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- Exhibit A** Proposed New, Revised, and Retired Definitions for Inclusion in the *Glossary of Terms used in NERC Reliability Standards*
- Exhibit B** Implementation Plan
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- Exhibit D** Summary of Development and Complete Record of Development
- Exhibit E** Standard Drafting Team Roster, Project 2022-01 Reporting ACE Definition and Associated Terms

Reserve – Spinning; Operating Reserve – Supplemental; Overlap Regulation Service; Pseudo-Tie; Ramp Rate or Ramp; Regulation Service; Reportable Balancing Contingency Event (RBCE); Reporting Area Control Error (Reporting ACE); Reserve Sharing Group (RSG); Reserve Sharing Group Reporting ACE; Scheduled Frequency; Scheduled Net Interchange (NIs); Supplemental Regulation Service; Tie Line Bias (TLB); Time Error (TE); Time Error Correction (TEC);

- ***Retired Glossary Terms:*** Disturbance Control Standard; Net Interchange Schedule; Net Scheduled Interchange; Reportable Disturbance.

As discussed more fully in this filing, NERC developed the Proposed Glossary Terms through Project 2022-01 Reporting ACE Definition and Associated Terms. The primary purpose of this project was to improve the definition of Reporting Area Control Error (Reporting ACE), a term used in the Balancing and Control (BAL) family of Reliability Standards, to improve long-term average frequency performance as well as allow other Interconnections beyond the Western Interconnection the ability to pursue an automatic time error correction control methodology or similar functions. If average Frequency and Time Error were better controlled, there would be less need for manual Time Error Corrections, thereby improving reliability. In revising the definition of Reporting ACE, the Project 2022-01 drafting team identified the opportunity to further clarify and improve upon related NERC Glossary terms, many of which have not been revised since their initial approval by the Commission in Order No. 693 in 2007,⁵ and to retire NERC Glossary terms that are or will no longer be used following Commission approval of the new and modified terms. The NERC Board of Trustees adopted the Proposed Glossary Terms, with the exception of the term Automatic Generation Control (AGC), on February 15, 2024. The Standards Committee approved errata in the definition of the term Automatic Generation Control (AGC) on February 21, 2024.

⁵ *Mandatory Reliability Standards for the Bulk-Power System*, Order No. 693, 118 FERC ¶ 61,218 (2007) [hereinafter Order No. 693].

NERC requests that the Commission approve the Proposed Glossary Terms, as shown in **Exhibit A**, as just, reasonable, not unduly discriminatory or preferential, and in the public interest. NERC also requests that the Commission approve the proposed implementation plan (**Exhibit B**), under which all of the Proposed Glossary Terms would become effective twelve (12) months following regulatory approval.

As required by Section 39.5(a)⁶ of the Commission's regulations, this petition presents the technical basis and purpose of the Proposed Glossary Terms, along with relevant background (**Sections II and III**), a demonstration that the Proposed Glossary Terms meet the criteria identified by the Commission in Order No. 672⁷ (**Exhibit C**), and a summary of the standard development history (**Exhibit D**).

⁶ 18 C.F.R. § 39.5(a).

⁷ The Commission specified in Order No. 672 certain general factors it would consider when assessing whether a particular Reliability Standard is just and reasonable. *Rules Concerning Certification of the Electric Reliability Organization; and Procedures for the Establishment, Approval, and Enforcement of Electric Reliability Standards*, Order No. 672, 114 FERC ¶ 61,104, at P 262, 321-37 [hereinafter Order No. 672], *order on reh'g*, Order No. 672-A, 114 FERC ¶ 61,328 (2006).

I. NOTICES AND COMMUNICATIONS

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II. BACKGROUND

A. Regulatory Framework

By enacting the Energy Policy Act of 2005,⁹ Congress entrusted the Commission with the duties of approving and enforcing rules to ensure the reliability of the Bulk-Power System (“BPS”), and with the duties of certifying an ERO that would be charged with developing and enforcing mandatory Reliability Standards, subject to Commission approval. Section 215(b)(1)¹⁰ of the FPA states that all users, owners, and operators of the BPS in the United States will be subject to Commission-approved Reliability Standards. Section 215(d)(5)¹¹ of the FPA authorizes the Commission to order the ERO to submit a new or modified Reliability Standard. Section 39.5(a)¹² of the Commission’s regulations requires the ERO to file with the Commission for its approval each new Reliability Standard that the ERO proposes should become mandatory and

⁸ Persons to be included on the Commission’s service list are indicated with an asterisk. NERC requests waiver of 18 C.F.R. § 385.203(b) to permit the inclusion of more than two people on the service list.

⁹ 16 U.S.C. § 824o.

¹⁰ *Id.* § 824o(b)(1).

¹¹ *Id.* § 824o(d)(5).

¹² 18 C.F.R. § 39.5(a).

enforceable in the United States, and each modification to a Reliability Standard that the ERO proposes should be made effective.

The Commission is vested with the regulatory responsibility to approve Reliability Standards that protect the reliability of the BPS and to ensure that Reliability Standards are just, reasonable, not unduly discriminatory or preferential, and in the public interest. Pursuant to Section 215(d)(2) of the FPA¹³ and Section 39.5(c)¹⁴ of the Commission's regulations, the Commission will give due weight to the technical expertise of the ERO with respect to the content of a Reliability Standard.

B. NERC Reliability Standards Development Procedure

NERC develops Reliability Standards and definitions of terms used in Reliability Standards in accordance with Section 300 (Reliability Standards Development) of its Rules of Procedure and the NERC Standard Processes Manual.¹⁵ In its order certifying NERC as the Commission's ERO, the Commission found that NERC's rules provide for reasonable notice and opportunity for public comment, due process, openness, and a balance of interests in developing Reliability Standards,¹⁶ and thus satisfy several of the Commission's approval criteria.¹⁷ The development process is open to any person or entity with a legitimate interest in the reliability of the BPS. NERC considers the comments of all stakeholders. Stakeholders must approve, and the

¹³ 16 U.S.C. § 824o(d)(2).

¹⁴ 18 C.F.R. § 39.5(c)(1).

¹⁵ The NERC Rules of Procedure, including Appendix 3A, NERC Standard Processes Manual, are available at <https://www.nerc.com/AboutNERC/Pages/Rules-of-Procedure.aspx>.

¹⁶ *N. Am. Elec. Reliability Corp.*, 116 FERC ¶ 61,062 at P 250 (2006).

¹⁷ Order No. 672, *supra* note 7, at PP 268, 270.

NERC Board of Trustees must adopt, a new or revised Reliability Standard or definition before NERC submits the Reliability Standard or definition to the Commission for approval.¹⁸

C. *Glossary of Terms used in NERC Reliability Standards*

NERC maintains a comprehensive, up-to-date document on its web site that reflects all defined terms used in Reliability Standards that have been adopted by the NERC Board of Trustees: the *Glossary of Terms used in NERC Reliability Standards* (“Glossary” or “NERC Glossary”). The NERC Glossary reflects the status of Commission approval, including approval and effective dates, and contains links to the archive of the development of each definition. In Order No. 693 approving the first mandatory and enforceable Reliability Standards and defined terms, the Commission highlighted the role the NERC Glossary plays in promoting a consistent and clear understanding of terms used throughout the Reliability Standards:

The terms defined in the glossary have an important role in establishing consistent understanding of the Reliability Standards Requirements and implementation. The approval of the glossary will provide continuity in application of the glossary definitions industry-wide, and will eliminate multiple interpretations of the same term or function, which may otherwise create miscommunication and jeopardize Bulk-Power System reliability.¹⁹

The Commission further stated, “The glossary should be updated through the Reliability Standards development process whenever a new or revised Reliability Standard that includes a new defined term is approved, or as needed to clarify compliance activities.”²⁰

¹⁸ As discussed in Section 12.0 of the *NERC Standard Processes Manual*, errors in Reliability Standards or definitions may be corrected if the Standards Committee agrees “that the correction of the error does not change the scope or intent of the associated Reliability Standard, and agrees that the correction has no material impact on the end users of the Reliability Standard.” The NERC Board of Trustees has resolved to concurrently approve any errata approved by the Standards Committee under that section.

¹⁹ Order No. 693, *supra* note 5, at P 1893.

²⁰ *Id.*

Since the NERC Glossary was first approved in 2007, the Commission has approved new defined terms and revisions to the definitions of existing terms developed through the standard development process, as well as the retirement of previously effective terms and definitions. While defined terms typically accompany the new or revised Reliability Standards that will use those terms, NERC has on occasion proposed new or revised defined terms independent of a proposed Reliability Standard.²¹

D. Procedural History of Reporting ACE Definition

In 2014, NERC proposed a revised version of the BAL-001 Reliability Standard, Reliability Standard BAL-001-2, along with four definitions for inclusion in the NERC Glossary: Regulation Reserve Sharing Group, Reserve Sharing Group Reporting ACE, Reporting ACE, and a revised definition of the term Interconnection.²² In NERC's petition, NERC explained that NERC proposed to include a WECC regional variance from Reliability Standard BAL-001-1 into Reliability Standard BAL-001-2 through the definition of Reporting ACE; the proposed definition of Reporting ACE included the Automatic Time Error Correction equation in use in the Western Interconnection.

In Order No. 810, issued in 2015, the Commission approved Reliability Standard BAL-001-2 and the proposed terms, but directed further revisions to the definition of Reporting ACE.²³ Specifically, the Commission directed NERC to revise the definition of Reporting ACE to "include the 'Lmax' upper payback limit and the bounds of that upper payback limit prior to the effective

²¹ See, e.g., Petition of NERC for Approval of Revised Definitions of Terms used in Reliability Standards, Docket No. RD16-3-000 (Dec. 7, 2015).

²² Petition of NERC for Approval of Reliability Standard BAL-001-2, Docket No. RM14-10-000 (Apr. 2, 2014).

²³ *Real Power Balancing Control Performance Reliability Standard*, Order No. 810, 151 FERC ¶ 61,048 at P 43 (2015).

date of Reliability Standard BAL-001-1.”²⁴ The Commission agreed with a comment in the underlying proceeding that the Lmax upper payback limit and the bounds of that limit were necessary for the Western Interconnection.²⁵

In 2016, the Commission approved the currently effective definition of Reporting ACE, along with the currently effective definitions for five of the components of Reporting ACE: Actual Frequency, Actual Net Interchange (NIA), Scheduled Net Interchange (NIs), Interchange Meter Error (IME), and Automatic Time Error Correction (ATEC).²⁶ As explained further in NERC’s 2016 petition for approval of these definitions,²⁷ NERC separated the components of Reporting ACE from the definition of Reporting ACE to reduce the potential confusion associated with definitions embedded within a term. The definitions, taken together, also addressed the Commission’s directive from Order No. 810 by including the directed values in the definition of Automatic Time Error Correction, which was incorporated into the definition of Reporting ACE.

III. JUSTIFICATION FOR APPROVAL

In this petition, NERC submits for Commission approval two new, thirty modified, and four retired definitions of terms for inclusion in the NERC Glossary. The Proposed Glossary Terms are as follows:

- ***New Glossary Terms:*** ACE Diversity Interchange, Inadvertent Interchange Management (IIM);
- ***Revised Glossary Terms:*** Actual Net Interchange (NIA); Area Control Error (ACE); Automatic Generation Control (AGC); Automatic Time Error Correction (ATEC); Balancing Authority Area (BAA); Balancing Contingency Event (BCE); Control Performance Standard (CPS); Disturbance; Dynamic Interchange Schedule or Dynamic Schedule; Frequency Bias Setting (FBS); Frequency Error; Implemented Interchange; Inadvertent Interchange; Interchange Meter Error (IME); Operating

²⁴ *Id.*

²⁵ *Id.* at PP 31, 43.

²⁶ *N. Am. Elec. Reliability Corp.*, Docket No. RD16-7-000 (Jun. 23, 2016) (delegated letter order).

²⁷ *See Petition of NERC for Approval of Six NERC Glossary Definitions and Request for Shortened Response Period and Expedited Action*, Docket No. RD16-7-000 (Jun. 2, 2016) (errata filed Jun. 3, 2016).

Reserve – Spinning; Operating Reserve – Supplemental; Overlap Regulation Service; Pseudo-Tie; Ramp Rate or Ramp; Regulation Service; Reportable Balancing Contingency Event (RBCE); Reporting Area Control Error (Reporting ACE); Reserve Sharing Group (RSG); Reserve Sharing Group Reporting ACE; Scheduled Frequency; Scheduled Net Interchange (NIs); Supplemental Regulation Service; Tie Line Bias (TLB); Time Error (TE); Time Error Correction (TEC);

- ***Retired Glossary Terms:*** Disturbance Control Standard; Net Interchange Schedule; Net Scheduled Interchange; Reportable Disturbance.

The Proposed Glossary Terms define, or are related to, the components of Reporting Area Control Error, or Reporting ACE. Reporting ACE is one of the most important single measurements available to indicate the current state of the responsible entity’s contribution to Interconnection reliability. Reporting ACE is also used as an integral part of the measurements used in Reliability Standards BAL-001-2 and BAL-002-3. The technical requirements associated with the parameters used in the calculation of Reporting ACE are specified in Reliability Standards BAL-003-2 and BAL-005-1.

Over time, the NERC Reliability and Security Technical Committee Resources Subcommittee has identified a large amount of accumulated time error in the Eastern Interconnection.²⁸ The Resources Subcommittee investigated acceptable methods for correction in alignment with current Reliability Standards, reliability guidelines, and reference documents. Based on its review, the Subcommittee recommended that the Reporting ACE definition, which presently refers to Automatic Time Error Correction as a component only in the Western Interconnection, be modified to accommodate any Interconnection that has an approved automatic time error correction methodology or other process to control inadvertent accumulation. The Proposed Glossary Terms, including the revised definition of Reporting ACE, would advance

²⁸ The Resources Subcommittee has included this topic as a standing agenda item on its meeting agendas. Several surveys and an actual pause on unilateral inadvertent payback performed in October 2023 confirmed the issue.

reliability by implementing this recommendation and allowing for any Interconnection to implement an approved automatic time error correction methodology or other process to control inadvertent accumulation, as well as by improving clarity regarding the components that make up the Area Control Error used for reporting. Further, the revised definition of Reporting ACE, with the new incorporated definition of Inadvertent Interchange Management, resolves a conflict in the current definition of Reporting ACE with the Western Interconnection's Automatic Time Error Correction process.

NERC developed the Proposed Glossary Terms under Project 2022-01 Reporting ACE Definition and Associated Terms. The Proposed Glossary Terms were developed in an open and fair manner and in accordance with the Commission-approved development process for Reliability Standards and definitions of terms used in Reliability Standards, a process which included public comment and ballot periods. Following approval by the ballot body, the NERC Board of Trustees adopted the Proposed Glossary Terms, with the exception of the proposed revised term Automatic Generation Control (AGC), on February 15, 2024. The Standards Committee approved errata to the definition of the term Automatic Generation Control (AGC) on February 21, 2024. The summary of development and complete record of development for the Proposed Glossary Terms is attached to this petition as **Exhibit D**.

As discussed in **Exhibit C**, the Proposed Glossary Terms meet the Commission's criteria for approval in Order No. 672 and, because they would improve clarity and advance reliability in the currently effective Reliability Standards in which they are used, Commission approval of the Proposed Glossary Terms would be just, reasonable, not unduly discriminatory, and in the public interest. NERC respectfully requests that the Commission approve the Proposed Glossary Terms,

to become effective in accordance with the proposed implementation plan discussed in **Section IV.**

A. Proposed Definition of Reporting ACE

As noted above, the Commission approved the currently effective definition of Reporting ACE in 2016.²⁹ In 2022, NERC initiated Project 2022-01 Reporting ACE Definition and Associated Terms to allow all Interconnections to implement an automated time error correction process and to revise terms for consistency and clarity. In undertaking this work the standard drafting team reviewed all Reliability Standards and defined terms using the terms under review; in addition, the standard drafting team reviewed technical guidelines and reference documents. To meet its charge, NERC proposes a revised definition of Reporting ACE, two new terms for inclusion in the revised definition of Reporting ACE, and refinements and corrections to the definitions of the components of Reporting ACE, as discussed below.

NERC proposes the following revised definition of Reporting Area Control Error (Reporting ACE), shown in blackline to the currently effective definition below:

Reporting Area Control Error (Reporting ACE)

The scan rate values of a Balancing Authority Area's (~~BAA~~) Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management ~~includes the difference between the Balancing Authority Area's Net Actual Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction(ATEC).~~ Reporting ACE is calculated as follows:

$$\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$$

~~Reporting ACE is calculated in the Western Interconnection as follows:~~

$$\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{IM,ATEC}$$

²⁹ *N. Am. Elec. Reliability Corp.*, Docket No. RD16-7-000 (Jun. 23, 2016) (delegated letter order).

Where:

- NI_A = Actual Net Interchange.
- NI_S = Scheduled Net Interchange.
- B = Frequency Bias Setting.
- F_A = Actual Frequency.
- F_S = Scheduled Frequency.
- IME = Interchange Meter Error.
- ~~I_{ATEC} = Automatic Time Error Correction~~ I_{IM} = Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.)
 - In the Western Interconnection this term is I_{ATEC}

All NERC Interconnections operate using the principles of ~~Tie-line~~ Tie Line Bias (TLB) ~~C~~control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE ~~equation~~ that is(are) implemented for all BAAs in ~~on~~ an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:

1. ~~All~~ Each individual portions of the Interconnection ~~are~~ is included in exactly one BAA so that the sum of all BAAs' generation, HLoad, and losses is the same as total Interconnection generation, HLoad, and losses;
2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times.; This includes effects of ACE Diversity Interchange (ADI) implementations;
3. The use of a common Scheduled Frequency ~~FS~~ for all BAAs at all times; and,
4. Excludes metering or computational errors. (The inclusion and use of the ~~IME~~ IME term corrects for known metering or computational errors.)

The proposed definition of Reporting ACE would represent an improvement upon the currently effective definition by correcting grammar and capitalization of terms, and by replacing the general and Western Interconnection specific calculations of Reporting ACE with a single

calculation that would apply across all Interconnections. The calculation for the Western Interconnection would still reflect Automatic Time Error Correction, a formula that is only applicable in the Western Interconnection; however, the calculation would also accommodate any other regional procedure for managing inadvertent interchange and correcting time error, should one be created.

B. Proposed Definition of Area Control Error

NERC proposes revisions to the definition of Area Control Error (ACE), which is a defined term used in the definition of Reporting ACE.³⁰ NERC proposes to revise this definition so that it is no longer limited to Balancing Authorities and may include entities such as Reserve Sharing Groups. NERC also proposes to update terms to reflect current NERC defined terms, add newly proposed terms related to the term Reporting ACE, and add a clarifying statement to refer to the term Reporting ACE for compliance purposes. The proposed definition revises the currently effective definition as follows:

Area Control Error (ACE)

~~The instantaneous difference between an Balancing Authority's entity's ~~net~~ Actual Net Interchange (NIA) and Scheduled Net Interchange (NIs), taking into account the effects of Frequency Bias, of correction for meter error, and of ~~Automatic Time Error Correction (ATEC)~~ Inadvertent Interchange Management (IIM) if operating in the IIM ATEC mode. For compliance usage, refer to the term Reporting ACE. ATEC is only applicable to Balancing Authorities in the Western Interconnection.~~

³⁰ The Commission approved the currently effective definition of Area Control Error in 2013. *N. Am. Elec. Reliability Corp.*, Docket No. RD13-11-000 (Oct. 16, 2013) (delegated letter order).

C. Proposed Definitions of Components of Reporting ACE

NERC proposes revisions to the definitions of several terms that comprise the Reporting ACE calculation to correct capitalization, grammar, and reflect current terminology and practice, as described below:

- **Actual Net Interchange (NIA):**³¹ revised to correct capitalization of defined terms as follows: “The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all ~~A~~adjacent Balancing Authority ~~a~~Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.”
- **Scheduled Net Interchange (NIs):**³² added acronym to definition.
- **Frequency Bias Setting (FBS):**³³ revised to indicate that this value must be a negative number, eliminated language regarding practice, and updated to reflect current terminology, as follows: “A negative number either fixed or variable, ~~usually~~ expressed in MW/0.1 Hz, included in a Balancing Authority’s ~~Area Control Error equation Reporting ACE~~ to account for the Balancing Authority’s ~~inverse~~ Frequency Response ~~contribution~~ to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.”
- **Actual Frequency (F_A):**³⁴ *no changes proposed.*
- **Scheduled Frequency (F_S):**³⁵ added resolution to the term, as Time Error corrections are normally performed in +/- .02 Hz increments, and capitalized defined terms, as follows: “60.00 Hertz, except during a ~~t~~Time Error ~~e~~Correction.”

³¹ The Commission approved the currently effective definition of Actual Net Interchange (NIA) in 2016, along with the definition of Reporting ACE and related terms. *N. Am. Elec. Reliability Corp.*, Docket No. RD16-7-000 (Jun. 23, 2016) (delegated letter order).

³² The Commission approved the currently effective definition of Scheduled Net Interchange (NIs) in 2016, along with Reporting ACE and related terms. *See id.*

³³ The Commission approved the currently effective definition of Frequency Bias Setting (FBS) in 2014. *Frequency Response and Frequency Bias Setting Reliability Standard*, Order No. 794, 146 FERC ¶ 61,024 (2014).

³⁴ The Commission approved the currently effective definition of Actual Frequency (F_A) in 2016, along with Reporting ACE and related terms. *N. Am. Elec. Reliability Corp.*, Docket No. RD16-7-000 (Jun. 23, 2016) (delegated letter order).

³⁵ The Commission approved the currently effective definition of Scheduled Frequency (F_S) in 2007. Order No. 693, *supra* note 5.

- **Interchange Meter Error (IME):**³⁶ eliminated the word “calculation” for consistency, as follows: “A term used in ~~the~~ Reporting ACE ~~calculation~~ to compensate for data or equipment errors affecting any other components of ~~the~~ Reporting ACE ~~calculation~~.”

As discussed above, NERC proposes to add a new component to the calculation of Reporting ACE, Inadvertent Interchange Management, to allow for Interconnections other than the Western Interconnection to implement time error and inadvertent interchange correction procedures. NERC proposes to define the new term Inadvertent Interchange Management, referenced in the proposed definition of Reporting ACE described above, as follows:

Inadvertent Interchange Management (I_{IM})

A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The I_{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.

In the proposed and currently effective definitions of Reporting ACE, Automatic Time Error Correction (ATEC) refers to the component of the Reporting ACE equation for the Western Interconnection.³⁷ NERC proposes the following revised definition, shown in blackline to the currently effective definition below:

Automatic Time Error Correction (ATEC)

The addition of a component ~~to~~, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct accumulated Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.

³⁶ The Commission approved the currently effective definition of Interchange Meter Error (IME) in 2016, along with Reporting ACE and related terms. *N. Am. Elec. Reliability Corp.*, Docket No. RD16-7-000 (Jun. 23, 2016) (delegated letter order).

³⁷ The Commission approved the currently effective definition of Automatic Time Error Correction (ATEC) in 2013. *N. Am. Elec. Reliability Corp.*, Docket No. RD13-11-000 (Oct. 16, 2013) (delegated letter order).

$$I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$$

when operating in Automatic Time Error Correction Mode.

The absolute value of I_{ATEC} shall not exceed L_{Max} .

I_{ATEC} shall be zero when operating in any other AGC mode.

- L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2*|B_i|$ and L_{10} ; i.e., $0.2*|B_i| \leq L_{max} \leq L_{10}$.
- $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$
- ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10} , is the same for every Balancing Authority Area within an Interconnection.
- $Y = B_i/B_s$.
- H = Number of hours used to pay_back primary inadvertent interchange energy. The value of H is set to 3.
- B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz).
- B_s = Sum of the ~~minimum~~ Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036 Hz or less than 59.964 Hz.
- Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{actual} - B_i * \Delta TE/6) * BA_{Island}$
- BA_{Island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected.
- II_{actual} is the hourly Inadvertent Interchange for the last hour.
- ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where:

$$\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - (t)*(TE_{offset})$$
- TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks.
- t is the number of minutes spent performing ~~of~~ manual Time Error Correction that occurred during each~~the~~ hour.
- TE_{offset} is 0.000 or +0.020 or -0.020.
- PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where:

$$PII_{accum}^{on/off\ peak} = \text{last period's } PII_{accum}^{on/off\ peak} + PII_{hourly}$$

The proposed definition of Automatic Time Error Correction (ATEC) represents an improvement upon the currently effective definition in the following ways. First, the standard

drafting team added an islanding term, “BA_{Island}”, to reflect that a Balancing Authority that has lost synchronism with the remainder of the interconnection cannot have an impact on the interconnection’s Time Error. Second, the standard drafting team amended the method of allocating Primary Inadvertent Interchange to use actual Bias settings to reflect each Balancing Authority’s share of Time Error impact more accurately. Third, the standard drafting team made several conforming and correction changes throughout. The proposed definition advances a more accurate calculation of Automatic Time Error Correction and provides for increased clarity and consistency.

D. Proposed Definition of ACE Diversity Interchange

NERC proposes a new defined term in the revised definition of Reporting ACE, ACE Diversity Interchange, in the second of the four criteria that define a valid alternative to the Reporting ACE equation. This criterion currently provides: “2. The algebraic sum of all BAAs’ Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs’ Actual Net Interchange values is equal to zero at all times.” NERC proposes to improve upon this aspect of the Reporting ACE definition by clarifying that this may include the effects of implementing ACE Diversity Interchange, which NERC proposes to define as follows:

ACE Diversity Interchange (ADI)

A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.

ACE Diversity Interchange is a frequency neutral form of Area Control Error exchange used by participating Balancing Authorities to achieve reductions in their generation control and Reporting ACE. Current implementations of ACE Diversity Interchange use offsets to either

Actual Net Interchange or Scheduled Net Interchange Area Control Error components to create an Area Control Error value closer to zero for each participant. NERC has provided guidance for implementing ACE Diversity Interchange processes;³⁸ however, the standard drafting team noted that not all participants may choose to include ACE Diversity Interchange in their Reporting ACE, which would result in the sum of Reporting ACE not being equal to zero for that Interconnection. To address this concern, the standard drafting team proposed a new definition of ACE Diversity Interchange, as provided above, and included a clarification note in the proposed revised definition of Reporting ACE to reference this term so that Reporting ACE accounts appropriately for ACE Diversity Interchange implementations.

E. Proposed Definitions of Related Terms

NERC proposes a series of revisions to other NERC Glossary terms related to the calculation of Reporting ACE, defined terms used directly or indirectly in the definition of Reporting ACE, or terms that refer to ACE or Reporting ACE. Most of these terms have not been revised since being approved by the Commission in Order No. 693 in 2007. The proposed changes to these terms are summarized below:

- **Automatic Generation Control (AGC):**³⁹ made minor grammatical corrections (errata) as follows: “A process designed and used to adjust a Balancing Authority Area’s Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.”
- **Balancing Authority Area (BAA):**⁴⁰ added acronym.

³⁸ NERC, Reliability Guideline: Area Control Error Diversity Interchange Process – version 3 (Oct. 2021), available at https://www.nerc.com/comm/RSTC_Reliability_Guidelines/Reliability_Guideline_Area_Control_Error_Diversity_Interchange_Process%E2%80%93Version_3.pdf.

³⁹ The Commission approved the currently effective definition of Automatic Generation Control (AGC) in 2017. *Balancing Authority Control, Inadvertent Interchange, and Facility Interconnection Reliability Standards*, Order No. 836, 160 FERC ¶ 61,070 (2017).

⁴⁰ The Commission approved the currently effective definition of Balancing Authority Area in 2007. Order No. 693, *supra* note 5.

- **Balancing Contingency Event (BCE):**⁴¹ added acronym, revised internal references to the term “ACE” to “Reporting ACE” for consistency and to reflect current terminology.
- **Control Performance Standard (CPS):**⁴² replaced current definition, which refers to a specific standard (“The reliability standard that sets the limits of a Balancing Authority’s Area Control Error over a specified time period”), with a more generally applicable definition that refers to the methodology. (“Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance and Scheduled Frequency.”)
- **Disturbance:**⁴³ revised internal references to the term “ACE” to “Reporting ACE” for consistency and to reflect current terminology.
- **Dynamic Interchange Schedule or Dynamic Schedule:**⁴⁴ revised internal reference to “control ACE equations” to “Reporting ACE” for consistency and to reflect current terminology, and eliminated a parenthetical (“or alternate control processes”) that has no known application.
- **Frequency Error:**⁴⁵ corrected grammar and capitalization of defined terms.
- **Inadvertent Interchange:**⁴⁶ updated to reflect current NERC Glossary terms and correct acronyms for Actual Net Interchange and Scheduled Net Interchange (NIA – NIS).
- **Implemented Interchange:**⁴⁷ revised internal reference to the term “Area Control Error equation” to “Reporting ACE” for consistency and to reflect current terminology.
- **Operating Reserve – Spinning:**⁴⁸ corrected capitalization of the phrase “Recovery Period” which is not a NERC Glossary term.

⁴¹ The Commission approved the currently effective definition of Balancing Contingency Event in 2017. *Disturbance Control Standard – Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard*, Order No. 835, 158 FERC ¶ 61,030 (2017).

⁴² The Commission approved the currently effective definition of Control Performance Standard in 2007. Order No. 693, *supra* note 5.

⁴³ The Commission approved the currently effective definition of Disturbance in 2007. Order No. 693, *supra* note 5.

⁴⁴ The Commission approved the currently effective definition of Dynamic Interchange Schedule or Dynamic Schedule in 2014. *N. Am. Elec. Reliability Corp.*, Docket No. RD14-4-000 (Jun. 30, 2014) (delegated letter order).

⁴⁵ The Commission approved the currently effective definition of Frequency Error in 2007. Order No. 693, *supra* note 5.

⁴⁶ The Commission approved the currently effective definition of Inadvertent Interchange in 2007. Order No. 693, *supra* note 5.

⁴⁷ The Commission approved the currently effective definition of Implemented Interchange in 2007. Order No. 693, *supra* note 5.

⁴⁸ The Commission approved the currently effective definition of Operating Reserve-Spinning in 2007. Order No. 693, *supra* note 5.

- **Operating Reserve – Supplemental:**⁴⁹ corrected capitalization of the phrase “Recovery Period,” which is not a NERC Glossary term.
- **Overlap Regulation Service:**⁵⁰ updated to reflect correct use of defined terms and revise internal reference to “ACE” to “Reporting ACE” for consistency.
- **Pseudo-Tie:**⁵¹ revised internal reference to “Reporting ACE equation” to “Reporting ACE” for consistency, and eliminated a parenthetical (“or alternate control processes”) that has no known application.
- **Ramp Rate or Ramp:**⁵² capitalized the term Interchange Schedule within the definition.
- **Regulation Service:**⁵³ revised internal reference to the term “ACE” to “Reporting ACE” for consistency and to reflect current terminology, and replaced the phrase “Regulation Service” in definition with “corrective response” to avoid using the defined term within the definition.
- **Reportable Balancing Contingency Event (RBCE):**⁵⁴ revised internal reference to the term “ACE” to “Reporting ACE” for consistency and to reflect current terminology, add acronym for the phrase Most Severe Single Contingency (MSSC), and move the provision regarding reducing the 80% threshold from subpart (ii) to subpart (i) for readability.
- **Reserve Sharing Group Reporting ACE:**⁵⁵ revised internal reference to the term “ACE” to “Reporting ACE” for consistency and to reflect current terminology.
- **Supplemental Regulation Service:**⁵⁶ revised internal reference to the term “ACE” to “Reporting ACE” for consistency and to reflect current terminology, and capitalized defined term “Regulation Service.”

⁴⁹ The Commission approved the currently effective definition of Operating Reserve-Supplemental in 2007. Order No. 693, *supra* note 5.

⁵⁰ The Commission approved the currently effective definition of Overlap Regulation Service in 2007. Order No. 693, *supra* note 5.

⁵¹ The Commission approved the currently effective definition of Pseudo-Tie in 2017. *Balancing Authority Control, Inadvertent Interchange, and Facility Interconnection Reliability Standards*, Order No. 836, 160 FERC ¶ 61,070 (2017).

⁵² The Commission approved the currently effective definition of Ramp Rate or Ramp in 2007. Order No. 693, *supra* note 5.

⁵³ The Commission approved the currently effective definition of Regulation Service in 2007. Order No. 693, *supra* note 5.

⁵⁴ The Commission approved the currently effective definition of Reportable Balancing Contingency Event in 2017. *Disturbance Control Standard – Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard*, Order No. 835, 158 FERC ¶ 61,030 (2017).

⁵⁵ The Commission approved the currently effective definition of Reserve Sharing Group Reporting ACE in 2017, in Order No. 835. *See id.*

⁵⁶ The Commission approved the currently effective definition of Supplemental Regulation Service in 2007. Order No. 693, *supra* note 5.

- **Tie Line Bias (TLB):**⁵⁷ capitalized defined term “Frequency Error” within definition.
- **Time Error (TE):**⁵⁸ added acronym to definition and made minor grammatical change to definition.
- **Time Error Correction (TEC):**⁵⁹ added word “manual” before “offset” to indicate that this process is not implemented automatically; minor grammatical and wording changes; capitalized term “Scheduled Frequency.”

Please refer to Exhibit A-2 for a redline showing the revisions to the currently effective terms (excluding Automatic Generation Control (AGC), discussed above).

F. Proposed Definition of Reserve Sharing Group

NERC proposes to revise the definition of Reserve Sharing Group, which is an applicable entity in Reliability Standards BAL-001-2, BAL-002-3, and BAL-002-WECC-3, as well as protection system maintenance Reliability Standard PRC-005-6. The proposed changes to the currently effective definition⁶⁰ are modest in nature, as demonstrated below:

Reserve Sharing Group (RSG)

A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a Reportable Balancing Contingency

⁵⁷ The Commission approved the currently effective definition of Tie Line Bias in 2007. Order No. 693, *supra* note 5.

⁵⁸ The Commission approved the currently effective definition of Time Error in 2007. Order No. 693, *supra* note 5.

⁵⁹ The Commission approved the currently effective definition of Time Error Correction in 2007. Order No. 693, *supra* note 5.

⁶⁰ The Commission approved the currently effective definition of Reserve Sharing Group in 2016 as part of a series of revisions to align terms used in the NERC Glossary and NERC Rules of Procedure. *See N. Am. Elec. Reliability Corp.*, RD16-3-000 (Jan. 21, 2016) (delegated letter order).

~~Event disturbance control performance~~, the areas become a Reserve Sharing Group.

The capitalization of the phrase “Operating Reserves” is intended to accurately reflect current terminology. The replacement of the phrase “disturbance control performance” with “recovery from a Reportable Balancing Contingency Event” is intended to reflect better the terminology used in Reliability Standard BAL-002-3.

Because the Reserve Sharing Group is also a functional registration under the NERC Rules of Procedure,⁶¹ NERC will seek Commission approval for conforming changes in the NERC Rules of Procedure in a separate proceeding to maintain consistency among terms used in NERC documents.

G. Proposed Terms for Retirement

NERC proposes to retire four “version zero” terms from the NERC Glossary, initially approved by the Commission in 2007 in Order No. 693,⁶² as these definitions are no longer used, or will no longer be needed following the effective date of the definitions for the new and revised NERC Glossary terms discussed earlier in this filing:

- **Disturbance Control Standard (DCS):** currently defined as, “The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.”
- **Net Interchange Schedule:** currently defined as, “The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.”
- **Net Scheduled Interchange:** currently defined as, “The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.”
- **Reportable Disturbance:** currently defined as, “Any event that causes ACE change greater than or equal to 80% of a Balancing Authority’s or reserve sharing group’s most

⁶¹ See NERC Rules of Procedure Appendix 5B, Statement of Compliance Registry Criteria, definition of Reserve Sharing Group, available at <https://www.nerc.com/AboutNERC/Pages/Rules-of-Procedure.aspx>.

⁶² Order N. 693, *supra* note 5.

severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.”

Retirement of these terms is appropriate due to the discontinuation of their use and would provide clarity to entities regarding terms that are used in currently enforceable NERC Reliability Standards or Glossary terms.

IV. EFFECTIVE DATE OF THE PROPOSED GLOSSARY TERMS

NERC respectfully requests that the Commission approve the implementation plan attached to this petition as **Exhibit B**. The proposed implementation plan provides that the Proposed Glossary Terms, including the new, revised, and retired definitions, would become effective on the first day of the first calendar quarter that is twelve (12) months after applicable regulatory approval. Significant revisions are proposed to the definitions of several terms, such as Area Control Error and Reporting Area Control Error – Reporting ACE, that may require entities to update their documentation and related compliance materials. Other revisions are clarifying, modest, or non-substantive in nature. The standard drafting team also proposes revisions to the definitions of certain terms so that less-used defined terms used within those terms may be retired. For ease of implementation and to avoid administrative burden, a twelve-month implementation period for all new, revised, and retired terms is proposed. With consideration to these factors, the proposed implementation timeline appropriately balances the urgency in the need to implement the standards against the time allowed for those who must comply to develop necessary procedures and other relevant capabilities.⁶³

⁶³ See Order No. 672, *supra* note 7, at P 333 (“In considering whether a proposed Reliability Standard is just and reasonable, the Commission will consider also the timetable for implementation of the new requirements, including how the proposal balances any urgency in the need to implement it against the reasonableness of the time

V. CONCLUSION

For the reasons set forth above, NERC respectfully requests that the Commission approve:

- The two new Glossary terms, as shown in **Exhibit A**;
- The 30 revised Glossary terms, including the 29 revised terms as shown in **Exhibit A** and the errata for the term Automatic Generation Control (AGC) discussed above;
- The retirement of four Glossary terms (Disturbance Control Standard, Net Interchange Schedule, Net Scheduled Interchange, Reportable Disturbance); and
- The implementation plan included in **Exhibit B**.

Respectfully submitted,

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March 8, 2024

allowed for those who must comply to develop the necessary procedures, software, facilities, staffing or other relevant capability.”).

Exhibit A

Proposed New, Revised, and Retired Definitions for Inclusion in the
Glossary of Terms used in NERC Reliability Standards

Exhibit A-1

Proposed New, Revised, and Retired Definitions for Inclusion in the
Glossary of Terms used in NERC Reliability Standards

Clean

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms

The drafting team (DT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC *Glossary* term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new *Glossary* terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange – (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	Standards <ul style="list-style-type: none"> BAL-003-2 BAL-004-WECC-3 Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC	Capitalized terms in definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interconnection are excluded from Actual Net Interchange.	Interconnection are excluded from Actual Net Interchange.		Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE	Included in Reporting ACE definition.		New definition

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		components to create an ACE value closer to zero for each participant.			
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an entity's Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (<i>purpose</i>) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (<i>current; see proposed revisions</i>); • Disturbance Control Standard (<i>current; proposed for retirement</i>); • Frequency Bias 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based Resource Performance Guideline</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE for compliance purposes.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Setting (<i>current; see proposed revisions</i>); <ul style="list-style-type: none"> • Reporting ACE (<i>current and proposed</i>) 		

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Automatic Time Error Correction – (ATEC)	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p>	<p>The addition of a component, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, “BA_{Island}” to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to reflect each Balancing</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$ • $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$ • ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. • $Y = B_i / B_s$. 	<p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> • L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. • $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ • ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. 			<p>Authority's share of Time Error impact more accurately.</p> <p>Capitalized NERC defined terms.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{actual} - B_i * \Delta TE/6)$ II_{actual} is the hourly Inadvertent Interchange for the last hour. 	<ul style="list-style-type: none"> $Y = B_i/B_s$. H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz. 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - (t) * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. • TE_{offset} is 0.000 or +0.020 or -0.020. • PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in 	<ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{\text{actual}} - B_i * \Delta TE/6) * BA_{\text{Island}}$ • BA_{Island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. II_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - t * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>MWh. An On-Peak and Off-Peak accumulation accounting is required, where:</p> $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	<p>Interconnection time monitor control center clocks.</p> <ul style="list-style-type: none"> t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the	Added Acronym	Standards <ul style="list-style-type: none"> BAL-003-2 COM-001-3 	Reliability Guideline: Operating Reserve Management	Added Acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Balancing Authority. The Balancing Authority maintains load-resource balance within this area.		<ul style="list-style-type: none"> • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	
Balancing Contingency	Any single event described in Subsections (A), (B), or	Any single event described in Subsections (A), (B), or	Standards BAL-002-3	Reliability Guideline	Added acronym and updated to

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
<p>Event – (BCE)</p>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s ACE.</p>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s Reporting ACE.</p>	<p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>correct NERC defined term.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>			
<p>Control Performance Standard – (CPS)</p>	<p>The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.</p>	<p>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment A) <p>Terms None</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document:</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		and Scheduled Frequency.		Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs</p> <p>Methods for Establishing IROs</p>	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Standard <i>(proposed for retirement)</i> ; <ul style="list-style-type: none"> Disturbance Monitoring Equipment 	Reliability Guideline: Generating Unit Operations During Complete Loss of Communications Inverter-Based Resource Performance Guideline Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018 Load Composition Guideline Reliability Guideline: Model Verification of Aggregate DER	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	RETIRE	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	RETIRE
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ control ACE equations (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting ACE	Standards <ul style="list-style-type: none"> BAL-002-WECC-3 INT-009-3 Terms Scheduled Net Interchange (NIS) <i>(current and proposed)</i>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Eliminated the word “equation” for consistency and eliminated the parenthetical which has no

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
					known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority’s Area Control Error equation to account for the Balancing Authority’s inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority’s Reporting ACE to account for the Balancing Authority’s Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the Actual Frequency and the Scheduled Frequency. ($F_A - F_S$)	<p>Standards:</p> <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 <p>Term:</p> <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	<p>Power Plant Model Verification and Testing for Synchronous Machines</p> <p>DER_A Model Parameterization</p>	
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled	The difference between the Balancing Authority's Actual Net Interchange and Scheduled Net Interchange.	<p>Standards BAL-004-WECC-3</p> <p>Terms</p>	Technical Reference Document: Balancing and	Updated to correct NERC defined terms and correct acronyms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interchange. (IA – IS)	(NI _A – NI _S)	<ul style="list-style-type: none"> Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	<p>Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The I _{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to	<p>Standards None</p> <p>Terms Reporting Ace (<i>proposed</i>)</p>		New term to NERC glossary

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		coordinate an inadvertent control methodology for an Interconnection.			
Interchange Meter Error - (IME)	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in Reporting ACE to compensate for data or equipment errors affecting any other components of Reporting ACE.	<p>Standards None</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word “calculation” for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction.	No changes	<p>Standards MOD-028-2</p> <p>Terms</p> <ul style="list-style-type: none"> Dynamic Interchange Schedule or Dynamic Schedule (<i>current and proposed</i>); Net Interchange 	Technical Reference Document: Balancing and Frequency Control Methods for Establishing IROLs	Team reviewed and determined no changes

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Schedule <i>(proposed for retirement);</i> <ul style="list-style-type: none"> • Net Scheduled Interchange <i>(proposed for retirement);</i> • Ramp Rate or Ramp <i>(see proposed revisions);</i> • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias <i>(current and</i> 		

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>proposed)</i>		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE .	Standards None Terms <ul style="list-style-type: none"> Reliability Adjustment; Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of:	The portion of Operating Reserve consisting of:	Standards BAL-002-WECC-3	Reliability Guideline: Operating Reserve	Utilized proper capitalization on terms that are not

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Terms None</p>	<p>Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	<p>NERC defined.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority's	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms None</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability	Update to the NERC defined term "Reporting ACE", "Actual Net Interchange", "Scheduled Net Interchange" and

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Authority's actual interchange, frequency response, and schedules into providing Balancing Authority's AGC/ACE equation.	Actual Net Interchange, Scheduled Net Interchange, and response to Interconnection Frequency Error.		Standards	"response to Interconnection Frequency Error", to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed; no changes determined	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology and grammatical changes to improve understanding.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE .	<p>Standards</p> <ul style="list-style-type: none"> BAL-005-1 BAL-002-WECC-3 INT-009-3 <p>Terms Actual Net Interchange (<i>current and proposed</i>)</p>	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the Interchange Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	<p>Standards None</p> <p>Terms Response Rate</p>	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications	Capitalized NERC defined terms within the definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Inverter-Based Resource Performance Guideline Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 <p>Terms</p> <ul style="list-style-type: none"> Overlap Regulation Service (<i>proposed</i>); 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	as specified by NERC for itself and the Balancing Authority for which it is providing the corrective response .	<ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>) 		
Reporting Area Control Error – (Reporting ACE)	<p>The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction_(ATEC). Reporting ACE is calculated as follows: Reporting ACE = (NI_A – NI_S) – 10B (F_A – F_S) – I_{ME}</p>	<p>The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows: Reporting ACE = (NI_A – NI_S) – 10B (F_A – F_S) – I_{ME} + I_{IM} Where:</p> <ul style="list-style-type: none"> NI_A = Actual Net Interchange. NI_S = Scheduled Net Interchange. 	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); Pre-Reporting Contingency Event ACE Value; Pseudo-Tie 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange</p>	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias</p>	<ul style="list-style-type: none"> • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.) <ul style="list-style-type: none"> ◦ In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie Line Bias (TLB)</p>	<p><i>(current and proposed)</i></p>	<p>Process</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>(TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total Interconnection generation, load, and loss; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to 	<p>control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses; 2. The algebraic sum of all BAAs' Scheduled Net 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>	<p>Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times. This includes effects of ACE Diversity Interchange (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity's Reporting ACE that results in a loss of MW output less than or equal to its Most	<p>Standards BAL-002-3</p> <p>Terms Contingency Event Recovery Period</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Area</p>	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Moved note on modification of

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of the Most Severe Single Contingency , or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.</p> <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW • Quebec – 500 MW 	<p>Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or</p> <p>(ii) the amount listed below for the applicable Interconnection.</p> <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW 		Control Error Diversity Interchange Process	80% threshold for readability.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority's or reserve sharing group's most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	<p>Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i></p> <p>Terms None</p>		Retire
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority's use in recovering from contingencies within the	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority's use in recovering from contingencies within the group. Scheduling energy	<p>Standards</p> <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 <p>Terms Reserve Sharing</p>	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term "Operating Reserves" to accurately reflect current terminology. Replaced "disturbance control performance"

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas become a Reserve Sharing Group.</p>	<p>from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a Reportable Balancing Contingency Event , the areas become a Reserve Sharing Group.</p>	<p>Group Reporting ACE</p>		<p>with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.</p>
<p>Reserve Sharing Group Reporting ACE</p>	<p>At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at</p>	<p>At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated</p>	<p>Standards BAL-001-2</p> <p>Terms None</p>		<p>Edited to accurately require a Reserve Sharing Group’s Reporting ACE to use the sum of the Balancing</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.			Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange - (NIs)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and	Added acronym	Standards None Terms	Technical Reference Document: Balancing and	Added acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange.</p>		<p>Reporting ACE (<i>current and proposed</i>)</p>	<p>Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
<p>Supplemental Regulation Service</p>	<p>A method of providing regulation service in which the Balancing Authority</p>	<p>A method of providing Regulation Service in which the Balancing Authority</p>	<p>Standards None</p>		<p>Update to the NERC defined term “Reporting</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	providing the regulation service receives a signal representing all or a portion of the other Balancing Authority’s ACE.	providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority’s Reporting ACE.	Terms None		ACE” to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection Frequency Error.	Standards BAL-004-WECC-3 Terms Reporting ACE		Added acronym and capitalized defined terms.
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. The difference	Standards None Terms <ul style="list-style-type: none">Automatic Time Error Correction	Technical Reference Document: Balancing and Frequency Control Technical Reference	Added acronym commonly used and minor grammatical change to definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	caused by the accumulation of Frequency Error over a given period.	is caused by the accumulation of Frequency Error over a given period.	<i>(current and proposed);</i> <ul style="list-style-type: none"> Time Error Correction <i>(current and proposed)</i> 	Document: Integrating Reporting ACE with the NERC Reliability Standards	
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s Scheduled Frequency to return the Interconnection’s Time Error to a predetermined range.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction <i>(current and proposed);</i> Scheduled Frequency <i>(proposed)</i> 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

Project 2022-01 Reporting ACE Definition and Associated Terms – Automatic Generation Control - (AGC) Errata | (Clean)

Retired, Modified, or Newly Proposed Definitions					
NERC Glossary Term	Currently Approved Definition	Proposed New or Revised	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Automatic Generation Control - (AGC)	A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	A process designed and used to adjust a Balancing Authority Area's Demand and resources to help maintain the Reporting ACE in that Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and revised</i>) 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	Team reviewed and determined minor grammar changes.

Exhibit A-2

Proposed New, Revised, and Retired Definitions for Inclusion in the
Glossary of Terms used in NERC Reliability Standards

Redline

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms

The drafting team (DT) is seeking comment on the following new or, modified, ~~or retired~~ terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC *Glossary* term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (~~CIP~~DT Proposed New or Revised) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or Glossary terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange (NI_A) - (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all a Adjacent Balancing Authority A areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	Standards <ul style="list-style-type: none"> BAL-003-2 BAL-004-WECC-3 None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC	Capitalized terms in definition.

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Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interconnection are excluded from Actual Net Interchange.	Interconnection are excluded from Actual Net Interchange.		Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled	Included in Reporting ACE definition.		New definition

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		Net Interchange ACE components to create an ACE value closer to zero for each participant.			
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an Balancing Authority's entity's net <u>Actual Net Interchange (NI_A)</u> and S <u>Scheduled Net Interchange (NI_S)</u> , taking into account the effects of Frequency Bias, of <u>of</u> correction for meter error, and of Automatic Time Error Correction (ATEC) <u>Inadvertent Interchange Management (IIM)</u> , if operating in the IIM <u>ATEC</u> -mode. For compliance usage, refer to the term Reporting ACE. ATEC is only applicable to	<p>Standards</p> <ul style="list-style-type: none"> BAL-002-3 (<i>purpose</i>) BAL-003-2 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Control Performance Standard (<i>current; see proposed revisions</i>); Disturbance Control Standard (<i>current; proposed for</i> 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		Balancing Authorities in the Western Interconnection.	<i>retirement</i>); <ul style="list-style-type: none"> • Frequency Bias Setting (<i>current</i>; see <i>proposed revisions</i>); • Reporting ACE (<i>current and proposed</i>) 	Resource Performance Guideline	for compliance purposes.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Automatic Time Error Correction — (ATEC)	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p>	<p>The addition of a component to, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct accumulated Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, “BA_{Island}” to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to- reflect</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$ $L_{10} = \frac{1.65 * \epsilon_{10}}{\sqrt{(-10B_i)(-10B_s)}}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority 	<p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, <u>i.e.</u> $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = \frac{1.65 * \epsilon_{10}}{\sqrt{(-10B_i)(-10B_s)}}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average <u>F</u>frequency <u>e</u>Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same 			<p>each Balancing Authority's share of Time Error impact more accurately.</p> <p>Capitalized NERC defined terms.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE/6)$ 	<p>for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • -H = Number of hours used to pay_back primary <u>i</u>nadvertent <u>i</u>nterchange energy. The value of H is set to 3. • -B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW/0.1 Hz). <u>For entities with a variable Frequency Bias, the annual time weighted average FBS based on the one minute values</u> 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - (t) * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. 	<p><u>used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</u></p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{\text{actual}} - B_i * \Delta TE / 6) * BA_{\text{island}}$ • BA_{island} = Binary term: <u>1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected.</u> • $-I_{\text{actual}}$ is the hourly Inadvertent Interchange for the last hour. • $-\Delta TE$ is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off-Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	$\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - (t) * (TE_{offset})$ <ul style="list-style-type: none"> TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. t is the number of minutes <u>spent performing of</u> manual Time Error Correction that occurred during <u>each</u> hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		$PI_{accum}^{on/offpeak} = \text{last period's } PI_{accum}^{on/offpeak} + PI_{hourly}$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The	Added Acronym	Standards <ul style="list-style-type: none"> BAL-003-2 COM-001-3 	Reliability Guideline: Operating Reserve Management	Added Acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Balancing Authority maintains load-resource balance within this area.		<ul style="list-style-type: none"> • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	
Balancing Contingency	Any single event described in Subsections (A), (B), or	Any single event described in Subsections (A), (B), or	Standards BAL-002-3	Reliability Guideline	Added acronym and updated to

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Event – (BCE)	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to</p>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s Reporting ACE.</p>	<p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	correct NERC defined term.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>the responsible entity's ACE.</p> <p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's <u>Reporting</u> ACE.</p>			
Control Performance Standard – (CPS)	The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.	<u>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient</u>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 (Attachment A) 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		secondary AGC control to maintain energy balance and Scheduled Frequency.	Terms None	Reference Document: Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	Standards <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 Terms	Reliability Guideline: Operating Reserve Management Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Disturbance Control Standard (<i>proposed for retirement</i>); Disturbance Monitoring Equipment 	<p>Methods for Establishing IROs</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018</p> <p>Load Composition Guideline</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	RETIRE	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	RETIRE
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an	Standards • BAL-002-WECC-3 • INT-009-3	Technical Reference Document: Integrating Reporting ACE with the NERC	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	the affected Balancing Authorities' control ACE equations (or alternate control processes).	Interchange Schedule in the affected Balancing Authorities' Reporting control ACE equations (or alternate control processes).	Terms Scheduled Net Interchange (NI _s) (<i>current and proposed</i>)	Reliability Standards	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A <u>negative</u> number either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error Reporting ACE equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection Frequency Error , and discourage response withdrawal through secondary control systems.	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms Reporting ACE (<i>current and proposed</i>)	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing Authority Area Footprint Change Tasks Technical Reference Document: Integrating	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reporting ACE with the NERC Reliability Standards	
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the A actual F frequency and the S scheduled # frequency. ($F_A - F_S$)	Standards: <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Term: <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>(proposed)</i>		
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. (IA – IS)	The difference between the Balancing Authority's Net Actual <u>Net</u> Interchange and Net Scheduled <u>Net</u> Interchange. (<u>NI_A</u> – <u>NI_S</u>)	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<u>I_ATEC</u>) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Reliability Guideline: Inadvertent Interchange	Updated to correct NERC defined terms and correct acronyms.
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	<u>A term used in Reporting ACE to allow for management of Inadvertent Interchange</u>	Standards None Terms		New term to NERC glossary

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<u>and correction of Time Error. The I_M value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.</u>	Reporting Ace (<i>proposed</i>)		
Interchange Meter Error - (IME)	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation .	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word "calculation" for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of	No changes	Standards MOD-028-2 Terms <ul style="list-style-type: none"> Dynamic Interchange 	Technical Reference Document: Balancing and Frequency Control Methods for	Team reviewed and determined no changes

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	power and energy between the Source and Sink Balancing Authorities involved in the transaction.		Schedule or Dynamic Schedule (<i>current and proposed</i>); <ul style="list-style-type: none"> • Net Interchange Schedule (<i>proposed for retirement</i>); • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling Entity; 	Establishing IROs	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias (<i>current and proposed</i>) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE Area Control Error equation.	Standards None Terms <ul style="list-style-type: none"> • Reliability Adjustment; • Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Operating Reserve – Supplemental	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Rrecovery pPeriod following the contingency event; or • Load fully removable from the system within the Disturbance Rrecovery pPeriod following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing	A method of providing R egulation S ervice in which the Balancing Authority providing the R egulation S ervice incorporates into it s its	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms	Technical Reference Document: Integrating Reporting ACE with the NERC	Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Authority’s actual interchange, frequency response, and schedules into providing Balancing Authority’s AGC/ACE equation.	Reporting ACE a receiving another Balancing Authority’s Actual Net Interchange, frequency response and Scheduled Net Interchange, and response to Interconnection Frequency Error, into providing Balancing Authority’s AGC /ACE equation.	None	Reliability Standards	Interchange” and “response to Interconnection Frequency Error”, to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed; no changes determined	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology and grammatical changes to improve understanding.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	Standards <ul style="list-style-type: none"> BAL-005-1 BAL-002-WECC-3 INT-009-3 Terms Actual Net Interchange (<i>current and proposed</i>)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the i interchange s Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications	Capitalized NERC defined terms within the definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Inverter-Based Resource Performance Guideline</p> <p>Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants</p> <p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms <ul style="list-style-type: none"> Overlap Regulation Service 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation <u>corrective response Service</u> .	(<i>proposed</i>); <ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>) 		
Reporting ACE Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction _(ATEC) .	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW, <u>which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction</u>	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 Terms <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (IME) (<i>current and proposed</i>); Pre-Reporting 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical Reference	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Reporting ACE is calculated as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. 	<p>for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction (I_{ATEC}). Reporting ACE is calculated as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. 	<p>Contingency Event ACE Value;</p> <ul style="list-style-type: none"> • Pseudo-Tie (current and proposed) 	<p>Document: Area Control Error Diversity Interchange Process</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <p>1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total</p>	<ul style="list-style-type: none"> • F_s = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{MATEC} = Automatic Time Error Correction Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.) <ul style="list-style-type: none"> ◦ In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie-Line Bias (TLB) Ccontrol and require the use of an ACE equation</p>			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Interconnection generation, load, and loss;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>	<p>similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs in an an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <p>1. All <u>Each individual</u> portions of the Interconnection are <u>is</u> included in exactly one BAA so that the sum of all BAAs' generation, l <u>o</u>ad, and losses <u>is</u> the same as total Interconnection generation, l <u>o</u>ad, and losses;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net</p>			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<p>Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times. This includes effects of ACE Diversity Interchange (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME/ME term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in <u>the responsible entity's Reporting ACE</u> that results in a loss of MW output less	<p>Standards BAL-002-3</p> <p>Terms Contingency Event Recovery Period</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference</p>	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Moved note on

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>than or equal to the Most Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of the Most Severe Single Contingency , or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.</p> <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW 	<p>than or equal to its Most Severe Single Contingency (MSSC), and greater than or equal to the lesser amount of:</p> <p>(i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity.</p>		Document: Area Control Error Diversity Interchange Process	modification of 80% threshold for readability.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> Quebec – 500 MW 	<ul style="list-style-type: none"> Eastern Interconnection: 900 MW Western Interconnection: 500 MW ERCOT: 800 MW Quebec: 500 MW 			
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i> Terms None		Retire

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Q operating R eserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly er (e.g., between zero and ten minutes) then, for the purposes of recovery from <u>a Reportable Balancing</u>	<p>Standards</p> <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 <p>Terms</p> <p>Reserve Sharing Group Reporting ACE</p>	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced “disturbance control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	purposes of disturbance control performance, the areas become a Reserve Sharing Group.	Contingency Event disturbance control performance , the areas become a Reserve Sharing Group.			
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group's Reporting ACE to use the sum of the Balancing Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.0 0 Hertz, except during a Time Error e Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms	Reliability Guideline: Operating Reserve Management Technical Reference	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> • Frequency Regulation; • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>) 	Document: Integrating Reporting ACE with the NERC Reliability Standards	Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange (NIs) (NIs)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are	Added acronym	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical	Added acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	excluded from Scheduled Net Interchange.			Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
Supplemental Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	A method of providing R egulation S ervice in which the Balancing Authority providing the R egulation S ervice receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	Standards None Terms None		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that	A mode of Automatic Generation Control that	Standards BAL-004-WECC-3		Added acronym and capitalized defined terms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency e error.	Terms Reporting ACE		
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error <u>The difference</u> is caused by the accumulation of Frequency Error over a given period.	Standards None Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<i>current and proposed</i>); Time Error Correction (<i>current and proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added acronym commonly used and minor grammatical change to definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A an <u>manual</u> offset to the Interconnection’s S cheduled F requency to return the Interconnection’s Time Error to a predetermined <u>range value</u> .	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Automatic Time Error Correction (<i>current and proposed</i>); • Scheduled Frequency (<i>proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

Project 2022-01 Reporting ACE Definition and Associated Terms – Automatic Generation Control - (AGC) Errata | (Redline)

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Automatic Generation Control - (AGC)	A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	A process designed and used to adjust a Balancing Authority Area's Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and revised</i>) 	Technical Reference Document: Balancing and Frequency Control Inverter-Based Resource Performance Guideline Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	Team reviewed and determined minor grammar changes.

Exhibit B

Implementation Plan

Implementation Plan

Project 2022-01 Reporting ACE Definition and Associated Terms

Definitions of Terms included in the *Glossary of Terms used in NERC Reliability Standards*

Proposed New, Modified, and Retired Terms in the NERC Glossary

This section includes all newly defined or revised terms proposed for inclusion in the *Glossary of Terms used in NERC Reliability Standards* (“*Glossary*”), as well as current NERC *Glossary* terms proposed for retirement. The new and revised definitions are included in **Appendix**.

No changes to the Reliability Standards in which these terms are used are proposed as part of Project 2022-01.

Proposed New Definition(s):

- ACE Diversity Interchange
- Inadvertent Interchange Management (I_{IM})

Proposed Modified Definition(s):

- Actual Net Interchange (NI_A)
- Area Control Error (ACE)
- Automatic Generation Control (AGC)
- Automatic Time Error Correction (ATEC)
- Balancing Authority Area (BAA)
- Balancing Contingency Event (BCE)
- Control Performance Standard (CPS)

- Disturbance
- Dynamic Interchange Schedule or Dynamic Schedule
- Frequency Bias Setting (FBS)
- Frequency Error
- Implemented Interchange
- Inadvertent Interchange
- Interchange Meter Error $-(I_{ME})$
- Operating Reserve – Spinning
- Operating Reserve – Supplemental
- Overlap Regulation Service
- Pseudo-Tie
- Ramp Rate or Ramp
- Regulation Service
- Reportable Balancing Contingency Event (RBCE)
- Reporting Area Control Error (Reporting ACE)
- Reserve Sharing Group (RSG)
- Reserve Sharing Group Reporting ACE
- Scheduled Frequency
- Scheduled Net Interchange (NIs)
- Supplemental Regulation Service
- Tie Line Bias (TLB)
- Time Error (TE)

- Time Error Correction (TEC)

Proposed Retirement(s) of Approved Definition(s):

- Disturbance Control Standard
- Net Interchange Schedule
- Net Scheduled Interchange
- Reportable Disturbance

Background

Project 2022-01 Reporting Ace Definition and Associated Terms was initiated in February 2022 to address an issue, identified by the Resources Subcommittee of the NERC Reliability and Security Technical Committee, regarding the current definition of the NERC defined term Reporting ACE. Specifically, the Resources Subcommittee identified a conflict in the current definition of Reporting ACE with the Western Interconnection’s Automatic Time Error Correction process. The Resources Subcommittee recommended making the Automatic Time Error Correction (ATEC) term generic to allow all Interconnections to implement an automated time error correction process and also revising related defined terms for consistency and clarity.

General Considerations

The Project 2022-01 standard drafting team has proposed one new definition for inclusion in the NERC *Glossary*, revisions to several defined terms, and the retirement of several approved terms that are no longer used in any NERC Reliability Standard or defined term or would no longer be used in any defined term following approval of other revised definitions that currently use those terms. Significant revisions are proposed to the definitions of several terms, such as Area Control Error and Reporting Area Control Error – Reporting ACE, that may require entities to update their documentation and related compliance materials. Other revisions are clarifying in nature, such as the proposed revisions to the definition for the term Time Error (TE). The standard drafting team also proposes revisions to the definitions of certain terms so that less-used defined terms used within those terms may be retired. For ease of implementation and to avoid administrative burden, a twelve month implementation period for all new, revised, and retired terms is proposed.

Effective Date for all New and Revised Definitions for NERC *Glossary* Terms

Where approval by an applicable governmental authority is required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the effective date of the applicable governmental authority’s order approving the definitions, or as otherwise provided for by the applicable governmental authority.

Where approval by an applicable governmental authority is not required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the date the definitions are adopted by the NERC Board of Trustees, or as otherwise provided for in that jurisdiction.

Retirement Date

Currently Effective Definitions

The currently effective definitions of the revised defined terms, as well as the defined terms Disturbance Control Standard, Net Interchange Schedule, Net Scheduled Interchange, and Reportable Disturbance shall be retired immediately prior to the effective date of the revised definitions in the particular jurisdiction in which the revised definitions are becoming effective.

Appendix: New, Revised, and Retired Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
<p>Actual Net Interchange – (NI_A)</p>	<p>The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.</p>
<p>ACE Diversity Interchange (ADI)</p>	<p>A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.
Area Control Error - (ACE)	The instantaneous difference between an entity's Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.
Automatic Generation Control - (AGC)	Standards BAL-004-WECC-3 Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and revised</i>)
<p>Automatic Time Error Correction – (ATEC)</p>	<p>The addition of a component , represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> • L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. • $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ • ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE / 6) * BA_{island}$ • BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>Interconnection time monitor, where:</p> $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - t * (TE_{\text{offset}})$ <ul style="list-style-type: none"> ○ TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. ○ t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. ○ TE_{offset} is 0.000 or +0.020 or -0.020. ○ PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>accounting is required, where:</p> $PI_{accum}^{on/offpeak} = \text{last period's } PI_{accum}^{on/offpeak}$
Balancing Authority Area (BAA)	Added Acronym
Balancing Contingency Event – (BCE)	Standards BAL-002-3 Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event
Control Performance Standard – (CPS)	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment A) Terms None
Disturbance	Standards <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control Standard <i>(proposed for retirement)</i>; • Disturbance Monitoring Equipment
Disturbance Control Standard – (DCS)	<p>Standards BAL-002-3</p> <p>Terms None</p>
Dynamic Interchange Schedule or Dynamic Schedule	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-WECC-3 • INT-009-3 <p>Terms</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Scheduled Net Interchange (NIs) <i>(current and proposed)</i>
Frequency Bias Setting (FBS)	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms Reporting ACE <i>(current and proposed)</i>
Frequency Error	Standards: <ul style="list-style-type: none"> • BAL-001-2 • MOD-027-1 Term: <ul style="list-style-type: none"> • Control Performance Standard • Reporting ACE • Frequency

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Regulation; <ul style="list-style-type: none"> • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>)
Inadvertent Interchange	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); • Dynamic Transfer; • Primary Inadvertent Interchange (WECC)
Inadvertent Interchange	Standards None

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Management – (I_{IM})	Terms Reporting Ace <i>(proposed)</i>
Interchange Meter Error - (I_{ME})	Standards None Terms Reporting ACE <i>(current and proposed)</i>
Interchange Schedule	Standards MOD-028-2 Terms <ul style="list-style-type: none"> • Dynamic Interchange Schedule or Dynamic Schedule <i>(current and proposed);</i> • Net Interchange Schedule <i>(proposed for</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p><i>retirement</i>);</p> <ul style="list-style-type: none"> • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias (<i>current and proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Implemented Interchange	<p>Standards None</p> <p>Terms</p> <ul style="list-style-type: none"> • Reliability Adjustment; • Arranged Interchange
Net Interchange Schedule	<p>Standards None</p> <p>Terms None</p>
Net Scheduled Interchange	<p>Standards None</p> <p>Terms None</p>
Operating Reserve – Spinning	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Operating Reserve – Supplemental	Standards BAL-002-WECC-3 Terms None
Overlap Regulation Service	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms None
Pre-Reporting Contingency Event ACE Value	Standards BAL-002-3 Terms None

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Pseudo-Tie	<p>Standards</p> <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 <p>Terms Actual Net Interchange <i>(current and proposed)</i></p>
Ramp Rate or Ramp	<p>Standards None</p> <p>Terms Response Rate</p>
Regulation Service	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms</p> <ul style="list-style-type: none"> • Overlap Regulation Service <i>(proposed);</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>)
Reporting Area Control Error – (Reporting ACE)	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (IME) (<i>current and proposed</i>); Pre-Reporting Contingency Event ACE Value; Pseudo-Tie (<i>current and proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
<p>Reportable Balancing Contingency Event – (RBCE)</p>	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity’s Reporting ACE that results in a loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or (ii) the amount listed below for the applicable Interconnection.

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> ○ Eastern Interconnection: 900 MW ○ Western Interconnection: 500 MW ○ ERCOT: 800 MW ○ Quebec: 500 MW
Reportable Disturbance	<p>Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i></p> <p>Terms None</p>
Reserve Sharing Group – (RSG)	<p>Standards</p> <ul style="list-style-type: none"> ● PRC-005-6 ● BAL-001-2 ● BAL-002-3 ● BAL-002-WECC-3 <p>Terms Reserve Sharing</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Group Reporting ACE
Reserve Sharing Group Reporting ACE	Standards BAL-001-2 Terms None
Scheduled Frequency	Standards <ul style="list-style-type: none"> • BAL-001-2 • MOD-027-1 Terms <ul style="list-style-type: none"> • Frequency Regulation; • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Scheduled Net Interchange - (NIs)	Standards None Terms Reporting ACE <i>(current and proposed)</i>
Supplemental Regulation Service	Standards None Terms None
Tie Line Bias (TLB)	Standards BAL-004-WECC-3 Terms Reporting ACE
Time Error (TE)	Standards None Terms <ul style="list-style-type: none"> • Automatic Time Error Correction <i>(current and</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p><i>proposed</i>);</p> <ul style="list-style-type: none"> • Time Error Correction (<i>current and proposed</i>)
<p>Time Error Correction (TEC)</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Automatic Time Error Correction (<i>current and proposed</i>); • Scheduled Frequency (<i>proposed</i>)

Exhibit C

Order No. 672 Criteria

EXHIBIT C

Order No. 672 Criteria

In Order No. 672,¹ the Commission identified a number of criteria it will use to analyze Reliability Standards proposed for approval to ensure they are just, reasonable, not unduly discriminatory or preferential, and in the public interest. The discussion below identifies these factors and explains how the proposed new, modified, and retired definitions of terms related to the calculation of Reporting Area Control Error or Reporting ACE (“proposed Glossary Terms”) have met or exceeded the criteria.

1. Proposed Reliability Standards must be designed to achieve a specified reliability goal and must contain a technically sound means to achieve that goal.²

The Proposed Glossary Terms define, or are related to, the components of Reporting Area Control Error, or Reporting ACE. Reporting ACE is one of the most important single measurements available to indicate the current state of the responsible entity’s contribution to Interconnection reliability.

¹ *Rules Concerning Certification of the Electric Reliability Organization; and Procedures for the Establishment, Approval, and Enforcement of Electric Reliability Standards*, Order No. 672, 114 FERC ¶ 61,104, *order on reh’g*, Order No. 672-A, 114 FERC ¶ 61,328 (2006) [hereinafter Order No. 672].

² *See* Order No. 672, *supra* note 1, at P 321 (“The proposed Reliability Standard must address a reliability concern that falls within the requirements of section 215 of the FPA. That is, it must provide for the reliable operation of Bulk-Power System facilities. It may not extend beyond reliable operation of such facilities or apply to other facilities. Such facilities include all those necessary for operating an interconnected electric energy transmission network, or any portion of that network, including control systems. The proposed Reliability Standard may apply to any design of planned additions or modifications of such facilities that is necessary to provide for reliable operation. It may also apply to Cybersecurity protection.”).

See Order No. 672, *supra* note 1, at P 324 (“The proposed Reliability Standard must be designed to achieve a specified reliability goal and must contain a technically sound means to achieve this goal. Although any person may propose a topic for a Reliability Standard to the ERO, in the ERO’s process, the specific proposed Reliability Standard should be developed initially by persons within the electric power industry and community with a high level of technical expertise and be based on sound technical and engineering criteria. It should be based on actual data and lessons learned from past operating incidents, where appropriate. The process for ERO approval of a proposed Reliability Standard should be fair and open to all interested persons.”).

Over time, NERC has identified a large amount of accumulated time error in the Eastern Interconnection. It was recommended that NERC revise the Reporting ACE definition, which presently refers to Automatic Time Error Correction as a component only in the Western Interconnection, to accommodate any Interconnection that has an approved Automatic Time Error Correction or other process to control inadvertent accumulation. The Proposed Glossary Terms, including the revised definition of Reporting ACE, would advance reliability by implementing this recommendation and allowing for any Interconnection to implement an Automatic Time Error Correction or other process to control inadvertent accumulation, as well as by improving clarity regarding the components that make up the Area Control Error used for reporting. NERC also proposes revisions that would correct grammar or capitalization issues, update terms used to reflect current terminology, or clarify current definitions. The proposed Glossary Terms are thus designed to achieve a specific reliability goal and contain a technically sound means to achieve that goal.

2. Proposed Reliability Standards must be applicable only to users, owners, and operators of the bulk power system, and must be clear and unambiguous as to what is required and who is required to comply.³

The Proposed Glossary Terms are clear and unambiguous as to what is required and who is required to comply and support clear and consistent application in the Reliability Standards in which they are used, in accordance with Order No. 672. The proposed Glossary Terms help clearly articulate the actions that applicable entities must take to comply with the standards.

³ See Order No. 672, *supra* note 1, at P 322 (“The proposed Reliability Standard may impose a requirement on any user, owner, or operator of such facilities, but not on others.”).

See Order No. 672, *supra* note 1, at P 325 (“The proposed Reliability Standard should be clear and unambiguous regarding what is required and who is required to comply. Users, owners, and operators of the Bulk-Power System must know what they are required to do to maintain reliability.”).

- 3. A proposed Reliability Standard must include clear and understandable consequences and a range of penalties (monetary and/or non-monetary) for a violation.⁴**

The proposed Glossary Terms help support the clear and consistent application of Reliability Standards in which they are used. No changes are proposed to those Reliability Standards; thus, no changes are proposed to the approved Violation Severity Levels or Violation Risk Factors for those Reliability Standards.

- 4. A proposed Reliability Standard must identify clear and objective criteria or measures for compliance, so that it can be enforced in a consistent and non-preferential manner.⁵**

The proposed Glossary Terms help support the clear and consistent application of Reliability Standards in which they are used. No changes are proposed to those Reliability Standards; thus, no changes are made to the measures⁶ in those Reliability Standards that support each requirement by clearly identifying what is required and how the requirement will be enforced.

- 5. Proposed Reliability Standards should achieve a reliability goal effectively and efficiently, but do not necessarily have to reflect “best practices” without regard to implementation cost or historical regional infrastructure design.⁷**

The proposed Glossary Terms achieve the reliability goals of Project 2022-01 Reporting ACE Definition and Associated Terms effectively and efficiently in accordance with Order No. 672. The proposed Glossary Terms would achieve the reliability goal of providing needed clarity

⁴ See Order No. 672, *supra* note 1, at P 326 (“The possible consequences, including range of possible penalties, for violating a proposed Reliability Standard should be clear and understandable by those who must comply.”).

⁵ See Order No. 672, *supra* note 1, at P 327 (“There should be a clear criterion or measure of whether an entity is in compliance with a proposed Reliability Standard. It should contain or be accompanied by an objective measure of compliance so that it can be enforced and so that enforcement can be applied in a consistent and non-preferential manner.”).

⁶ These measures help provide clarity regarding how the requirements would be enforced and help ensure that the requirements would be enforced in a clear, consistent, and non-preferential manner and without prejudice to any party.

⁷ See Order No. 672, *supra* note 1, at P 328 (“The proposed Reliability Standard does not necessarily have to reflect the optimal method, or ‘best practice,’ for achieving its reliability goal without regard to implementation cost or historical regional infrastructure design. It should however achieve its reliability goal effectively and efficiently.”).

regarding the application of requirements relating to Reporting ACE and allowing any Interconnection to implement a process for automatically correcting time error.

6. **Proposed Reliability Standards cannot be “lowest common denominator,” i.e., cannot reflect a compromise that does not adequately protect Bulk-Power System reliability. Proposed Reliability Standards can consider costs to implement for smaller entities, but not at consequences of less than excellence in operating system reliability.⁸**

The proposed Glossary Terms do not reflect a “lowest common denominator” approach.

The proposed Glossary Terms contain a number of revisions that would clarify the terms, aid in the application of the Reliability Standards in which they are used, and allow for the implementation of regional-specific automatic time error correction processes in any Interconnection.

7. **Proposed Reliability Standards must be designed to apply throughout North America to the maximum extent achievable with a single Reliability Standard while not favoring one geographic area or regional model. It should take into account regional variations in the organization and corporate structures of transmission owners and operators, variations in generation fuel type and ownership patterns, and regional variations in market design if these affect the proposed Reliability Standard.⁹**

The proposed Glossary Terms would continue to apply consistently throughout North America and do not favor one geographic area or regional model. The proposed revised definition

⁸ See Order No. 672, *supra* note 1, at P 329 (“The proposed Reliability Standard must not simply reflect a compromise in the ERO’s Reliability Standard development process based on the least effective North American practice—the so-called ‘lowest common denominator’—if such practice does not adequately protect Bulk-Power System reliability. Although the Commission will give due weight to the technical expertise of the ERO, we will not hesitate to remand a proposed Reliability Standard if we are convinced it is not adequate to protect reliability.”).

See Order No. 672, *supra* note 1, at P 330 (“A proposed Reliability Standard may take into account the size of the entity that must comply with the Reliability Standard and the cost to those entities of implementing the proposed Reliability Standard. However, the ERO should not propose a ‘lowest common denominator’ Reliability Standard that would achieve less than excellence in operating system reliability solely to protect against reasonable expenses for supporting this vital national infrastructure. For example, a small owner or operator of the Bulk-Power System must bear the cost of complying with each Reliability Standard that applies to it.”).

⁹ See Order No. 672, *supra* note 1, at P 331 (“A proposed Reliability Standard should be designed to apply throughout the interconnected North American Bulk-Power System, to the maximum extent this is achievable with a single Reliability Standard. The proposed Reliability Standard should not be based on a single geographic or regional model but should take into account geographic variations in grid characteristics, terrain, weather, and other such factors; it should also take into account regional variations in the organizational and corporate structures of transmission owners and operators, variations in generation fuel type and ownership patterns, and regional variations in market design if these affect the proposed Reliability Standard.”).

of Reporting ACE in particular would allow other Interconnections, beyond the Western Interconnection, to implement an automatic time error correction process.

8. Proposed Reliability Standards should cause no undue negative effect on competition or restriction of the grid beyond any restriction necessary for reliability.¹⁰

The proposed Glossary Terms would have no undue negative effect on competition and would not unreasonably restrict the available transmission capacity or limit the use of the BPS in a preferential manner. The Reliability Standards in which the proposed Glossary Terms are used are unchanged and would continue to require the same performance by each of the applicable entities.

9. The implementation time for the proposed Reliability Standard is reasonable.¹¹

The proposed effective date for the proposed Glossary Terms is just and reasonable and appropriately balances the urgency in the need to implement the standard against the reasonableness of the time allowed for those who must comply to develop necessary procedures or other relevant capability. The proposed implementation plan provides that the proposed Glossary Terms would become effective on the first day of the first calendar quarter that is twelve (12) months following regulatory approval. The currently effective versions of the revised proposed Glossary Terms, as well as the four terms proposed for retirement without replacement, would be retired immediately prior to the effective date of the proposed Glossary Terms. This

¹⁰ See Order No. 672, *supra* note 1, at P 332 (“As directed by section 215 of the FPA, the Commission itself will give special attention to the effect of a proposed Reliability Standard on competition. The ERO should attempt to develop a proposed Reliability Standard that has no undue negative effect on competition. Among other possible considerations, a proposed Reliability Standard should not unreasonably restrict available transmission capability on the Bulk-Power System beyond any restriction necessary for reliability and should not limit use of the Bulk-Power System in an unduly preferential manner. It should not create an undue advantage for one competitor over another.”).

¹¹ See Order No. 672, *supra* note 1, at P 333 (“In considering whether a proposed Reliability Standard is just and reasonable, the Commission will consider also the timetable for implementation of the new requirements, including how the proposal balances any urgency in the need to implement it against the reasonableness of the time allowed for those who must comply to develop the necessary procedures, software, facilities, staffing or other relevant capability.”).

implementation timeline reflects consideration of the fact that significant revisions are proposed to the definitions of several terms, including the term Reporting Area Control Error (Reporting ACE), that may require entities to update their documentation and related compliance materials. Other changes are clarifying, modest in nature, or non-substantive in nature. For administrative ease, NERC proposes a single implementation period for all proposed Glossary Terms. The proposed implementation plan is attached as **Exhibit B** to this petition.

10. The Reliability Standard was developed in an open and fair manner and in accordance with the Commission-approved Reliability Standard development process.¹²

The proposed Glossary Terms were developed in accordance with NERC's Commission-approved processes for developing and approving Reliability Standards. **Exhibit D** includes a summary of the development proceedings for the proposed Glossary terms, and details the processes followed to develop the proposed Glossary Terms. These processes included, among other things, comment periods, pre-ballot review periods, and balloting periods. Additionally, all meetings of the standard drafting team were properly noticed and open to the public.

11. NERC must explain any balancing of vital public interests in the development of proposed Reliability Standards.¹³

NERC has identified no competing public interests regarding the request for approval of the proposed Glossary Terms. No comments were received that indicated that the proposed Glossary Terms conflict with other vital public interests.

¹² See Order No. 672, *supra* note 1, at P 334 (“Further, in considering whether a proposed Reliability Standard meets the legal standard of review, we will entertain comments about whether the ERO implemented its Commission-approved Reliability Standard development process for the development of the particular proposed Reliability Standard in a proper manner, especially whether the process was open and fair. However, we caution that we will not be sympathetic to arguments by interested parties that choose, for whatever reason, not to participate in the ERO’s Reliability Standard development process if it is conducted in good faith in accordance with the procedures approved by the Commission.”).

¹³ See Order No. 672, *supra* note 1, at P 335 (“Finally, we understand that at times development of a proposed Reliability Standard may require that a particular reliability goal must be balanced against other vital public interests,

12. Proposed Reliability Standards must consider any other appropriate factors.¹⁴

No other negative factors relevant to whether the proposed Glossary Terms are just and reasonable were identified.

such as environmental, social and other goals. We expect the ERO to explain any such balancing in its application for approval of a proposed Reliability Standard.”).

¹⁴ See Order No. 672, *supra* note 1, at P 323 (“In considering whether a proposed Reliability Standard is just and reasonable, we will consider the following general factors, as well as other factors that are appropriate for the particular Reliability Standard proposed.”).

Exhibit D

Summary of Development and Complete Record of Development

Summary of Development History

The following is a summary of the development record for proposed Glossary Terms under Project 2022-01 Reporting ACE Definition and Associated Terms.

I. Overview of the Standard Drafting Team

When evaluating a proposed Reliability Standard (to include definitions used in Reliability Standards), the Commission is expected to give “due weight” to the technical expertise of the ERO.¹ The technical expertise of the ERO is derived from the standard drafting team (“SDT”) selected to lead each project in accordance with Section 4.3 of the NERC Standard Processes Manual.² For this project, the SDT consisted of industry experts, all with a diverse set of experiences. A roster of the Project 2022-01 SDT members is included in **Exhibit E**.

II. Standard Development History

A. Standard Authorization Request Development

On January 19, 2022, the Standards Committee accepted the Standards Authorization Request (“SAR”) and authorized posting it for a 30-day informal comment period beginning February 9, 2022, along with a nomination period for SAR drafting team members.³ At its June 15, 2022 meeting, the Standards Committee accepted the revised SAR, appointed the SAR drafting team as the standard drafting team (“SDT”), and authorized drafting revisions to the Reliability Standards Glossary Terms identified in the SAR.⁴

¹ Section 215(d)(2) of the Federal Power Act; 16 U.S.C. § 824(d)(2) (2018).

² The NERC *Standard Processes Manual* is available at https://www.nerc.com/AboutNERC/RulesOfProcedure/Appendix_3A_SPM_Clean_Mar2019.pdf.

³ NERC, Standards Committee Meeting Minutes for Jan. 19, 2022, Agenda Item 8 (Reporting ACE Definition and Associated Terms), https://www.nerc.com/comm/SC/Agenda%20Highlights%20and%20Minutes/SC_January_Meeting_Minutes_Approved_February_16_2022.pdf.

⁴ NERC, Standards Committee Meeting Minutes for June 15, 2022, Agenda Item 4 (Project 2022-01 Reporting ACE Definition and Associated Term), <https://www.nerc.com/comm/SC/Agenda%20Highlights%20and%20Minutes/SC%20June%20Meeting%20Minutes%20-%20Approved%20July%202022.pdf>.

B. First Posting – Comment Period and Initial Ballot

On January 25, 2023, the Standards Committee voted to authorize initial posting of the proposed Reporting Area Control Error (“ACE”) Definition and Associated Terms and the associated Implementation Plan for a 45-day formal comment period, with a ballot pool formed in the first 30 days, and parallel initial ballots conducted during the last 10 days of the comment period.⁵ The Comment period ran from January 31 through March 16, 2023, with the initial ballot running from March 7 through March 16, 2023.

The results for the initial ballot are summarized in the table below:⁶

Glossary Term	Quorum / Approval
New - Inadvertent Interchange Management (IIM)	85.04% / 73.60%
Modified - Actual Net Interchange (NIA)	85.04% / 97.37%
Modified - Area Control Error (ACE)	85.47% / 70.32%
Modified - Automatic Time Error Correction (ATEC)	85.47% / 97.55%
Modified - Balancing Authority Area (BAA)	85.11% / 97.94%
Modified - Balancing Contingency Event (BCE)	85.47% / 99.60%
Modified - Control Performance Standard (CPS)	85.47% / 96.32%
Modified - Disturbance	85.11% / 99.61%
Modified - Dynamic Interchange Schedule or Dynamic Schedule	85.47% / 97.75%
Modified - Frequency Bias Setting (FBS)	85.47% / 97.79%
Modified - Frequency Error	97.79% / 99.61%
Modified - Implemented Interchange	85.47% / 99.61%
Modified - Inadvertent Interchange	85.47% / 99.20%
Modified - Interchange Meter Error (IME)	85.47% / 98.24%
Modified - Operating Reserve – Spinning	85.47% / 99.51%

⁵ NERC, Standards Committee Meeting Minutes for Jan. 25, 2023, Agenda Item 9 (Project 2022-01 Reporting ACE Definition and Associated Terms), <https://www.nerc.com/comm/SC/Agenda%20Highlights%20and%20Minutes/January%20Meeting%20Minutes%20-%20Approved%20February%202022,%202023.pdf>.

⁶ Detailed results are available in Exhibit D to this petition, at items 17-51.

Glossary Term	Quorum / Approval
Modified - Operating Reserve – Supplemental	85.47% / 99.52%
Modified - Overlap Regulation Service	85.47% / 97.75%
Modified - Pseudo-Tie	85.41% / 99.61%
Modified - Ramp Rate or Ramp	85.41% / 99.61%
Modified - Regulation Service	85.41% / 99.60%
Modified - Reportable Balancing Contingency Event (RBCE)	85.41% / 97.82%
Modified - Reporting Area Control Error (Reporting ACE)	85.41% / 69.73%
Modified - Reserve Sharing Group (RSG)	85.41% / 99.61%
Modified - Reserve Sharing Group Reporting ACE	85.04% / 99.60%
Modified - Scheduled Frequency	85.41% / 99.61%
Modified - Scheduled Net Interchange (NIS)	85.41% / 97.84%
Modified - Supplemental Regulation Service	85.41% / 99.60%
Modified - Tie Line Bias (TLB)	85.41% / 99.59%
Modified - Time Error (TE)	85.41% / 97.84%
Modified - Time Error Correction (TEC)	85.41% / 99.59%
Retirement - Disturbance Control Standard	84.98% / 99.60%
Retirement - Net Actual Interchange	84.98% / 99.60%
Retirement - Net Interchange Schedule	84.98% / 99.60%
Retirement - Net Scheduled Interchange	84.98% / 99.60%
Retirement - Reportable Disturbance	84.62% / 99.60%
Implementation Plan	84.65% / 92.39%

As detailed above, the balloted Glossary Terms all reached quorum of at least 84% and all terms received greater than the required two-thirds approval of the ballot body; most of the terms received 90% or higher supporting opinions. The Implementation Plan reached quorum at 84.65% and received 92.39% supportive opinions.⁷ There were 47 sets of responses, including comments

⁷ *Id.* at item 58.

from approximately 138 different individuals from approximately 97 companies, representing all 10 of the Industry Segments.⁸

C. Second Posting – New Term and Additional Comment Period and Ballot

After considering the response and comments to the first posting, the SDT posted draft 2 of Reporting ACE and Inadvertent Interchange Management, as well as draft 1 of a proposed new Glossary Term ACE Diversity Interchange (ADI) for comment and ballot.⁹ The terms were posted for a 45 day formal comment period from September 14, 2023 through October 30, 2023. The ballots took place during the final 10 days from October 20, 2023 through October 30, 2023.

All three balloted Glossary Terms reached quorum with greater than 82% and received more than 91% supporting opinions. The ballot results are summarized in the below table:

Glossary Term	Quorum / Approval
New - Inadvertent Interchange Management (IIM)	83.33% / 96.16%
New - ACE Diversity Interchange (ADI)	82.27% / 91.67%
Modified - Reporting Area Control Error (Reporting ACE)	83.26% / 92.80%

For this posting, there were 38 sets of responses, including comments from approximately 113 different individuals and approximately 83 companies, representing all 10 industry segments.¹⁰

⁸ *Id.* at item 13.

⁹ On July 19, 2023, the Standards Committee authorized the initial posting of the proposed ACE Diversity Interchange term for a 45-day formal comment period, with ballot pool formed in the first 30 days, and initial ballot conducted during the last 10 days of the comment period. NERC, Standards Committee Meeting Minutes for July 19, 2023, Agenda Item 10 (Project 2022-01 Reporting ACE Definition and Associated Terms), https://www.nerc.com/comm/SC/Agenda%20Highlights%20and%20Minutes/SC_Agenda_Package_July_19_2023.pdf.

¹⁰ Exhibit D to this petition at item 59.

D. Final Ballot

The proposed list of new and modified Glossary Terms¹¹ and Implementation Plan were posted for a 10-day final ballot period from December 11 through December 20, 2023. As shown in the table below, all balloted items reached at least 84% quorum and received greater than 93% supporting opinions, except for Area Control Error (ACE) which passed with 73.16% supporting opinions.¹²

Glossary Term	Quorum / Approval
New - ACE Diversity Interchange (ADI)	84.09% / 95.64%
New - Inadvertent Interchange Management (IIM)	87.61% / 96.28%
Modified - Actual Net Interchange (NIA)	88.03% / 97.45%
Modified - Area Control Error (ACE)	88.46% / 73.16%
Modified - Automatic Time Error Correction (ATEC)	88.46% / 97.65%
Modified - Balancing Authority Area (BAA)	88.51% / 97.99%
Modified - Balancing Contingency Event (BCE)	88.46% / 99.60%
Modified - Control Performance Standard (CPS)	88.46% / 96.43%
Modified - Disturbance	88.51% / 99.61%
Modified - Dynamic Interchange Schedule or Dynamic Schedule	88.46% / 97.81%
Modified - Frequency Bias Setting (FBS)	88.46% / 97.85%
Modified - Frequency Error	88.46% / 99.61%
Modified - Implemented Interchange	88.46% / 99.61%
Modified - Inadvertent Interchange	88.46% / 99.21%
Modified - Interchange Meter Error (IME)	88.89% / 98.23%
Modified - Operating Reserve – Spinning	88.46% / 99.51%
Modified - Operating Reserve – Supplemental	88.46% / 99.52%
Modified - Overlap Regulation Service	88.46% / 97.81%

¹¹ The term for Interchange Meter Error (IME) was balloted as additional instead of final. To confirm the consensus achieved in the prior ballot, NERC staff manually calculated the results of this final ballot by including all unchanged results from March 2023, in accordance with the Standards Process Manual (SPM). The ballot result details can be viewed at *Id.* item 72.

¹² Full ballot result details can be found at *Id.* items 72-107.

Glossary Term	Quorum / Approval
Modified - Pseudo-Tie	88.41% / 99.61%
Modified - Ramp Rate or Ramp	88.41% / 99.61%
Modified - Regulation Service	88.41% / 99.60%
Modified - Reportable Balancing Contingency Event (RBCE)	88.41% / 97.82%
Modified - Reporting Area Control Error (Reporting ACE)	87.55% / 94.86%
Modified - Reserve Sharing Group (RSG)	88.41% / 99.61%
Modified - Reserve Sharing Group Reporting ACE	88.46% / 99.60%
Modified - Scheduled Frequency	88.41% / 99.61%
Modified - Scheduled Net Interchange (NIS)	88.41% / 97.89%
Modified - Supplemental Regulation Service	88.41% / 99.60%
Modified - Tie Line Bias (TLB)	88.41% / 99.59%
Modified - Time Error (TE)	88.41% / 97.89%
Modified - Time Error Correction (TEC)	88.41% / 99.59%
Retirement - Disturbance Control Standard	87.98% / 99.60%
Retirement - Net Interchange Schedule	87.98% / 99.60%
Retirement - Net Scheduled Interchange	87.98% / 99.60%
Retirement - Reportable Disturbance	88.03% / 99.60%
Implementation Plan	88.16% / 93.98%

The term for Net Actual Interchange was balloted for retirement. During review, NERC staff found this term could not be retired as it is still used within active Reliability Standards. The action and results of this ballot did not proceed to Board adoption.

E. Board of Trustees Adoption

The NERC Board of Trustees adopted the proposed Reliability Standard Definitions and the Implementation Plan at its February 15, 2024 meeting.¹³

¹³ NERC, *Board of Trustees Agenda Package Feb. 15, 2024*, Agenda Item 8a (Project 2022-01 Reporting ACE Definition and Associated Terms), [https://www.nerc.com/gov/bot/Agenda%20highlights%20and%20Mintues%202013/Board%20Open%20Agenda%20Package%20-%20February%202024%20\(002\).pdf](https://www.nerc.com/gov/bot/Agenda%20highlights%20and%20Mintues%202013/Board%20Open%20Agenda%20Package%20-%20February%202024%20(002).pdf).

F. AGC Errata

During the review of this project, the drafting team identified minor, non-substantive errata to the term Automatic Generator Control (AGC). These revisions were taken to the Standards Committee in February 2024, following the procedure in Section 12.0 of the Standard Processes Manual. The Standards Committee agreed that no substantive changes were proposed and the action was approved.¹⁴ The errata definition is being filed for regulatory approval in this petition.

¹⁴ NERC, *Standards Committee Meeting Agenda Feb. 21, 2024*, Agenda Item 6 (Project 2022-01 Reporting ACE Definition and Associated Terms Errata), https://www.nerc.com/comm/SC/Agenda%20Highlights%20and%20Minutes/SC_Meeting_Agenda_February_21_2024%201.pdf.

Complete Record of Development

Project 2022-01 Reporting ACE Definition and Associated Terms

Related Files

Status
 The final ballots for **Project 2022-01 Reporting ACE Definition and Associated Terms** concluded **8 p.m. Eastern, Wednesday, December 20, 2023**. The voting results can be accessed via the links below. The definitions (with the exception of Net Actual Interchange as outlined below) will be submitted to the Board of Trustees for adoption and then filed with the appropriate regulatory authorities.

The term for **Interchange Meter Error** was balloted as additional instead of final. To confirm the consensus achieved in the prior ballot, NERC staff manually calculated the results of this final ballot by including all unchanged results from the March 2023 ballot, in accordance with the Standards Process Manual (SPM). See the [PDF](#) for detailed result information.

The term for **Net Actual Interchange** was balloted for retirement. During review, NERC staff found this term could not be retired as it is still used within active Standards. The action and results of this ballot will not proceed to Board adoption or regulatory approval.

During the review of this project, the drafting team identified minor, non-substantive errata to the term **Automatic Generator Control (AGC)**. These revisions were taken to the Standards Committee (SC) in February 2024 keeping with Section 12.0 of the SPM. The SC agreed that no substantive changes were proposed and the action was approved. The errata will be filed for regulatory approval.

Background

The SAR states that the current definition of Reporting Area Control Error (ACE) presents a conflict with the Western Interconnection's Automatic Time Error Correction (ATEC) process and does not allow other Interconnections to pursue ATEC. Additionally, there is confusion in that the terms ACE and Reporting ACE are both used throughout the standards. A revised definition should provide improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.

Standard(s) Affected: Multiple standards reference the Reporting ACE definition, including BAL.

Draft	Actions	Dates	Results	Consideration of Comments
<p>Reporting ACE Definition Master List Clean (108) Redline to Last Posted (109) Redline to Last Approved (110)</p>	<p>For informational purposes. These documents will be presented to the Board of Trustees</p>	<p>01/16/2024</p>		
<p>Final Draft Reporting ACE Definition Master List Clean (66) Redline to Last Posted (67) Redline to Last Approved (68) Implementation Plan Clean (69) Redline (70)</p>	<p>Final Ballots Info (71) Vote</p>	<p>12/11/23 - 12/20/23</p>	<p>Modified - Interchange Meter Error -(IME) (72) <i>This ballot was set up in the system as additional vs. final. The results were verified in accordance with the SPM for final ballots.</i></p> <p>Retirement - Net Actual Interchange <i>This term should not have been balloted for final approval. It will not proceed to Board adoption/regulatory approval.</i></p> <p>All other ballot results are correct and can be accessed here: New - ACE Diversity Interchange (ADI) (73) New - Inadvertent Interchange Management (IIM) (74) Modified - Actual Net Interchange (NIA) (75) Modified - Area Control Error (ACE) (76) Modified - Automatic Time Error Correction (ATEC) (77) Modified - Balancing Authority Area (BAA) (78) Modified - Balancing Contingency Event (BCE) (79) Modified - Control Performance Standard</p>	

			<p>(CPS) (80)</p> <p>Modified - Disturbance (81)</p> <p>Modified - Dynamic Interchange Schedule or Dynamic Schedule (82)</p> <p>Modified - Frequency Bias Setting (FBS) (83)</p> <p>Modified - Frequency Error (84)</p> <p>Modified - Implemented Interchange (85)</p> <p>Modified - Inadvertent Interchange (86)</p> <p>Modified - Operating Reserve – Spinning (87)</p> <p>Modified - Operating Reserve – Supplemental (88)</p> <p>Modified - Overlap Regulation Service (89)</p> <p>Modified - Pseudo-Tie (90)</p> <p>Modified - Ramp Rate or Ramp (91)</p> <p>Modified - Regulation Service (92)</p> <p>Modified - Reportable Balancing Contingency Event (RBCE) (93)</p> <p>Modified - Reporting Area Control Error (Reporting ACE) (94)</p> <p>Modified - Reserve Sharing Group (RSG) (95)</p> <p>Modified - Reserve Sharing Group Reporting ACE (96)</p> <p>Modified - Scheduled Frequency (97)</p> <p>Modified - Scheduled Net Interchange (NIS) (98)</p> <p>Modified - Supplemental Regulation Service (99)</p> <p>Modified - Tie Line Bias (TLB) (100)</p> <p>Modified - Time Error (TE) (101)</p> <p>Modified - Time Error Correction (TEC) (102)</p> <p>Retirement - Disturbance Control Standard (103)</p> <p>Retirement - Net Interchange Schedule (104)</p> <p>Retirement - Net Scheduled Interchange (105)</p> <p>Retirement - Reportable Disturbance (106)</p> <p>Implementation Plan (107)</p>
			Ballot Results
			New - Inadvertent Interchange Management (IIM) (63)
Draft 2	Initial and Additional Ballots		

<p>Inadvertent Interchange Management – (IIM) and Reporting Area Control Error – (Reporting ACE) Clean (53) Redline (54)</p> <p>Draft 1 ACE Diversity Interchange (ADI) Clean (55) Redline (56)</p> <p>Supporting Materials Unofficial Comment Form (Word) (57)</p>	<p>Ballot Open Reminder (61)</p> <p>Info (62)</p> <p>Vote</p>	<p>10/20/23 - 10/30/23</p>	<p>New - ACE Diversity Interchange (ADI) (64)</p> <p>Modified - Reporting Area Control Error (Reporting ACE) (65)</p>	
	<p>Join Ballot Pool</p>	<p>09/14/23 - 10/13/23</p>		
	<p>Comment Period</p> <p>Info (58)</p> <p>Submit Comments</p>	<p>09/14/23 - 10/30/23</p>	<p>Comments Received (59)</p>	<p>Consideration of Comments (60)</p>
<p>Reporting ACE Definition Master List Clean (8) Redline (9)</p> <p>Implementation Plan (10)</p> <p>Supporting Materials Unofficial Comment Form (Word) (11)</p>	<p>Initial Ballots</p> <p>Ballot Open Reminder (15)</p> <p>Info (16)</p> <p>Vote</p>	<p>03/07/23 - 03/16/23</p>	<p>Ballot Results</p> <p>New - Inadvertent Interchange Management (IIM) (17)</p> <p>Modified - Actual Net Interchange (NIA) (18)</p> <p>Modified - Area Control Error (ACE) (19)</p> <p>Modified - Automatic Time Error Correction (ATEC) (20)</p> <p>Modified - Balancing Authority Area (BAA) (21)</p> <p>Modified - Balancing Contingency Event (BCE) (22)</p> <p>Modified - Control Performance Standard (CPS) (23)</p> <p>Modified - Disturbance (24)</p> <p>Modified - Dynamic Interchange Schedule or Dynamic Schedule (25)</p> <p>Modified - Frequency Bias Setting (FBS) (26)</p> <p>Modified - Frequency Error (27)</p> <p>Modified - Implemented Interchange (28)</p> <p>Modified - Inadvertent Interchange (29)</p> <p>Modified - Interchange Meter Error (IME) (30)</p> <p>Modified - Operating Reserve – Spinning (31)</p> <p>Modified - Operating Reserve – Supplemental (32)</p> <p>Modified - Overlap Regulation Service (33)</p> <p>Modified - Pseudo-Tie (34)</p> <p>Modified - Ramp Rate or Ramp (35)</p> <p>Modified - Regulation Service (36)</p> <p>Modified - Reportable Balancing Contingency Event (RBCE) (37)</p> <p>Modified - Reporting Area Control Error (Reporting ACE) (38)</p> <p>Modified - Reserve Sharing Group (RSG) (39)</p>	

			Modified - Reserve Sharing Group Reporting ACE (40) Modified - Scheduled Frequency (41) Modified - Scheduled Net Interchange (NIS) (42) Modified - Supplemental Regulation Service (43) Modified - Tie Line Bias (TLB) (44) Modified - Time Error (TE) (45) Modified - Time Error Correction (TEC) (46) Retirement - Disturbance Control Standard (47) Retirement - Net Actual Interchange (48) Retirement - Net Interchange Schedule (49) Retirement - Net Scheduled Interchange (50) Retirement - Reportable Disturbance (51) Implementation Plan (52)	
	Join Ballot Pools Note: There is a separate ballot for each of the definitions and implementation plan related to this project – a total of 36. It is necessary to join each ballot pool in order to submit votes on all of the definitions and implementation plan	01/31/23 - 03/01/23		
	Comment Period Info (12) Submit Comments	01/31/23 - 03/16/23	Comments Received (13)	Consideration of Comments (14)
Standard Authorization Request (7)	The Standards Committee accepted the SAR on June 15, 2022			
Drafting Team Nominations Supporting Materials Unofficial Nomination Form (Word) (5)	Nomination Period Info (6) Submit Nominations	02/09/22 - 03/10/22		
Standard Authorization Request (1) Supporting Materials Unofficial Comment Form (Word) (2)	Comment Period Info (3) Submit Comments	02/09/22 - 03/10/22	Comments Received (4)	

Standard Authorization Request (SAR)

Complete and submit this form, with attachment(s) to the [NERC Help Desk](#). Upon entering the Captcha, please type in your contact information, and attach the SAR to your ticket. Once submitted, you will receive a confirmation number which you can use to track your request.

The North American Electric Reliability Corporation (NERC) welcomes suggestions to improve the reliability of the bulk power system through improved Reliability Standards.

Requested information			
SAR Title:	Reporting ACE Definition and Associated Terms		
Date Submitted:	December 17, 2021		
SAR Requester			
Name:	Greg Park on behalf of the NERC Resources Subcommittee (RS)		
Organization:	Northwest Power Pool		
Telephone:	(503)445-1089	Email:	greg.park@nwpp.org
SAR Type (Check as many as apply)			
<input type="checkbox"/>	New Standard	<input type="checkbox"/>	Imminent Action/ Confidential Issue (SPM Section 10)
<input type="checkbox"/>	Revision to Existing Standard	<input type="checkbox"/>	Variance development or revision
<input checked="" type="checkbox"/>	Add, Modify or Retire a Glossary Term	<input type="checkbox"/>	Other (Please specify)
<input type="checkbox"/>	Withdraw/retire an Existing Standard		
Justification for this proposed standard development project (Check all that apply to help NERC prioritize development)			
<input type="checkbox"/>	Regulatory Initiation	<input checked="" type="checkbox"/>	NERC Standing Committee Identified
<input type="checkbox"/>	Emerging Risk (Reliability Issues Steering Committee) Identified	<input type="checkbox"/>	Enhanced Periodic Review Initiated
<input type="checkbox"/>	Reliability Standard Development Plan	<input type="checkbox"/>	Industry Stakeholder Identified
Industry Need (What Bulk Electric System (BES) reliability benefit does the proposed project provide?):			
The current definition of Reporting ACE has a conflict with the Western Interconnection's Automatic Time Error Correction (ATEC) process and does not allow other Interconnections to pursue ATEC. Additionally, there could be some confusion in that the terms ACE and Reporting ACE are both used throughout the standards.			
Purpose or Goal (How does this proposed project provide the reliability-related benefit described above?):			
A revised definition should provide improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.			
Project Scope (Define the parameters of the proposed project):			
The RS has a revised draft of the Reporting ACE definition that accommodates any Interconnection that has an approved Automatic Time Error Correction process. The revised definition is also shortened to remove verbiage that duplicates obligations in the BAL standards. Having duplicative language adds complexity to future changes to the applicable BAL standards.			

Requested information

Detailed Description (Describe the proposed deliverable(s) with sufficient detail for a drafting team to execute the project. If you propose a new or substantially revised Reliability Standard or definition, provide: (1) a technical justification¹ which includes a discussion of the reliability-related benefits of developing a new or revised Reliability Standard or definition, and (2) a technical foundation document (e.g., research paper) to guide development of the Standard or definition):

With the Eastern Interconnection experiencing a large amount of accumulated time error, the Resources Subcommittee has been investigating acceptable methods for correction in alignment with current standards, guidelines, and reference documents. These changes will not only allow all interconnections to implement an automated time error correction process but will also reduce confusion on what components make up the ACE used for reporting. Making the Automatic Time Error Correction (ATEC) term generic (as opposed to Western Interconnection-specific) will accommodate other acceptable approaches.

Additionally, the drafting team should consider the usage of “Reporting ACE”, “ACE”, “Reserve Sharing Group Reporting ACE”, “ACE Diversity Interchange” or other related terms associated with an ACE equation in the standards. Reporting ACE and Area Control Error (ACE (standalone term)) are both used over 100 times in the set of standards, guidelines, and reference documents. For example, The Resources Subcommittee and the Real-Time Operating Subcommittee has input to the NERC Reliability & Security Technical Committee approved Time Monitoring Reference Document which the Reporting ACE definition supports. An evaluation of all components of ACE and their associated definitions to ensure a consistent application between Responsible Entities would be beneficial to the industry.

Finally, there is a glossary term Automatic Time Error Correction (I_{ATEC}) to support BAL-004-WECC-03. If kept in the NERC Glossary, the term should be reviewed and modified as necessary (e.g. change the glossary to “ATEC (WECC)”).

Cost Impact Assessment, if known (Provide a paragraph describing the potential cost impacts associated with the proposed project):

There are no added requirements, and no additional costs are expected.

Please describe any unique characteristics of the BES facilities that may be impacted by this proposed standard development project (e.g., Dispersed Generation Resources):

No negative impacts expected. If average Frequency and Time Error are better controlled, there should be fewer manual Time Error Corrections, which would be a Reliability improvement.

To assist the NERC Standards Committee in appointing a drafting team with the appropriate members, please indicate to which Functional Entities the proposed standard(s) should apply (e.g., Transmission Operator, Reliability Coordinator, etc. See the most recent version of the NERC Functional Model for definitions):

Resource Subcommittee members, particularly those affiliated with Balancing Authorities or Reserve Sharing Groups.

¹ The NERC Rules of Procedure require a technical justification for new or substantially revised Reliability Standards. Please attach pertinent information to this form before submittal to NERC.

Requested information
Do you know of any consensus building activities ² in connection with this SAR? If so, please provide any recommendations or findings resulting from the consensus building activity.
A webinar would be appropriate.
Are there any related standards or SARs that should be assessed for impact as a result of this proposed project? If so, which standard(s) or project number(s)?
None
Are there alternatives (e.g., guidelines, white paper, alerts, etc.) that have been considered or could meet the objectives? If so, please list the alternatives.

This is not a standard. The definition change supports NERC OC Reference Documents and Guidelines.

Reliability Principles	
Does this proposed standard development project support at least one of the following Reliability Principles (Reliability Interface Principles)? Please check all those that apply.	
<input checked="" type="checkbox"/>	1. Interconnected bulk power systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions as defined in the NERC Standards.
<input checked="" type="checkbox"/>	2. The frequency and voltage of interconnected bulk power systems shall be controlled within defined limits through the balancing of real and reactive power supply and demand.
<input type="checkbox"/>	3. Information necessary for the planning and operation of interconnected bulk power systems shall be made available to those entities responsible for planning and operating the systems reliably.
<input type="checkbox"/>	4. Plans for emergency operation and system restoration of interconnected bulk power systems shall be developed, coordinated, maintained and implemented.
<input type="checkbox"/>	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk power systems.
<input type="checkbox"/>	6. Personnel responsible for planning and operating interconnected bulk power systems shall be trained, qualified, and have the responsibility and authority to implement actions.
<input type="checkbox"/>	7. The security of the interconnected bulk power systems shall be assessed, monitored and maintained on a wide area basis.
<input type="checkbox"/>	8. Bulk power systems shall be protected from malicious physical or cyber attacks.

Market Interface Principles	
Does the proposed standard development project comply with all of the following Market Interface Principles ?	Enter (yes/no)
1. A reliability standard shall not give any market participant an unfair competitive advantage.	Yes
2. A reliability standard shall neither mandate nor prohibit any specific market structure.	Yes

² Consensus building activities are occasionally conducted by NERC and/or project review teams. They typically are conducted to obtain industry inputs prior to proposing any standard development project to revise, or develop a standard or definition.

Market Interface Principles	
3. A reliability standard shall not preclude market solutions to achieving compliance with that standard.	Yes
4. A reliability standard shall not require the public disclosure of commercially sensitive information. All market participants shall have equal opportunity to access commercially non-sensitive information that is required for compliance with reliability standards.	Yes

Identified Existing or Potential Regional or Interconnection Variances	
Region(s)/ Interconnection	Explanation
<i>None</i>	

For Use by NERC Only

SAR Status Tracking (Check off as appropriate).	
<input type="checkbox"/> Draft SAR reviewed by NERC Staff <input type="checkbox"/> Draft SAR presented to SC for acceptance <input type="checkbox"/> DRAFT SAR approved for posting by the SC	<input type="checkbox"/> Final SAR endorsed by the SC <input type="checkbox"/> SAR assigned a Standards Project by NERC <input type="checkbox"/> SAR denied or proposed as Guidance document

Version History

Version	Date	Owner	Change Tracking
1	June 3, 2013		Revised
1	August 29, 2014	Standards Information Staff	Updated template
2	January 18, 2017	Standards Information Staff	Revised
2	June 28, 2017	Standards Information Staff	Updated template
3	February 22, 2019	Standards Information Staff	Added instructions to submit via Help Desk
4	February 25, 2020	Standards Information Staff	Updated template footer

Unofficial Comment Form

Project 2022-01 Reporting ACE Definition and Associated Terms Standard Authorization Request

Do not use this form for submitting comments. Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments on the **2022-01 Reporting ACE Definition and Associated Terms Standard Authorization Request (SAR)**. Comments must be submitted by **8 p.m. Eastern, Thursday, March 10, 2022**.

Additional information is available on the [project page](#). If you have questions, contact Standards Developer, [Josh Blume](#) (via email), or at 404-446-2593.

Background Information

The SAR states that the current definition of Reporting Area Control Error (ACE) presents a conflict with the Western Interconnection's Automatic Time Error Correction (ATEC) process and does not allow other Interconnections to pursue ATEC. Additionally, there is confusion in that the terms ACE and Reporting ACE are both used throughout the standards. A revised definition should provide improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.

Question

1. Do you agree with the proposed scope as described in the SAR? If you do not agree, or if you agree but have comments or suggestions for the project scope please provide your recommendation and explanation.

Yes

No

Comments:

2. Provide any additional comments for the SAR drafting team to consider, if desired.

Comments:

Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms Standard Authorization Request

Informal Comment Period Open through March 10, 2022

[Now Available](#)

A 30-day informal comment period for the **Project 2022-01 Reporting ACE Definition and Associated Terms Standard Authorization Request** is open through **8 p.m. Eastern, Thursday, March 10, 2022**.

Commenting

Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments. An unofficial Word version of the comment form is posted on the [project page](#).

- *Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.*
- *Passwords expire every **6 months** and must be reset.*
- *The SBS **is not** supported for use on mobile devices.*
- *Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.*

Next Steps

The drafting team will review all responses received during the comment period and determine the next steps of the project.

For more information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

North American Electric Reliability Corporation
3353 Peachtree Rd, NE
Suite 600, North Tower
Atlanta, GA 30326
404-446-2560 | www.nerc.com

Comment Report

Project Name: 2022-01 Reporting ACE Definition and Associated Terms | Standard Authorization Request
Comment Period Start Date: 2/9/2022
Comment Period End Date: 3/10/2022
Associated Ballots:

There were 23 sets of responses, including comments from approximately 96 different people from approximately 73 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. Do you agree with the proposed scope as described in the SAR? If you do not agree, or if you agree but have comments or suggestions for the project scope please provide your recommendation and explanation.**
- 2. Provide any additional comments for the drafting team to consider, if desired.**

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
Santee Cooper	Chris Wagner	1,3,5,6		Santee Cooper	Jennifer Richards	Santee Cooper	1,3,5,6	SERC
					Clarke Mckenzie	Santee Cooper	1,3,5,6	SERC
					Diana Scott	Santee Cooper	1,3,5,6	SERC
					LaChelle	Brooks	1,3,5,6	SERC
PJM Interconnection, L.L.C.	Elizabeth Davis	2	RF,SERC	ISO/RTO Council (IRC) Standards Review Committee (SRC)	Mike Del Viscio	PJM	2	RF
					Becky Davis	PJM	2	RF
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Charles Yeung	Southwest Power Pool, Inc. (RTO)	2	MRO
					Helen Lainis	IESO	2	NPCC
					Bobbi Welch	Midcontinent ISO, Inc.	2	RF
					Al Miremadi	CAISO	2	WECC
					Dana Showalter	Electric Reliability Council of Texas, Inc.	2	Texas RE
					Kathleen Goodman	ISO-NE	2	NPCC
Entergy	Julie Hall	1,3,6		Entergy	Oliver Burke	Entergy - Entergy Services, Inc.	1	SERC
					Jamie Prater	Entergy	5	SERC
MRO	Kendra Buesgens	1,2,3,4,5,6	MRO	MRO NSRF	Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Christopher Bills	City of Independence Power & Light	3,5	MRO
					Fred Meyer	Algonquin Power Co.	3	MRO

					Jamie Monette	Allete - Minnesota Power, Inc.	1	MRO
					Larry Heckert	Alliant Energy Corporation Services, Inc.	4	MRO
					Marc Gomez	Southwestern Power Administration	1	MRO
					Matthew Harward	Southwest Power Pool, Inc.	2	MRO
					LaTroy Brumfield	American Transmission Company, LLC	1	MRO
					Bryan Sherrow	Kansas City Board Of Public Utilities	1	MRO
					Terry Harbour	MidAmerican Energy	1,3	MRO
					Jamison Cawley	Nebraska Public Power	1,3,5	MRO
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					David Heins	Omaha Public Power District	1,3,5,6	MRO
					George Brown	Acciona Energy North America	5	MRO
Duke Energy	Kim Thomas	1,3,5,6	FRCC,RF,SERC,Texas RE	Duke Energy	Laura Lee	Duke Energy	1	SERC
					Dale Goodwine	Duke Energy	5	SERC
					Greg Cecil	Duke Energy	6	RF
Southern Company - Southern Company Services, Inc.	Pamela Hunter	1,3,5,6	SERC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC
					Joel Dembowski	Southern Company - Alabama	3	SERC

						Power Company		
					Ron Carlsen	Southern Company - Southern Company Generation	6	SERC
					Jim Howell	Southern Company - Southern Company Services, Inc. - Gen	5	SERC
Northeast Power Coordinating Council	Ruida Shu	1,2,3,4,5,6,7,8,9,10	NPCC	NPCC Regional Standards Committee	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Randy MacDonald	New Brunswick Power	2	NPCC
					Glen Smith	Entergy Services	4	NPCC
					Alan Adamson	New York State Reliability Council	7	NPCC
					David Burke	Orange & Rockland Utilities	3	NPCC
					Helen Lainis	IESO	2	NPCC
					David Kiguel	Independent	7	NPCC
					Nick Kowalczyk	Orange and Rockland	1	NPCC
					Joel Charlebois	AESI - Acumen Engineered Solutions International Inc.	5	NPCC
					Mike Cooke	Ontario Power Generation, Inc.	4	NPCC
					Salvatore Spagnolo	New York Power Authority	1	NPCC

Shivaz Chopra	New York Power Authority	5	NPCC
Deidre Altobell	Con Ed - Consolidated Edison	4	NPCC
Dermot Smyth	Con Ed - Consolidated Edison Co. of New York	1	NPCC
Peter Yost	Con Ed - Consolidated Edison Co. of New York	3	NPCC
Cristhian Godoy	Con Ed - Consolidated Edison Co. of New York	6	NPCC
Nurul Abser	NB Power Corporation	1	NPCC
Randy MacDonald	NB Power Corporation	2	NPCC
Michael Ridolfino	Central Hudson Gas and Electric	1	NPCC
Vijay Puran	NYS PS	6	NPCC
ALAN ADAMSON	New York State Reliability Council	10	NPCC
Sean Cavote	PSEG - Public Service Electric and Gas Co.	1	NPCC
Brian Robinson	Utility Services	5	NPCC
Quintin Lee	Eversource Energy	1	NPCC
Jim Grant	NYISO	2	NPCC
John Pearson	ISONE	2	NPCC
Nicolas Turcotte	Hydro-Qu?bec TransEnergie	1	NPCC
Chantal Mazza	Hydro-Quebec	2	NPCC

					Michele Tondalo	United Illuminating Co.	1	NPCC
					Paul Malozewski	Hydro One Networks, Inc.	3	NPCC
					Sean Bodkin	Dominion - Dominion Resources, Inc.	6	NPCC
Southwest Power Pool, Inc. (RTO)	Shannon Mickens	2	MRO,SPP RE,WECC	SPP RTO	Shannon Mickens	Southwest Power Pool Inc.	2	MRO
					Matt Harward	Southwest Power Pool Inc.	2	MRO
					Bryan Wood	Southwest Power Pool Inc.	2	MRO
					Jim Williams	Southwest Power Pool Inc.	2	MRO
					Derek Hawkins	Southwest Power Pool Inc.	2	MRO
					Yasser Bahbaz	Southwest Power Pool Inc.	2	MRO
					Scott Aclin	Southwest Power Pool Inc.	2	MRO

1. Do you agree with the proposed scope as described in the SAR? If you do not agree, or if you agree but have comments or suggestions for the project scope please provide your recommendation and explanation.

Jessica Lopez - APS - Arizona Public Service Co. - 1,3,5,6

Answer No

Document Name

Comment

AZPS recognizes the need to clarify the current definition of Reporting Area Control Error (ACE) as it presents conflict with the Western Interconnection's Automatic Time Error Correction (ATEC) process and the proposed change would reduce any confusion, however, AZPS agrees with EEI's comments in that greater specificity in detail and technical justification is needed.

AZPS supports the following commented submitted by EEI:

EEI notes that the SAR may have merit but presently it lacks sufficient detail and technical justification to support its approval. The SAR states that "Reporting ACE and Area Control Error (ACE (standalone term)) are both used over 100 times in the set of standards, guidelines, and reference documents" and therefore any change will have substantial impacts. Therefore, EEI believes that any project that proposes to make change of this magnitude should be backed with a technical whitepaper explaining the need and containing a proposed solution.

Among the questions that should be addressed in the whitepaper include the following:

1. Please explain in greater detail the current accumulated time error issues within the Eastern Interconnection, and its cause.
2. Please provide details to the proposed solution that the Resources Committee (RS) has developed to address the issue within the Eastern Interconnection, and other interconnections should it be needed.
3. Please provide details and analysis on the impact of the proposed change; noting the expansive use of the terms Reporting ACE and ACE (standalone term) in Reliability Standards and Guidelines.
4. The project also proposes to change the ATEC definition used by WECC within their BAL-004-WECC-03 Reliability Standard. How will the SDT ensure that any change made to this defined term will not have negative impacts on WECC processes and their BAL-004 Reliability Standard? If this has already been done, those details should be included in the whitepaper.

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer No

Document Name

Comment

EEl notes that the SAR may have merit but presently it lacks sufficient detail and technical justification to support its approval. The SAR states that “Reporting ACE and Area Control Error (ACE (standalone term)) are both used over 100 times in the set of standards, guidelines, and reference documents” and therefore any change will have substantial impacts. Therefore, EEl believes that any project that proposes to make change of this magnitude should be backed with a technical whitepaper explaining the need and containing a proposed solution.

Among the issues that should be addressed in the whitepaper include the following:

1. Please explain in greater detail the current accumulated time error issues within the Eastern Interconnection, and its cause.
2. Please provide details to the proposed solution that the Resources Committee (RS) has developed to address the issue within the Eastern Interconnection, and other interconnections should it be needed.
3. Please provide details and analysis on the impact of the proposed change; noting the expansive use of the terms Reporting ACE and ACE (standalone term) in Reliability Standards and Guidelines.
4. The project also proposes to change the ATEC definition used by WECC within their BAL-004-WECC-03 Reliability Standard. How will the SDT ensure that any change made to this defined term will not have negative impacts on WECC processes and their BAL-004 Reliability Standard? If this has already been done, those details should be included in the whitepaper.

Likes 0

Dislikes 0

Response

Alan Kloster - Evergy - 1,3,5,6 - MRO

Answer

No

Document Name

Comment

Evergy supports and incorporates by reference Edison Electric Institute’s (EEl) response to Question 1.

Likes 0

Dislikes 0

Response

Nazra Gladu - Manitoba Hydro - 1,3,5,6

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer Yes

Document Name

Comment

Texas RE supports the purpose of the SAR to better align common terms across Interconnections.

Likes 0

Dislikes 0

Response

Pamela Hunter - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC, Group Name Southern Company

Answer Yes

Document Name

Comment

The ATEC component should be available to all interconnections and will allow for better management of interconnection time error and inadvertent.

Likes 0

Dislikes 0

Response

Matthew Jaramilla - Salt River Project - NA - Not Applicable - WECC

Answer Yes

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Kim Thomas - Duke Energy - 1,3,5,6 - SERC,RF, Group Name Duke Energy

Answer	Yes
Document Name	
Comment	
No comments.	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC Regional Standards Committee	
Answer	Yes
Document Name	
Comment	
We support the proposed scope as described in the SAR.	
Likes 0	
Dislikes 0	
Response	
Chris Wagner - Santee Cooper - 1,3,5,6, Group Name Santee Cooper	
Answer	Yes
Document Name	
Comment	
While Santee Cooper supports the intent of this SAR to allow Automatic Time Error Correction in any Interconnection that chooses to implement it, we believe that the scope should be revised to clarify the proposed new definitions and how the impacted standards will be addressed.	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity System Operator - 2	
Answer	Yes
Document Name	

Comment

Likes 0

Dislikes 0

Response**Steven Rueckert - Western Electricity Coordinating Council - 10****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Glenn Barry - Los Angeles Department of Water and Power - 1,3,5,6****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Julie Hall - Entergy - 1,3,6, Group Name Entergy****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response

Dwanique Spiller - Berkshire Hathaway - NV Energy - 5 - WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - Public Service Company of New Mexico - NA - Not Applicable - WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Marc Donaldson - Tacoma Public Utilities (Tacoma, WA) - 1,3,4,5,6

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Elizabeth Davis - PJM Interconnection, L.L.C. - 2 - SERC,RF, Group Name ISO/RTO Council (IRC) Standards Review Committee (SRC)

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SPP RTO

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Darcy O'Connell - California ISO - 2	
Answer	
Document Name	
Comment	
CAISO agrees with comments submitted by the ISO/RTO Counsel (IRC) Standards Review Committee	
Likes 0	
Dislikes 0	
Response	

2. Provide any additional comments for the drafting team to consider, if desired.

Bobbi Welch - Midcontinent ISO, Inc. - 2

Answer

Document Name

Comment

MISO supports the comments submitted by the MRO NERC Standards Review Forum (MRO NSRF). Thank you.

Likes 0

Dislikes 0

Response

Shannon Mickens - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC, Group Name SPP RTO

Answer

Document Name

Comment

SPP recommends that the SAR Drafting Team consider adding a list of the applicable documents (Standards, Reliability Guideline, and Technical Reference Documents) which are impacted by the proposed definitions to the Detailed Description on page 2. Such action is an efficient way to ensure industry's situational awareness of the various NERC documents that are impacted by these proposed definition revisions; and will aid registered entities in its compliance goals.

Likes 0

Dislikes 0

Response

Kendra Buesgens - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer

Document Name

Comment

To ensure industry awareness, the MRO NSRF recommends the Standard Drafting Team (SDT) consider providing the list of applicable NERC documents (i.e. Standards, Reliability Guidelines and/or Technical Reference Documents) which have the potential to be impacted by proposed changes to the existing definitions as part of the Detailed Description on page 2. This is an efficient way to inform industry of potential impacts, thereby enhancing situational awareness which will aid entities in ensuring all compliance obligations are met.

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - Public Service Company of New Mexico - NA - Not Applicable - WECC

Answer

Document Name

Comment

No additional comments.

Likes 0

Dislikes 0

Response

Jessica Lopez - APS - Arizona Public Service Co. - 1,3,5,6

Answer

Document Name

Comment

N/A

Likes 0

Dislikes 0

Response

Kim Thomas - Duke Energy - 1,3,5,6 - SERC,RF, Group Name Duke Energy

Answer

Document Name

Comment

No additional comments.

Likes 0

Dislikes 0

Response

Matthew Jaramilla - Salt River Project - NA - Not Applicable - WECC

Answer

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Unofficial Nomination Form

Project 2022-01 Reporting ACE Definition and Associated Terms Drafting Team Members

Do not use this form for submitting nominations. Use the [electronic form](#) to submit nominations for **Project 2022-01 Reporting ACE Definition and Associated Terms** drafting team members by **8 p.m. Eastern, Thursday, March 10, 2022**. This unofficial version is provided to assist nominees in compiling the information necessary to submit the electronic form.

Additional information is available on the [project page](#). If you have questions, contact Standards Developer, [Josh Blume](#) (via email), or at 404-446-2593.

By submitting a nomination form, you are indicating your willingness and agreement to actively participate in face-to-face meetings and conference calls.

Previous drafting or review team experience is beneficial, but not required. A brief description of the desired qualifications, expected commitment, and other pertinent information is included below.

Background

The Standard Authorization Request (SAR) states that the current definition of Reporting Area Control Error (ACE) presents a conflict with the Western Interconnection's Automatic Time Error Correction (ATEC) process and does not allow other Interconnections to pursue ATEC. Additionally, there is confusion in that the terms ACE and Reporting ACE are both used throughout the standards. A revised definition should provide improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.

Standards affected: Multiple standards reference the Reporting ACE definition, including BAL.

Drafting Team activities include participation in technical conferences, stakeholder communications and outreach events, periodic drafting team meetings and conference calls. Approximately one face-to-face meeting per quarter can be expected (on average three full working days each meeting) with conference calls scheduled as needed to meet the agreed-upon timeline the drafting team sets forth. NERC is seeking individuals who perform responsibilities under the BAL standards:

- Real-time monitoring
- Balancing Authority
- Operational Planning Analysis
- Real-time Assessments

Name:	
Organization:	
Address:	
Telephone:	
E-mail:	

Please briefly describe your experience and qualifications to serve on the requested Standard Drafting Team (Bio):

If you are currently a member of any NERC drafting team, please list each team here:

- Not currently on any active SAR or standard drafting team.
- Currently a member of the following SAR or standard drafting team(s):

If you previously worked on any NERC drafting team please identify the team(s):

- No prior NERC SAR or standard drafting team.
- Prior experience on the following team(s):

Acknowledgement that the nominee has read and understands both the *NERC Participant Conduct Policy* and the *Standard Drafting Team Scope* documents, available on NERC Standards Resources.

- Yes, the nominee has read and understands these documents.

Select each NERC Region in which you have experience relevant to the Project for which you are volunteering:

- | | | |
|-------------------------------|-----------------------------------|--|
| <input type="checkbox"/> MRO | <input type="checkbox"/> SERC | <input type="checkbox"/> NA – Not Applicable |
| <input type="checkbox"/> NPCC | <input type="checkbox"/> Texas RE | |
| <input type="checkbox"/> RF | <input type="checkbox"/> WECC | |

Select each Industry Segment that you represent:

<input type="checkbox"/>	1 — Transmission Owners
<input type="checkbox"/>	2 — RTOs, ISOs
<input type="checkbox"/>	3 — Load-serving Entities
<input type="checkbox"/>	4 — Transmission-dependent Utilities
<input type="checkbox"/>	5 — Electric Generators
<input type="checkbox"/>	6 — Electricity Brokers, Aggregators, and Marketers
<input type="checkbox"/>	7 — Large Electricity End Users
<input type="checkbox"/>	8 — Small Electricity End Users
<input type="checkbox"/>	9 — Federal, State, and Provincial Regulatory or other Government Entities
<input type="checkbox"/>	10 — Regional Reliability Organizations and Regional Entities
<input type="checkbox"/>	NA — Not Applicable

Select each Function¹ in which you have current or prior expertise:

<input type="checkbox"/> Balancing Authority	<input type="checkbox"/> Transmission Operator
<input type="checkbox"/> Compliance Enforcement Authority	<input type="checkbox"/> Transmission Owner
<input type="checkbox"/> Distribution Provider	<input type="checkbox"/> Transmission Planner
<input type="checkbox"/> Generator Operator	<input type="checkbox"/> Transmission Service Provider
<input type="checkbox"/> Generator Owner	<input type="checkbox"/> Purchasing-selling Entity
<input type="checkbox"/> Interchange Authority	<input type="checkbox"/> Reliability Coordinator
<input type="checkbox"/> Load-serving Entity	<input type="checkbox"/> Reliability Assurer
<input type="checkbox"/> Market Operator	<input type="checkbox"/> Resource Planner
<input type="checkbox"/> Planning Coordinator	

¹ These functions are defined in the NERC [Functional Model](#), which is available on the NERC web site.

Provide the names and contact information for two references who could attest to your technical qualifications and your ability to work well in a group:

Name:		Telephone:	
Organization:		E-mail:	
Name:		Telephone:	
Organization:		E-mail:	

Provide the name and contact information of your immediate supervisor or a member of your management who can confirm your organization’s willingness to support your active participation.

Name:		Telephone:	
Title:		Email:	

Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Nomination Period Open through March 10, 2022

[Now Available](#)

Nominations are being sought for **Project 2022-01 Reporting ACE Definition and Associated Terms** drafting team members through **8 p.m. Eastern, Thursday, March 10, 2022**.

Use the [electronic form](#) to submit a nomination and contact [Wendy Muller](#) regarding issues with the system. An unofficial Word version of the nomination form is posted on the [Standard Drafting Team Vacancies](#) page and the [project page](#).

By submitting a nomination form, you are indicating your willingness and agreement to actively participate in face-to-face meetings and conference calls. Previous drafting or review team experience is beneficial, but not required.

Drafting team activities include participation in technical conferences, stakeholder communications and outreach events, periodic drafting team meetings and conference calls. Approximately one face-to-face meeting per quarter can be expected (on average three full working days each meeting) with conference calls scheduled as needed to meet the agreed-upon timeline the drafting team sets forth. NERC is seeking individuals who perform responsibilities under the BAL standards:

- Real-time monitoring
- Balancing Authority
- Operational Planning Analysis
- Real-time Assessments

Next Steps

The Standards Committee is expected to appoint members to the drafting team in April 2022. Nominees will be notified shortly after they have been appointed.

For more information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

North American Electric Reliability Corporation
3353 Peachtree Rd, NE
Suite 600, North Tower
Atlanta, GA 30326
404-446-2560 | www.nerc.com

Standard Authorization Request (SAR)

Complete and submit this form, with attachment(s) to the [NERC Help Desk](#). Upon entering the Captcha, please type in your contact information, and attach the SAR to your ticket. Once submitted, you will receive a confirmation number which you can use to track your request.

The North American Electric Reliability Corporation (NERC) welcomes suggestions to improve the reliability of the bulk power system through improved Reliability Standards.

Requested information			
SAR Title:	Reporting ACE Definition and Associated Terms		
Date Submitted:	December 17, 2021		
SAR Requester			
Name:	Greg Park on behalf of the NERC Resources Subcommittee (RS)		
Organization:	Northwest Power Pool		
Telephone:	(503)445-1089	Email:	greg.park@westernpowerpool.org
SAR Type (Check as many as apply)			
<input type="checkbox"/>	New Standard	<input type="checkbox"/>	Imminent Action/ Confidential Issue (SPM Section 10)
<input type="checkbox"/>	Revision to Existing Standard	<input type="checkbox"/>	Variance development or revision
<input checked="" type="checkbox"/>	Add, Modify or Retire a Glossary Term	<input type="checkbox"/>	Other (Please specify)
<input type="checkbox"/>	Withdraw/retire an Existing Standard		
Justification for this proposed standard development project (Check all that apply to help NERC prioritize development)			
<input type="checkbox"/>	Regulatory Initiation	<input checked="" type="checkbox"/>	NERC Standing Committee Identified
<input type="checkbox"/>	Emerging Risk (Reliability Issues Steering Committee) Identified	<input type="checkbox"/>	Enhanced Periodic Review Initiated
<input type="checkbox"/>	Reliability Standard Development Plan	<input type="checkbox"/>	Industry Stakeholder Identified
Industry Need (What Bulk Electric System (BES) reliability benefit does the proposed project provide?):			
The current definition of Reporting ACE has a conflict with the Western Interconnection's Automatic Time Error Correction (ATEC) process and does not allow other Interconnections to pursue ATEC or similar functions. Additionally, there could be some confusion in that the terms ACE and Reporting ACE are both used throughout the standards.			
Purpose or Goal (How does this proposed project provide the reliability-related benefit described above?):			
A revised definition should provide improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.			
Project Scope (Define the parameters of the proposed project):			
The RS has recommended the Reporting ACE definition be modified to accommodate any Interconnection that has an approved Automatic Time Error Correction or other process to control inadvertent accumulation. The revised definition should be shortened to remove verbiage that			

Requested information
<p>duplicates obligations in the BAL standards. Having duplicative language adds complexity to future changes to the applicable BAL standards.</p>
<p>Detailed Description (Describe the proposed deliverable(s) with sufficient detail for a drafting team to execute the project. If you propose a new or substantially revised Reliability Standard or definition, provide: (1) a technical justification¹ which includes a discussion of the reliability-related benefits of developing a new or revised Reliability Standard or definition, and (2) a technical foundation document (e.g., research paper) to guide development of the Standard or definition):</p>
<p>With the Eastern Interconnection experiencing a large amount of accumulated time error, the Resources Subcommittee has been investigating acceptable methods for correction in alignment with current standards, guidelines, and reference documents. These changes will not only allow all interconnections to implement an automated time error correction process but will also reduce confusion on what components make up the ACE used for reporting. Making the Automatic Time Error Correction (ATEC) term generic (as opposed to Western Interconnection-specific) will accommodate other acceptable approaches.</p> <p>Additionally, the drafting team should consider the usage of “Reporting ACE”, “ACE”, “Reserve Sharing Group Reporting ACE”, “ACE Diversity Interchange” or other related terms associated with an ACE equation in the standards. Reporting ACE and Area Control Error (ACE (standalone term)) are both used over 100 times in the set of standards, guidelines, and reference documents. For example, The Resources Subcommittee and the Real-Time Operating Subcommittee has input to the NERC Reliability & Security Technical Committee approved Time Monitoring Reference Document which the Reporting ACE definition supports. An evaluation of all acceptable components of ACE and their associated definitions to ensure a consistent application between Responsible Entities would be beneficial to the industry.</p> <p>Finally, there is a glossary term Automatic Time Error Correction (I_{ATEC}) to support BAL-004-WECC-03. If kept in the NERC Glossary, the term should be reviewed and modified as necessary (e.g. change the glossary to “ATEC (WECC)”).</p>
<p>Cost Impact Assessment, if known (Provide a paragraph describing the potential cost impacts associated with the proposed project):</p>
<p>There are no added requirements, and no additional costs are expected.</p>
<p>Please describe any unique characteristics of the BES facilities that may be impacted by this proposed standard development project (e.g., Dispersed Generation Resources):</p>
<p>No negative impacts expected. If average Frequency and Time Error are better controlled, there should be fewer manual Time Error Corrections, which would be a Reliability improvement.</p>
<p>To assist the NERC Standards Committee in appointing a drafting team with the appropriate members, please indicate to which Functional Entities the proposed standard(s) should apply (e.g., Transmission Operator, Reliability Coordinator, etc. See the most recent version of the NERC Functional Model for definitions):</p>

¹ The NERC Rules of Procedure require a technical justification for new or substantially revised Reliability Standards. Please attach pertinent information to this form before submittal to NERC.

Requested information
Resource Subcommittee members, particularly those affiliated with Balancing Authorities or Reserve Sharing Groups.
Do you know of any consensus building activities ² in connection with this SAR? If so, please provide any recommendations or findings resulting from the consensus building activity.
A webinar would be appropriate.
Are there any related standards or SARs that should be assessed for impact as a result of this proposed project? If so, which standard(s) or project number(s)?
None
Are there alternatives (e.g., guidelines, white paper, alerts, etc.) that have been considered or could meet the objectives? If so, please list the alternatives.

This is not a standard. The definition change supports NERC OC Reference Documents and Guidelines.

Reliability Principles	
Does this proposed standard development project support at least one of the following Reliability Principles (Reliability Interface Principles)? Please check all those that apply.	
<input checked="" type="checkbox"/>	1. Interconnected bulk power systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions as defined in the NERC Standards.
<input checked="" type="checkbox"/>	2. The frequency and voltage of interconnected bulk power systems shall be controlled within defined limits through the balancing of real and reactive power supply and demand.
<input type="checkbox"/>	3. Information necessary for the planning and operation of interconnected bulk power systems shall be made available to those entities responsible for planning and operating the systems reliably.
<input type="checkbox"/>	4. Plans for emergency operation and system restoration of interconnected bulk power systems shall be developed, coordinated, maintained and implemented.
<input type="checkbox"/>	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk power systems.
<input type="checkbox"/>	6. Personnel responsible for planning and operating interconnected bulk power systems shall be trained, qualified, and have the responsibility and authority to implement actions.
<input type="checkbox"/>	7. The security of the interconnected bulk power systems shall be assessed, monitored and maintained on a wide area basis.
<input type="checkbox"/>	8. Bulk power systems shall be protected from malicious physical or cyber attacks.

Market Interface Principles	
Does the proposed standard development project comply with all of the following Market Interface Principles ?	Enter (yes/no)
1. A reliability standard shall not give any market participant an unfair competitive advantage.	Yes

² Consensus building activities are occasionally conducted by NERC and/or project review teams. They typically are conducted to obtain industry inputs prior to proposing any standard development project to revise, or develop a standard or definition.

Market Interface Principles	
2. A reliability standard shall neither mandate nor prohibit any specific market structure.	Yes
3. A reliability standard shall not preclude market solutions to achieving compliance with that standard.	Yes
4. A reliability standard shall not require the public disclosure of commercially sensitive information. All market participants shall have equal opportunity to access commercially non-sensitive information that is required for compliance with reliability standards.	Yes

Identified Existing or Potential Regional or Interconnection Variances	
Region(s)/ Interconnection	Explanation
<i>None</i>	

For Use by NERC Only

SAR Status Tracking (Check off as appropriate).	
<input type="checkbox"/> Draft SAR reviewed by NERC Staff <input type="checkbox"/> Draft SAR presented to SC for acceptance <input type="checkbox"/> DRAFT SAR approved for posting by the SC	<input type="checkbox"/> Final SAR endorsed by the SC <input type="checkbox"/> SAR assigned a Standards Project by NERC <input type="checkbox"/> SAR denied or proposed as Guidance document

Version History

Version	Date	Owner	Change Tracking
1	June 3, 2013		Revised
1	August 29, 2014	Standards Information Staff	Updated template
2	January 18, 2017	Standards Information Staff	Revised
2	June 28, 2017	Standards Information Staff	Updated template
3	February 22, 2019	Standards Information Staff	Added instructions to submit via Help Desk
4	February 25, 2020	Standards Information Staff	Updated template footer

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms Draft 1

The standard drafting team (SDT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The SDT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*SDT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange – (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical Reference Document: Area	Capitalized terms in definition.

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				Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an entity's Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (<i>purpose</i>) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (<i>current; see proposed revisions</i>); • Disturbance Control Standard (<i>current; proposed for retirement</i>); 	Reliability Guideline Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process Inverter-Based Resource Performance Guideline	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to

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			<ul style="list-style-type: none"> • Frequency Bias Setting (<i>current; see proposed revisions</i>); • Reporting ACE (<i>current and proposed</i>) 		Reporting ACE for compliance purposes.
Automatic Generation Control - (AGC)	A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.		<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and revised</i>) 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	Team reviewed and determined no changes
Automatic Time Error Correction – (ATEC)	The addition of a component to the ACE equation for the Western Interconnection that modifies the	The addition of a component , represented by the term I_{ATEC} , to the Reporting ACE equation for	Standards BAL-004-WECC-3	Technical Reference Document: Balancing Authority	Re-organized published glossary terms to

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	<p>control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2* B_i$ and L_{10}, $0.2* B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square 	<p>the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $-I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2* B_i$ and L_{10}; i.e. $0.2* B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute 	<p>Terms Reporting ACE (current and proposed)</p>	<p>Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, “BA_{Island}” to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to more accurately reflect each Balancing Authority’s share of Time Error impact.</p>

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	<p>(RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE/6)$ 	<p>average Frequency Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the entity's minimum Frequency Bias will be used. • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y)$ 			<p>Capitalized NERC defined terms.</p>

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	<ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - (t) * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. • TE_{offset} is 0.000 or +0.020 or -0.020. • PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off- 	<p>$* (I_{\text{actual}} - B_i * \Delta TE / 6) * BA_{\text{Island}}$</p> <p>$BA_{\text{Island}}$ = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected.</p> <ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - t * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. 			

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	<p>Peak accumulation accounting is required, where:</p> $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	<ul style="list-style-type: none"> • TE_{offset} is 0.000 or +0.020 or -0.020. • PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$			
<p>Balancing Authority Area (BAA)</p>	<p>The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains load-resource balance within this area.</p>	<p>Added Acronym</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-003-2 • COM-001-3 • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p>	<p>Added Acronym</p>

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				Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	
Balancing Contingency Event – (BCE)	<p>Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation:</p> <ol style="list-style-type: none"> a. Due to <ol style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; 	<p>Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation:</p> <ol style="list-style-type: none"> a. Due to <ol style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; 	<p>Standards BAL-002-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Added acronym and updated to correct NERC defined term.</p>

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	<p>b. And, that causes an unexpected change to the responsible entity's ACE;</p> <p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>b. And, that causes an unexpected change to the responsible entity's Reporting ACE;</p> <p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>			
<p>Control Performance Standard – (CPS)</p>	<p>The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.</p>	<p>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance and Scheduled Frequency.</p>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 (Attachment A) <p>Terms</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p>	

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			None	Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> An unplanned event that produces an abnormal system condition. Any perturbation to the electric system. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> An unplanned event that produces an abnormal system condition. Any perturbation to the electric system. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	<p>Standards</p> <ul style="list-style-type: none"> BAL-002-3 EOP-004-4 EOP-005-3 MOD-026-1 MOD-027-1 MOD-033-2 PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> Disturbance Control Standard (<i>proposed for retirement</i>); Disturbance Monitoring Equipment 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs</p> <p>Methods for Establishing IROLs</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based</p>	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Resource Performance Guideline Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018 Load Composition Guideline Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model	

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	Retire	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Retire

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Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities' control ACE equations (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities' Reporting ACE	<p>Standards</p> <ul style="list-style-type: none"> BAL-002-WECC-3 INT-009-3 <p>Terms</p> <p>Scheduled Net Interchange (NIS) <i>(current and proposed)</i></p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority's Reporting ACE to account for the Balancing Authority's Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 <p>Terms</p> <p>Reporting ACE <i>(current and proposed)</i></p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating</p>	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term "Reporting ACE" to accurately reflect

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				Reporting ACE with the NERC Reliability Standards	current terminology.
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the actual frequency and the Scheduled Frequency. ($F_A - F_S$)	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 <p>Terms</p> <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	<p>Power Plant Model Verification and Testing for Synchronous Machines</p> <p>DER_A Model Parameterization</p>	
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. ($IA - IS$)	The difference between the Balancing Authority's Actual Net Interchange and Scheduled Net Interchange. ($NI_A - NI_S$)	<p>Standards</p> <p>BAL-004-WECC-3</p> <p>Terms</p>	Technical Reference Document: Balancing and Frequency Control	Updated to correct NERC defined terms and correct

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			<ul style="list-style-type: none"> Automatic Time Error Correction (I_{ATEC}) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	acronyms.
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error.	<p>Standards None</p> <p>Terms Reporting Ace (<i>proposed</i>)</p>		New term to NERC glossary
Interchange Meter Error –(I_{ME})	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in Reporting ACE to compensate for data or equipment errors affecting any other components of Reporting ACE.	<p>Standards None</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word “calculation” for consistency

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<p>Interchange Schedule</p>	<p>An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction.</p>	<p>No changes</p>	<p>Standards MOD-028-2</p> <p>Terms</p> <ul style="list-style-type: none"> • Dynamic Interchange Schedule or Dynamic Schedule (<i>current and proposed</i>); • Net Interchange Schedule (<i>proposed for retirement</i>); • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Methods for Establishing IROs</p>	<p>Team reviewed and determined no changes</p>

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			RFI; <ul style="list-style-type: none"> • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias (<i>current and proposed</i>) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE.	Standards None Terms <ul style="list-style-type: none"> • Reliability Adjustment; • Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Actual Interchange	The algebraic sum of all metered interchange over all interconnections between two physically Adjacent Balancing Authority Areas.	Retire	Standards None Terms Inadvertent Interchange	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.

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			<i>(current; see proposed revision)</i>		
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.

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Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	<p>Utilized proper capitalization on terms that are not NERC defined.</p>
Overlap Regulation Service	<p>A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing Authority’s actual interchange, frequency response, and schedules into providing Balancing Authority’s AGC/ACE equation.</p>	<p>A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority’s Actual Net Interchange, Scheduled Net Interchange, and response to Interconnection Frequency Error.</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms None</p>	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	<p>Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net Interchange” and “response to Interconnection Frequency Error”, to accurately reflect</p>

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					current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed and determined no changes	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology and grammatical changes to improve understanding.
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities’ Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities’ Reporting ACE .	Standards <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 Terms Actual Net Interchange (current and proposed)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word “equation” for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which	(Schedule) The rate, expressed in megawatts per minute, at which	Standards None	Technical Reference Document:	Capitalized NERC defined terms

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.</p>	<p>the Interchange Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.</p>	<p>Terms Response Rate</p>	<p>Balancing and Frequency Control</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants</p> <p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>DER Modeling</p> <p>Power Plant Model</p>	<p>within the definition.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Verification for Inverter-Based Resources</p> <p>Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms</p> <ul style="list-style-type: none"> • Overlap Regulation Service 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Balancing Authority for which it is providing the Regulation Service.	specified by NERC for itself and the Balancing Authority for which it is providing the corrective response.	<p><i>(proposed)</i>;</p> <ul style="list-style-type: none"> Supplemental Regulation Service <i>(proposed)</i> 		
Reporting Area Control Error – (Reporting ACE)	<p>The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction_(ATEC). Reporting ACE is calculated as follows:</p> $\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ <p>Reporting ACE is calculated in the Western Interconnection as follows:</p> $\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ <p>Where:</p>	<p>The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows:</p> $\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{IM}$ <p>Where:</p> <ul style="list-style-type: none"> NI_A = Actual Net Interchange. NI_S = Scheduled Net Interchange. B = Frequency Bias Setting. F_A = Actual Frequency. F_S = Scheduled Frequency. 	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (I_{ME}) <i>(current and proposed)</i>; Pre-Reporting Contingency Event ACE Value; Pseudo-Tie 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included 	<ul style="list-style-type: none"> • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management. • In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of TieLine Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and 	<p><i>(current and proposed)</i></p>		

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total Interconnection generation, load, and loss;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>	<p>losses is the same as total Interconnection generation, Load, and losses;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity's Reporting ACE that results in a	Standards BAL-002-3 Terms Contingency	Reliability Guideline: Operating Reserve Management Technical Reference	Update to the NERC defined term "Reporting ACE" to accurately reflect

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>output less than or equal to the Most Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of the Most Severe Single Contingency , or (ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity. <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW • Quebec – 500 MW 	<p>loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Reliability Organization(s), or (ii) the amount listed below for the applicable Interconnection. <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW 	Event Recovery Period	Document: Area Control Error Diversity Interchange Process	current terminology. Moved note on modification of 80% threshold for readability.
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a	Retire	Standards CIP-002-5.1		Retire

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.		<p><i>(outdated reference in G&TB)</i></p> <p>Terms None</p>		
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the	<p>Standards</p> <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 <p>Terms Reserve Sharing Group Reporting ACE</p>	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced “disturbance control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	performance, the areas become a Reserve Sharing Group.	purposes of recovery from a Balancing Contingency Event, the areas become a Reserve Sharing Group.			
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group’s Reporting ACE to use the sum of the Balancing Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC defined glossary terms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Scheduled Net Interchange - (NI_s)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange.	Added acronym	<p>Standards None</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Reliability Guideline: Inadvertent Interchange</p>	Added acronym
Supplemental Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	<p>Standards None</p> <p>Terms None</p>		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Tie Line Bias (TLB)	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection Frequency Error.	Standards BAL-004-WECC-3 Terms Reporting ACE		Added acronym and capitalized defined terms.
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. The difference is caused by the accumulation of Frequency Error over a given period.	Standards None Terms • Automatic Time Error Correction (<i>current and proposed</i>); • Time Error Correction (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added acronym commonly used and minor grammatical change to definition.
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s Scheduled Frequency to return the Interconnection’s Time Error to a predetermined range.	Standards BAL-004-WECC-3 Terms • Automatic	Technical Reference Document: Balancing and Frequency Control Technical Reference	Added the word “manual” to indicate this process is not automatically implemented.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Time Error Correction (<i>current and proposed</i>); <ul style="list-style-type: none"> • Scheduled Frequency (<i>proposed</i>) 	Document: Balancing Authority Area Footprint Change Tasks	

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms

Draft 1

The standard drafting team (SDT) is seeking comment on the following new or, modified, ~~or retired~~ terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The SDT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (~~CIP~~ *SDT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or Glossary terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange (N_A) - (N_IA)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority A areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Capatalized terms in definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	another Interconnection are excluded from Actual Net Interchange.	are directly connected to another Interconnection are excluded from Actual Net Interchange.		<p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority’s net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an Actual Net Interchange (NI_A) and Scheduled Net Interchange (NI_S) , taking into account the effects of Frequency Bias, of Automatic Time Error Correction (ATEC) Inadvertent Interchange Management (IIM) , if operating in the IIM ATEC mode. For compliance usage, refer to the term Reporting	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (purpose) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (current; see proposed revisions); 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<p>ACE. ATEC is only applicable to Balancing Authorities in the Western Interconnection.</p>	<ul style="list-style-type: none"> • Disturbance Control Standard (<i>current; proposed for retirement</i>); • Frequency Bias Setting (<i>current; see proposed revisions</i>); • Reporting ACE (<i>current and proposed</i>) 	<p>Inverter-Based Resource Performance Guideline</p>	<p>and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE for compliance purposes.</p>
<p>Automatic Generation Control - (AGC)</p>	<p>A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.</p>		<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and</i> 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Improvements to</p>	<p>Team reviewed and determined no changes</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>revised)</i>	Interconnection Requirements for BPS-Connected Inverter-Based Resources	
<p>Automatic Time Error Correction is (ATEC)</p>	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p>	<p>The addition of a component to, <u>represented by the term I_{ATEC}</u>, to the <u>Reporting</u> ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange <u>and</u> to correct accumulated <u>Time Error</u>. Automatic Time Error Correction is only applicable in the Western Interconnection.</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, “BA_{Island}” to accurately reflect a BA that has lost synchronism with the</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$. ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean- 	$I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean- 			<p>remainder of the interconnection can not have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to more accurately reflect each Balancing Authority's share of Time Error impact. Capitalized NERC defined terms.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the 	<p>square (RMS) value of ten-minute average Ffrequency eError based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to pay_back primary iinadvertent iinterchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW/0.1 Hz). <u>For entities with a variable</u> 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Balancing Authority Area (MW / 0.1 Hz).</p> <ul style="list-style-type: none"> • B_S = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE/6)$ • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the 	<p><u>Frequency Bias, the entity's minimum Frequency Bias will be used.</u></p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE/6) * BA_{island}$ • <u>BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected.</u> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: • $\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - (t) * (TE_{offset})$ 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Interconnection time monitor, where:</p> $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - (t) * (TE_{\text{offset}})$ <ul style="list-style-type: none"> • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. • TE_{offset} is 0.000 or +0.020 or -0.020. 	<ul style="list-style-type: none"> • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes <u>spent performing</u> of manual Time Error Correction that occurred during <u>each</u>the hour. • TE_{offset} is 0.000 or +0.020 or -0.020. • PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: $PII_{\text{accum}}^{\text{on/offpeak}} = \text{last period's } PII_{\text{accum}}^{\text{on/offpeak}} + PII_{\text{hourly}}$			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • Pll_{accum} is the Balancing Authority Area’s accumulated Pll_{hourly} in MWh. An On-Peak and Off-Peak accumulation accounting is required, <p>where:</p> $Pll_{accum}^{on/offpeak} = \text{last period's } Pll_{accum}^{on/offpeak} + Pll_{hourly}$				
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains	Added Acronym	Standards <ul style="list-style-type: none"> • BAL-003-2 • COM-001-3 	Reliability Guideline: Operating Reserve Management	Added Acronym

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	load-resource balance within this area.		<ul style="list-style-type: none"> • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	
Balancing Contingency Event – (BCE)	Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.	Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.	<p>Standards BAL-002-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting</p>	Added acronym and updated to correct NERC defined term.

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>A. Sudden loss of generation: a. Due to i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; b. And, that causes an unexpected change to the responsible entity’s ACE; B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between</p>	<p>A. Sudden loss of generation: a. Due to i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; b. And, that causes an unexpected change to the responsible entity’s Reporting ACE; B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and</p>	<ul style="list-style-type: none"> • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	

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	<p>generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity’s ACE.</p>	<p>Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity’s <u>Reporting</u> ACE.</p>			
<p>Control Performance Standard = <u>(CPS)</u></p>	<p>The reliability standard that sets the limits of a Balancing Authority’s Area Control Error over a specified time period.</p>	<p><u>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance and Scheduled Frequency.</u></p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment A) <p>Terms</p> <p>None</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Daniel, please help.</p>

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Disturbance	<ol style="list-style-type: none"> An unplanned event that produces an abnormal system condition. Any perturbation to the electric system. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> An unplanned event that produces an abnormal system condition. Any perturbation to the electric system. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	<p>Standards</p> <ul style="list-style-type: none"> BAL-002-3 EOP-004-4 EOP-005-3 MOD-026-1 MOD-027-1 MOD-033-2 PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> Disturbance Control Standard (<i>proposed for retirement</i>); Disturbance Monitoring Equipment 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs</p> <p>Methods for Establishing IROs</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Reliability Guideline: Bulk Power System</p>	<p>Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.</p>

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Perspectives on the Adoption of IEEE 1547-2018 Load Composition Guideline Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model Verification for Inverter-Based Resources	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	RETIRE	<p>Standards BAL-002-3</p> <p>Terms None</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	RETIRE

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ control ACE equations (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting control ACE equations (or alternate control processes).	Standards <ul style="list-style-type: none"> BAL-002-WECC-3 INT-009-3 Terms Scheduled Net Interchange (NIS) (current and proposed)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Eliminated the word “equation” for consistency and eliminated the parenthetical which has no known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority’s Area Control Error equation to account for the Balancing Authority’s inverse Frequency	A <u>negative</u> number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority’s Area Control Error <u>Reporting ACE equation</u> to account for the Balancing Authority’s inverse	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms Reporting ACE (current and	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing Authority Area Footprint Change	Added language to indicate this value must be a negative number and eliminated language that was not accepted in

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	Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	Frequency Response contribution to the Interconnection <u>Frequency Error</u> , and discourage response withdrawal through secondary control systems.	<i>proposed)</i>	Tasks Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	practice (usually). Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Frequency Error	The difference between the actual and scheduled frequency. $(F_A - F_S)$	The difference between the actual <u>frequency</u> and <u>the</u> S scheduled f Frequency. $(F_A - F_S)$	Standards: <ul style="list-style-type: none"> • BAL-001-2 • MOD-027-1 Term: <ul style="list-style-type: none"> • Control Performance Standard • Reporting ACE • Frequency Regulation; 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 		
Inadvertent Interchange	The difference between the Balancing Authority’s Net Actual Interchange and Net Scheduled Interchange. (IA – IS)	The difference between the Balancing Authority’s Net Actual <u>Net</u> Interchange and Net Scheduled <u>Net</u> Interchange. (<u>NI</u> _A – <u>NI</u> _S)	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Reliability Guideline: Inadvertent Interchange	Updated to correct NERC defined terms and correct acronyms.

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Inadvertent Interchange Management – (IIM)	New term to NERC glossary	<u>A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error.</u>	Standards None Terms Reporting Ace (<i>proposed</i>)		New term to NERC glossary
Interchange Meter Error - (IME)	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation .	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word “calculation” for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink	No changes	Standards MOD-028-2 Terms <ul style="list-style-type: none">Dynamic Interchange Schedule or Dynamic	Technical Reference Document: Balancing and Frequency Control Methods for Establishing IROs	Team reviewed and determined no changes

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	Balancing Authorities involved in the transaction.		Schedule (<i>current and proposed</i>); <ul style="list-style-type: none"> • Net Interchange Schedule (<i>proposed for retirement</i>); • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; 		

Table 1: Retired, Modified, or Newly Proposed Definitions

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			<ul style="list-style-type: none"> Source Balancing Authority; Tie Line Bias (<i>current and proposed</i>) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its <u>Reporting ACE</u> Area Control Error equation.	Standards None Terms <ul style="list-style-type: none"> Reliability Adjustment; Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Actual Interchange	The algebraic sum of all metered interchange over all interconnections between two physically Adjacent Balancing Authority Areas.	Retire	Standards None Terms Inadvertent Interchange (<i>current; see proposed revision</i>)	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance rRecovery Pperiod following the econtingency event; or • Load fully removable from the system within the Disturbance Rrecovery Pperiod following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.

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Operating Reserve – Supplemental	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Rrecovery pPeriod following the contingency event; or • Load fully removable from the system within the Disturbance Rrecovery pPeriod following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing Authority’s actual interchange, frequency response, and schedules into providing	A method of providing R regulation S service in which the Balancing Authority providing the R regulation S service incorporates <u>into it’s Reporting ACE a receiving another</u> Balancing Authority’s A actual N et i nterchange, f requency r esponse and S scheduled N et i nterchange,	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net Interchange” and “response

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	Balancing Authority’s AGC/ACE equation.	and <u>response to Interconnection Frequency Error.</u> into providing Balancing Authority’s AGC /ACE equation.			to Interconnection Frequency Error”, to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed and determined no changes	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology and grammatical changes to improve understanding.

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	Standards <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 Terms Actual Net Interchange (<i>current and proposed</i>)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the l interchange s Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications Inverter-Based	Capitalized NERC defined terms within the definition.

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Resource Performance Guideline Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in	

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Transmission Planning Studies DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Regulation Service	<p>The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for</p>	<p>The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for</p>	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms <ul style="list-style-type: none"> • Overlap Regulation Service (<i>proposed</i>); • Supplemental 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

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	which it is providing the Regulation Service.	which it is providing the Regulation <u>corrective response Service</u> .	Regulation Service <i>(proposed)</i>		
Reporting ACE Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction _(ATEC) . Reporting ACE is calculated as follows: Reporting ACE = (NI _A – NI _S) – 10B (F _A – F _S) – I _{ME}	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW, <u>which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management.</u> includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction_(ATEC).	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-002-3 • BAL-005-1 Terms <ul style="list-style-type: none"> • Automatic Generation Control; • Interchange Meter Error (I_{ME}) <i>(current and proposed)</i>; • Pre-Reporting Contingency Event ACE Value; • Pseudo-Tie 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME} + I_{ATEC}$ Where: <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to</p>	<p>Reporting ACE is calculated as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME} + I_{MATEC}$ Where: <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{MATEC} = Automatic Time Error Correction <u>Inadvertent Interchange Management</u>. • <u>In the Western Interconnection this term is</u> <u>I_{ATEC}</u> All NERC Interconnections operate using the principles of</p>	<p><i>(current and proposed)</i></p>		

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control</p> <p>will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs’ generation, load, and loss is the same as total Interconnection generation, load, and loss; 2. The algebraic sum of all BAAs’ Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs’ Actual Net Interchange values is equal to zero at all times; 3. The use of a common Scheduled Frequency FS for all BAAs at all times; and, 	<p>Tie-Line Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control</p> <p>will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All <u>Each individual</u> portions of the Interconnection are<u>is</u> included in exactly one BAA so that the sum of all BAAs’ generation, Load, and losses<u>is</u> is the same as total Interconnection generation, Load, and losses<u>;</u> 2. The algebraic sum of all BAAs’ Scheduled Net Interchange is equal to zero at 			

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	4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)	all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times; 3. The use of a common Scheduled Frequency FS for all BAAs at all times; and, 4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most Severe Single Contingency , and greater than or equal to the lesser amount of:	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity's Reporting ACE that results in a loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:	Standards BAL-002-3 Terms Contingency Event Recovery Period	Reliability Guideline: Operating Reserve Management Technical Reference Document: Area Control Error Diversity Interchange Process	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Moved note on modification of 80% threshold

Table 1: Retired, Modified, or Newly Proposed Definitions

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	<p>(i) 80% of the Most Severe Single Contingency , or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.</p> <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW • Quebec – 500 MW 	<p>(i) 80% of its MSSC. <u>Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Reliability Organization(s)</u>, or</p> <p>(ii) the amount listed below for the applicable Interconnection.</p> <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW 			for readability.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i> Terms None		Retire
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply O perating R eserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling	Standards <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas become a Reserve Sharing Group.</p>	<p>energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in <u>more quickly</u> (e.g., between zero and ten minutes) then, for the purposes of <u>recovery from a Balancing Contingency Event disturbance control performance</u>, the areas become a Reserve Sharing Group.</p>	<p>Terms Reserve Sharing Group Reporting ACE</p>		<p>“disturbance control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.</p>
<p>Reserve Sharing Group Reporting ACE</p>	<p>At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities</p>	<p>At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the <u>Reporting</u> ACEs (or equivalent as calculated at such time of measurement) of the Balancing</p>	<p>Standards BAL-001-2</p> <p>Terms None</p>		<p>Edited to accurately require a Reserve Sharing Group’s Reporting ACE to use the sum</p>

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	participating in the RSG at the time of measurement.	Authorities participating in the RSG at the time of measurement.			of the Balancing Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange (N_s) - (N_i)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing	Added acronym	Standards None Terms Reporting ACE	Technical Reference Document: Balancing and Frequency Control	Added acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange.</p>		<p><i>(current and proposed)</i></p>	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
<p>Supplemental Regulation Service</p>	<p>A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.</p>	<p>A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority's <u>Reporting</u> ACE.</p>	<p>Standards None</p> <p>Terms None</p>		<p>Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Tie Line Bias <u>(TLB)</u>	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection F frequency e Error.	Standards BAL-004-WECC-3 Terms Reporting ACE		Added acronym and capitalized defined terms.
Time Error <u>(TE)</u>	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time-error <u>The difference</u> is caused by the accumulation of Frequency Error over a given period.	Standards None Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<i>current and proposed</i>); Time Error Correction (<i>current and proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added acronym commonly used and minor grammatical change to definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s S cheduled F requency to return the Interconnection’s Time Error to a predetermined range value.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Automatic Time Error Correction (<i>current and proposed</i>); • Scheduled Frequency (<i>proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

Implementation Plan

Project 2022-01 Reporting ACE Definition and Associated Terms

Definitions of Terms included in the *Glossary of Terms used in NERC Reliability Standards*

Proposed New, Modified, and Retired Terms in the NERC Glossary

This section includes all newly defined or revised terms proposed for inclusion in the *Glossary of Terms used in NERC Reliability Standards* (“*Glossary*”), as well as current NERC *Glossary* terms proposed for retirement. The new and revised definitions are included in **Table A**.

No changes to the Reliability Standards in which these terms are used are proposed as part of Project 2022-01.

Proposed New Definition(s):

- Inadvertent Interchange Management (IIM)

Proposed Modified Definition(s):

- Actual Net Interchange (NI_A)
- Area Control Error (ACE)
- Automatic Time Error Correction (ATEC)
- Balancing Authority Area (BAA)
- Balancing Contingency Event (BCE)
- Control Performance Standard (CPS)
- Disturbance
- Dynamic Interchange Schedule or Dynamic Schedule
- Frequency Bias Setting (FBS)

- Frequency Error
- Implemented Interchange
- Inadvertent Interchange
- Interchange Meter Error -(IME)
- Operating Reserve – Spinning
- Operating Reserve – Supplemental
- Overlap Regulation Service
- Pseudo-Tie
- Ramp Rate or Ramp
- Regulation Service
- Reportable Balancing Contingency Event (RBCE)
- Reporting Area Control Error (Reporting ACE)
- Reserve Sharing Group (RSG)
- Reserve Sharing Group Reporting ACE
- Scheduled Frequency
- Scheduled Net Interchange (NIs)
- Supplemental Regulation Service
- Tie Line Bias (TLB)
- Time Error (TE)
- Time Error Correction (TEC)

Proposed Retirement(s) of Approved Definition(s):

- Disturbance Control Standard
- Net Actual Interchange
- Net Interchange Schedule
- Net Scheduled Interchange
- Reportable Disturbance

Background

Project 2022-01 Reporting Ace Definition and Associated Terms was initiated in February 2022 to address an issue, identified by the Resources Subcommittee of the NERC Reliability and Security Technical Committee, regarding the current definition of the NERC defined term Reporting ACE. Specifically, the Resources Subcommittee identified a conflict in the current definition of Reporting ACE with the Western Interconnection’s Automatic Time Error Correction process. The Resources Subcommittee recommended making the Automatic Time Error Correction (ATEC) term generic to allow all Interconnections to implement an automated time error correction process and also revising related defined terms for consistency and clarity.

General Considerations

The Project 2022-01 standard drafting team has proposed one new definition for inclusion in the NERC *Glossary*, revisions to several defined terms, and the retirement of several approved terms that are no longer used in any NERC Reliability Standard or defined term or would no longer be used in any defined term following approval of other revised definitions that currently use those terms. Significant revisions are proposed to the definitions of several terms, such as Area Control Error and Reporting Area Control Error – Reporting ACE, that may require entities to update their documentation and related compliance materials. Other revisions are clarifying in nature, such as the proposed revisions to the definition for the term Time Error (TE). The standard drafting team also proposes revisions to the definitions of certain terms so that less-used defined terms used within those terms may be retired. For ease of implementation and to avoid administrative burden, a twelve month implementation period for all new, revised, and retired terms is proposed.

Effective Date for all New and Revised Definitions for NERC *Glossary* Terms

Where approval by an applicable governmental authority is required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the effective date of the applicable governmental authority's order approving the definitions, or as otherwise provided for by the applicable governmental authority.

Where approval by an applicable governmental authority is not required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the date the definitions are adopted by the NERC Board of Trustees, or as otherwise provided for in that jurisdiction.

Retirement Date

Currently Effective Definitions

The currently effective definitions of the revised defined terms, as well as the defined terms Disturbance Control Standard, Net Actual Interchange, Net Interchange Schedule, Net Scheduled Interchange, and Reportable Disturbance shall be retired immediately prior to the effective date of the revised definitions in the particular jurisdiction in which the revised definitions are becoming effective.

Table A: New, Revised, and Retired Terms

Retired, Modified, or Newly Proposed Definitions					
NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange – (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent	Capitalized terms in definition.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Interchange	
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority’s net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an entity’s Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (<i>purpose</i>) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (<i>current; see proposed revisions</i>); • Disturbance Control Standard (<i>current; proposed for retirement</i>); • Frequency Bias Setting (<i>current; see proposed revisions</i>); 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based Resource Performance Guideline</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE for compliance purposes.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Reporting ACE (<i>current and proposed</i>) 		
Automatic Generation Control - (AGC)	A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.		Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Joint Control; Regulating Reserve; Tie Line Bias (<i>current and revised</i>) 	Technical Reference Document: Balancing and Frequency Control Inverter-Based Resource Performance Guideline Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	Team reviewed and determined no changes
Automatic Time Error Correction – (ATEC)	The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic	The addition of a component, represented by the term I_{ATEC} , to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and	Standards BAL-004-WECC-3 Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Re-organized published glossary terms to reflect changes made during the standard drafting process. Published

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$. ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every 	<p>to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $-I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area 		<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>term was unreadable. Added an islanding term, "BA_{island}" to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to more accurately reflect each Balancing Authority's share of Time Error impact. Capitalized NERC defined terms.</p>

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{actual} - B_i * \Delta TE/6)$ • II_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{end}$ 	<p>within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the entity's minimum Frequency Bias will be used. • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{actual} - B_i * \Delta TE/6) * BA_{island}$ • BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. • II_{actual} is the hourly 			

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>hour – TE_{begin hour} – TD_{adj} – (t)*(TE_{offset})</p> <ul style="list-style-type: none"> • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. • TE_{offset} is 0.000 or +0.020 or - 0.020. • PII_{accum} is the Balancing Authority Area’s accumulated PII_{hourly} in MWh. An On-Peak and Off-Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	<p>Inadvertent Interchange for the last hour.</p> <ul style="list-style-type: none"> • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: • ΔTE = TE_{end hour} – TE_{begin hour} – TD_{adj} – t*(TE_{offset}) • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. • TE_{offset} is 0.000 or +0.020 or - 0.020. • PII_{accum} is the Balancing Authority Area’s accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, 			

Retired, Modified, or Newly Proposed Definitions					
NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<p>where:</p> $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains load-resource balance within this area.	Added Acronym	<p>Standards</p> <ul style="list-style-type: none"> BAL-003-2 COM-001-3 EOP-004-4 EOP-011-1 MOD-004-1 PRC-005-6 TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC</p>	Added Acronym

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Standards	
Balancing Contingency Event – (BCE)	<p>Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation:</p> <ul style="list-style-type: none"> a. Due to <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; b. And, that causes an unexpected change to the responsible entity’s ACE; <p>B. Sudden loss of an Import, due to forced outage of transmission equipment that</p>	<p>Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation:</p> <ul style="list-style-type: none"> a. Due to <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; b. And, that causes an unexpected change to the responsible entity’s Reporting ACE; <p>B. Sudden loss of an import, due to forced outage of</p>	<p>Standards BAL-002-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Added acronym and updated to correct NERC defined term.</p>

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>			
<p>Control Performance Standard – (CPS)</p>	<p>The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.</p>	<p>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance and Scheduled Frequency.</p>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 (Attachment A) <p>Terms None</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange</p>	<p>Daniel, please help.</p>

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control Standard <i>(proposed for retirement)</i>; • Disturbance Monitoring Equipment 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs</p> <p>Methods for Establishing IROs</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p>	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Retired, Modified, or Newly Proposed Definitions					
NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018 Load Composition Guideline Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model Verification for	

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	Retire	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Retire

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
<p>Dynamic Interchange Schedule or Dynamic Schedule</p>	<p>A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ control ACE equations (or alternate control processes).</p>	<p>A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIs) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting ACE</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-WECC-3 • INT-009-3 <p>Terms Scheduled Net Interchange (NIs) <i>(current and proposed)</i></p>	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	<p>Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Eliminated the word “equation” for consistency and eliminated the parenthetical which has no known application.</p>
<p>Frequency Bias Setting (FBS)</p>	<p>A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority’s Area Control Error equation to account for the Balancing Authority’s inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.</p>	<p>A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority’s Reporting ACE to account for the Balancing Authority’s Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms Reporting ACE <i>(current and proposed)</i></p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference</p>	<p>Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.</p>

Retired, Modified, or Newly Proposed Definitions					
NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Document: Integrating Reporting ACE with the NERC Reliability Standards	
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the actual frequency and the Scheduled Frequency. ($F_A - F_S$)	Standards: <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Term: <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	
Inadvertent	The difference between the	The difference between the	Standards	Technical	Updated to correct

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Interchange	Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. (IA – IS)	Balancing Authority's Actual Net Interchange and Scheduled Net Interchange. (NI _A – NI _S)	BAL-004-WECC-3 Terms <ul style="list-style-type: none">• Automatic Time Error Correction (I_{ATEC}) (<i>current and proposed</i>);• Dynamic Transfer;• Primary Inadvertent Interchange (WECC)	Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Reliability Guideline: Inadvertent Interchange	NERC defined terms and correct acronyms.
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error.	Standards None Terms Reporting Ace (<i>proposed</i>)		New term to NERC glossary
Interchange Meter Error - (I_{ME})	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any	A term used in Reporting ACE to compensate for data or equipment errors affecting any other	Standards None	Technical Reference Document:	Eliminated the word “calculation” for consistency

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	other components of the Reporting ACE calculation.	components of Reporting ACE.	Terms Reporting ACE <i>(current and proposed)</i>	Integrating Reporting ACE with the NERC Reliability Standards	
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction.	No changes	Standards MOD-028-2 Terms <ul style="list-style-type: none"> • Dynamic Interchange Schedule or Dynamic Schedule <i>(current and proposed)</i>; • Net Interchange Schedule <i>(proposed for retirement)</i>; • Net Scheduled Interchange <i>(proposed for retirement)</i>; • Ramp Rate or 	Technical Reference Document: Balancing and Frequency Control Methods for Establishing IROLs	Team reviewed and determined no changes

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			Ramp (<i>see proposed revisions</i>); <ul style="list-style-type: none"> Reliability Adjustment RFI; Scheduling Entity; Sink Balancing Authority; Source Balancing Authority; Tie Line Bias (<i>current and proposed</i>) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE.	Standards None Terms <ul style="list-style-type: none"> Reliability Adjustment; Arranged Interchange 		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Net Actual Interchange	The algebraic sum of all metered interchange over all interconnections between two physically Adjacent Balancing Authority Areas.	Retire	Standards None Terms Inadvertent Interchange (<i>current; see proposed revision</i>)	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance recovery period following the contingency event; or 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing and	Utilized proper capitalization on terms that are not NERC defined.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<ul style="list-style-type: none"> Load fully removable from the system within the Disturbance recovery period following the contingency event. 		<p>Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	
Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance recovery period following the contingency event; or Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	<p>Utilized proper capitalization on terms that are not NERC defined.</p>
Overlap Regulation Service	<p>A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing Authority’s actual interchange, frequency response, and schedules into providing Balancing Authority’s AGC/ACE</p>	<p>A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority’s Actual Net Interchange, Scheduled Net Interchange, and response to Interconnection</p>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 <p>Terms None</p>	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	<p>Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net Interchange” and “response to</p>

Retired, Modified, or Newly Proposed Definitions

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	equation.	Frequency Error.			Interconnection Frequency Error”, to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed and determined no changes	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology and grammatical changes to improve understanding.
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities’ Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities’ Reporting ACE .	Standards <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 Terms Actual Net Interchange (current and proposed)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word “equation” for consistency and eliminated the parenthetical which has no known application.

Retired, Modified, or Newly Proposed Definitions

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<p>Ramp Rate or Ramp</p>	<p>(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.</p>	<p>(Schedule) The rate, expressed in megawatts per minute, at which the Interchange Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.</p>	<p>Standards None</p> <p>Terms Response Rate</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants</p> <p>Reliability Guideline: Model Verification of Aggregate DER</p>	<p>Capitalized NERC defined terms within the definition.</p>

Retired, Modified, or Newly Proposed Definitions					
NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Models used in Planning Studies</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p> <p>Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	
Regulation Service	The process whereby one Balancing Authority contracts to provide	The process whereby one Balancing Authority contracts to provide	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 	Technical Reference	

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the corrective response.	<ul style="list-style-type: none"> BAL-003-2 Terms <ul style="list-style-type: none"> Overlap Regulation Service (<i>proposed</i>); Supplemental Regulation Service (<i>proposed</i>) 	Document: Integrating Reporting ACE with the NERC Reliability Standards	
Reporting Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction (ATEC). Reporting ACE is calculated as follows: Reporting ACE = (NI _A – NI _S) – 10B (F _A	The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows: Reporting ACE = (NI _A – NI _S) – 10B (F _A – F _S) – I _{ME} + I _{IM} Where: <ul style="list-style-type: none"> NI_A = Actual Net Interchange. NI_S = Scheduled Net Interchange. 	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 Terms <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

Retired, Modified, or Newly Proposed Definitions

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	<p>$- F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are)</p>	<ul style="list-style-type: none"> • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management. • In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of TieLine Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in 	<ul style="list-style-type: none"> • Pre-Reporting Contingency Event ACE Value; • Pseudo-Tie (<i>current and proposed</i>) 	<p>Reference Document: Area Control Error Diversity Interchange Process</p>	

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total Interconnection generation, load, and loss; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times; 3. The use of a common Scheduled Frequency FS for all BAAs at all times; and, 4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.) 	<p>exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses;</p> <ol style="list-style-type: none"> 2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times; 3. The use of a common Scheduled Frequency for all BAAs at all times; and, 4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.) 			

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
<p>Reportable Balancing Contingency Event – (RBCE)</p>	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of the Most Severe Single Contingency , or (ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity. <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW • Quebec: 500 MW 	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity’s Reporting ACE that results in a loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Reliability Organization(s), or (ii) the amount listed below for the applicable Interconnection. <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW 	<p>Standards BAL-002-3</p> <p>Terms Contingency Event Recovery Period</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Moved note on modification of 80% threshold for readability.</p>

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i> Terms None		Retire
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a	Standards <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 Terms Reserve Sharing Group Reporting ACE	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced “disturbance control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.

Retired, Modified, or Newly Proposed Definitions					
NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	become a Reserve Sharing Group.	Balancing Contingency Event, the areas become a Reserve Sharing Group.			
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group's Reporting ACE to use the sum of the Balancing Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC defined glossary terms.

Retired, Modified, or Newly Proposed Definitions

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<p>Scheduled Net Interchange - (NIs)</p>	<p>The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange.</p>	<p>Added acronym</p>	<p>Standards None</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Added acronym</p>

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Supplemental Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	Standards None Terms None		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection Frequency Error.	Standards BAL-004-WECC-3 Terms Reporting ACE		Added acronym and capitalized defined terms.
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. The difference is caused by the accumulation of Frequency Error over a given period.	Standards None Terms <ul style="list-style-type: none">Automatic Time Error Correction (<i>current and proposed</i>);Time Error Correction	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC	Added acronym commonly used and minor grammatical change to definition.

Retired, Modified, or Newly Proposed Definitions

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			<i>(current and proposed)</i>	Reliability Standards	
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s Scheduled Frequency to return the Interconnection’s Time Error to a predetermined range.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Automatic Time Error Correction <i>(current and proposed)</i>; • Scheduled Frequency <i>(proposed)</i> 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

Unofficial Comment Form

Project 2022-01 Reporting ACE Definition and Associated Terms

Do not use this form for submitting comments. Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments on **Project 2022-01 Reporting ACE Definition and Associated Terms**. Comments must be submitted by **8 p.m. Eastern, Thursday, March, 16, 2023**.

Additional information is available on the [project page](#). If you have questions, contact Standards Developer, [Josh Blume](#) (via email), or at 404-446-2593.

Background Information

Project 2022-01 Reporting ACE Definition and Associated Terms was initiated in February 2022 to address an issue, identified by the Resources Subcommittee (RS) of the NERC Reliability and Security Technical Committee, regarding the current definition of the NERC defined term Reporting ACE. Specifically, the RS identified a conflict in the current definition of Reporting ACE with the Western Interconnection's Automatic Time Error Correction (ATEC) process. The RS recommended making the ATEC term generic to allow all Interconnections to implement an ATEC process and also revising related defined terms for consistency and clarity.

Questions

1. Participating Balancing Authorities achieve reductions in their generation control and Reporting ACE by utilizing a frequency neutral form of ACE exchange, called ACE Diversity Interchange (ADI). Current implementations of ADI use offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. Guidance for implementing ADI processes is documented in a NERC technical reference document; however, concerns have been raised that not all participants may choose to include ADI in their Reporting ACE, which would result in the sum of Reporting ACE not being equal to zero for that interconnection. Since ADI is not currently a defined term, the standard drafting team (SDT) would like to poll industry. Please select one of the three options:

- Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE
- Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
- Leave ADI undefined.

Comments:

2. The SDT acknowledges that the NERC Glossary Terms: Automatic Generation Control, Interchange Schedule, and Pre-Reporting Contingency Event ACE Value are connected to the ACE definition and associated definitions, but did not find modifications needed. Does the entity agree that no changes are needed to the three NERC Glossary of Terms stated above? If not, please provide a proposal and justification as to why changes are necessary.

- Yes
 No

Comments:

3. Does the entity propose any other specific changes to the NERC Glossary of Terms that were not changed and, if so, what specific term(s) are you in opposition to and why?

- Yes
 No

Comments:

4. Does the entity believe that any proposed changes to the NERC Glossary of Terms modify any requirements in existing NERC reliability standards?

- Yes
 No

Comments:

5. Does the entity oppose any specific proposed changes to the NERC Glossary of Terms and, if so, what specific term(s) are you in opposition to and why?

- Yes
 No

Comments:

6. The SDT is proposing a 12-month implementation plan. Would this proposed timeframe give enough time to implement the proposed changes? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.

- Yes
 No

Comments:

7. Please provide any additional comments for the SDT to consider, if desired.

Comments:

UPDATED Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Formal Comment Period Open through March 16, 2023
Ballot Pools Forming through March 1, 2023

[Now Available](#)

A 45-day formal comment period for the **Project 2022-01 Reporting ACE Definition and Associated Terms**, is open through **8 p.m. Eastern, Thursday, March 16, 2023**.

Commenting

Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments. An unofficial Word version of the comment form is posted on the [project page](#).

Ballot Pools

Another ballot/ballot pool has been created for the implementation plan. All ballot pools are open through **8 p.m. Eastern, Wednesday, March 1, 2023**. Registered Ballot Body members can join the ballot pools [here](#). Note that there is a separate ballot for each of the definitions and the implementation plan related to this project – a total of 36. It is necessary to join each ballot pool in order to submit votes on all of the definitions and the implementation plan.

- Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.
- Passwords expire every **6 months** and must be reset.
- The SBS **is not** supported for use on mobile devices.
- Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.

Next Steps

Initial ballots for the definitions will be conducted **March 7-16, 2023**.

For information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

North American Electric Reliability Corporation
3353 Peachtree Rd, NE
Suite 600, North Tower
Atlanta, GA 30326
404-446-2560 | www.nerc.com

Comment Report

Project Name: 2022-01 Reporting ACE Definition and Associated Terms | First Posting

Comment Period Start Date: 1/31/2023

Comment Period End Date: 3/16/2023

Associated Ballots:

- 2022-01 Reporting ACE Definition and Associated Terms Modified - Actual Net Interchange (NIA) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Area Control Error (ACE) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Automatic Time Error Correction (ATEC) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Authority Area (BAA) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Contingency Event (BCE) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Control Performance Standard (CPS) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Disturbance IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Dynamic Interchange Schedule or Dynamic Schedule IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Bias Setting (FBS) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Error IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Implemented Interchange IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Inadvertent Interchange IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Interchange Meter Error -(IME) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Spinning IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Supplemental IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Overlap Regulation Service IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Pseudo-Tie IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Ramp Rate or Ramp IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Regulation Service IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Reportable Balancing Contingency Event (RBCE) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Reporting Area Control Error (Reporting ACE) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group (RSG) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group Reporting ACE IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Frequency IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Net Interchange (NIS) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Supplemental Regulation Service IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Tie Line Bias (TLB) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error (TE) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error Correction (TEC) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms New - Inadvertent Interchange Management (IIM) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Disturbance Control Standard IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Actual Interchange IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Interchange Schedule IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Scheduled Interchange IN 1 DEF

There were 47 sets of responses, including comments from approximately 138 different people from approximately 97 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. Participating Balancing Authorities achieve reductions in their generation control and Reporting ACE by utilizing a frequency neutral form of ACE exchange, called ACE Diversity Interchange (ADI). Current implementations of ADI use offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. Guidance for implementing ADI processes is documented in a NERC technical reference document; however, concerns have been raised that not all participants may choose to include ADI in their Reporting ACE, which would result in the sum of Reporting ACE not being equal to zero for that interconnection. Since ADI is not currently a defined term, the standard drafting team (SDT) would like to poll industry. Please select one of the three options.**
- 2. The SDT acknowledges that the NERC Glossary Terms: Automatic Generation Control, Interchange Schedule, and Pre-Reporting Contingency Event ACE Value are connected to the ACE definition and associated definitions, but did not find modifications needed. Does the entity agree that no changes are needed to the three NERC Glossary of Terms stated above? If not, please provide a proposal and justification as to why changes are necessary.**
- 3. Does the entity propose any other specific changes to the NERC Glossary of Terms that were not changed and, if so, what specific term(s) are you in opposition to and why?**
- 4. Does the entity believe that any proposed changes to the NERC Glossary of Terms modify any requirements in existing NERC reliability standards?**
- 5. Does the entity oppose any specific proposed changes to the NERC Glossary of Terms and, if so, what specific term(s) are you in opposition to and why?**
- 6. The SDT is proposing a 12-month implementation plan. Would this proposed timeframe give enough time to implement the proposed changes? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.**
- 7. Please provide any additional comments for the SDT to consider, if desired.**

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
BC Hydro and Power Authority	Adrian Andreoiu	1	WECC	BC Hydro	Hootan Jarollahi	BC Hydro and Power Authority	3	WECC
					Helen Hamilton Harding	BC Hydro and Power Authority	5	WECC
					Adrian Andreoiu	BC Hydro and Power Authority	1	WECC
WEC Energy Group, Inc.	Christine Kane	3		WEC Energy Group	Christine Kane	WEC Energy Group	3	RF
					Matthew Beilfuss	WEC Energy Group, Inc.	4	RF
					Clarice Zellmer	WEC Energy Group, Inc.	5	RF
					David Boeshaar	WEC Energy Group, Inc.	6	RF
Elizabeth Davis	Elizabeth Davis		RF,SERC	ISO/RTO Standards Review Committee	Mike Del Viscio	PJM	2	RF
					Bobbi Welch	Midcontinent ISO, Inc.	2	RF
					Helen Lainis	IESO	2	NPCC
					Kathleen Goodman	ISO-NE	2	NPCC
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Charles Yeung	Southwest Power Pool, Inc. (RTO)	2	MRO
					Kennedy Meier	ERCOT	2	Texas RE
ACES Power Marketing	Jodirah Green	1,3,4,5,6	MRO,RF,SERC,Texas RE,WECC	ACES Collaborators	Bob Soloman	Hoosier Energy Electric Cooperative	1	RF
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
					Ryan Strom	Buckeye Power, Inc.	5	RF

					Dave Hartman	Arizona Electric Power Cooperative	1	WECC
					Scott Brame	NC Electric Membership Corporation	3,4,5	SERC
MRO	Jou Yang	1,2,3,4,5,6	MRO	MRO NSRF	Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Chris Bills	City of Independence, Power and Light Department	5	MRO
					Fred Meyer	Algonquin Power Co.	3	MRO
					Christopher Bills	City of Independence Power & Light	3,5	MRO
					Larry Heckert	Alliant Energy Corporation Services, Inc.	4	MRO
					Marc Gomez	Southwestern Power Administration	1	MRO
					Matthew Harward	Southwest Power Pool, Inc. (RTO)	2	MRO
					Bryan Sherrow	Board of Public Utilities	1	MRO
					Terry Harbour	Berkshire Hathaway Energy - MidAmerican Energy Co.	1	MRO
					Terry Harbour	MidAmerican Energy Company	1,3	MRO
					Jamison Cawley	Nebraska Public Power District	1,3,5	MRO
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO

					Shonda McCain	Omaha Public Power District	6	MRO
					George E Brown	Pattern Operators LP	5	MRO
					George Brown	Acciona Energy USA	5	MRO
					Jaimin Patel	Saskatchewan Power Cooperation	1	MRO
					Kimberly Bentley	Western Area Power Administration	1,6	MRO
					Jay Sethi	Manitoba Hydro	1,3,5,6	MRO
					Michael Ayotte	ITC Holdings	1	MRO
Entergy	Julie Hall	6		Entergy	Oliver Burke	Entergy - Entergy Services, Inc.	1	SERC
					Jamie Prater	Entergy	5	SERC
FirstEnergy - FirstEnergy Corporation	Mark Garza	4		FE Voter	Julie Severino	FirstEnergy - FirstEnergy Corporation	1	RF
					Aaron Ghodooshim	FirstEnergy - FirstEnergy Corporation	3	RF
					Robert Loy	FirstEnergy - FirstEnergy Solutions	5	RF
					Mark Garza	FirstEnergy-FirstEnergy	1,3,4,5,6	RF
					Stacey Sheehan	FirstEnergy - FirstEnergy Corporation	6	RF
Southern Company - Southern Company Services, Inc.	Pamela Frazier	1,3,5,6	MRO,RF,SERC,Texas RE,WECC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC
					Joel Dembowski	Southern Company - Alabama Power Company	3	SERC
					Jim Howell, Jr.	Southern Company -	5	SERC

						Southern Company Generation		
					Ron Carlsen	Southern Company - Southern Company Generation	6	SERC
Northeast Power Coordinating Council	Ruida Shu	1,2,3,4,5,6,7,8,9,10	NPCC	NPCC RSC	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Sheraz Majid	Hydro One Networks, Inc.	1	NPCC
					Deidre Altobell	Con Edison	1	NPCC
					Jeffrey Streifling	NB Power Corporation	1	NPCC
					Michele Tondalo	United Illuminating Co.	1	NPCC
					Chantal Mazza	Hydro Quebec	1	NPCC
					Stephanie Ullah-Mazzuca	Orange and Rockland	1	NPCC
					Quintin Lee	Eversource Energy	1	NPCC
					Michael Ridolfino	Central Hudson Gas & Electric Corp.	1	NPCC
					Dan Kopin	Vermont Electric Power Company	1	NPCC
					James Grant	NYISO	2	NPCC
					John Pearson	ISO New England, Inc.	2	NPCC
					Harishkumar Subramani Vijay Kumar	Independent Electricity System Operator	2	NPCC
					Nicolas Turcotte	Hydro-Quebec TransEnergie	1	NPCC
Randy MacDonald	New Brunswick Power Corporation	2	NPCC					

					Dermot Smyth	Con Ed - Consolidated Edison Co. of New York	1	NPCC
					David Burke	Orange and Rockland	3	NPCC
					Peter Yost	Con Ed - Consolidated Edison Co. of New York	3	NPCC
					Salvatore Spagnolo	New York Power Authority	1	NPCC
					Sean Bodkin	Dominion - Dominion Resources, Inc.	6	NPCC
					David Kwan	Ontario Power Generation	4	NPCC
					Silvia Mitchell	NextEra Energy - Florida Power and Light Co.	1	NPCC
					Glen Smith	Entergy Services	4	NPCC
					Sean Cavote	PSEG	4	NPCC
					Jason Chandler	Con Edison	5	NPCC
					Tracy MacNicoll	Utility Services	5	NPCC
					Shivaz Chopra	New York Power Authority	6	NPCC
					Vijay Puran	New York State Department of Public Service	6	NPCC
					ALAN ADAMSON	New York State Reliability Council	10	NPCC
					David Kiguel	Independent	7	NPCC
					Joel Charlebois	AESI	7	NPCC
Western Electricity	Steven Rueckert	10		WECC	Steve Rueckert	WECC	10	WECC
					Phil O'Donnell	WECC	10	WECC

Coordinating Council								
Tim Kelley	Tim Kelley		WECC	SMUD	Ryder Couch	Sacramento Municipal Utility District	5	WECC
					Foung Mua	Sacramento Municipal Utility District	4	WECC
					Wei Shao	Sacramento Municipal Utility District	1	WECC
					Nicole Looney	Sacramento Municipal Utility District	3	WECC
					Charles Norton	Sacramento Municipal Utility District	6	WECC
Santee Cooper	Vicky Budreau	3		Santee Cooper	Diana Scott	Santee Cooper	1,3,5,6	SERC
					Heugnette Bostic	Santee Cooper	1,3,5,6	SERC
					Cindy Corson	Santee Cooper	1,3,5,6	SERC
					Clarke McKenzie	Santee Cooper	1,3,5,6	SERC
					Adam Taylor	Santee Cooper	1,3,5,6	SERC
					Jason Smith	Santee Cooper	1,3,5,6	SERC
					Lachelle Brooks	Santee Cooper	1,3,5,6	SERC

1. Participating Balancing Authorities achieve reductions in their generation control and Reporting ACE by utilizing a frequency neutral form of ACE exchange, called ACE Diversity Interchange (ADI). Current implementations of ADI use offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. Guidance for implementing ADI processes is documented in a NERC technical reference document; however, concerns have been raised that not all participants may choose to include ADI in their Reporting ACE, which would result in the sum of Reporting ACE not being equal to zero for that interconnection. Since ADI is not currently a defined term, the standard drafting team (SDT) would like to poll industry. Please select one of the three options.

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer Yes

Document Name

Comment

MRO NSRF supports adding the definition of ADI to the NERC Glossary of Terms to ensure equal inclusion of ADI in participants' Reporting ACE. MRO NSRF recognizes the reliability impact caused by not having all participants in an ADI program uniformly include the ADI adjustment in their Reporting ACE, such as diminishing the CPS1 metric. MRO NSRF proposes the following definition for ADI:

ACE Diversity Interchange (ADI): A frequency neutral form of exchange that participating Balancing Authorities utilize to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. To ensure uniformity in reporting, all participating Balancing Authorities in a specified ADI program must either include or exclude the impact of ADI in their Reporting ACE collectively.

MRO NSRF also supports the intent of check box #2; however, the language "as is" is problematic. MRO NSRF would be open to supporting check box #2 if it was clarified such that ADI must be included in the Reporting ACE of participating BAs only. In addition, MRO NSRF's support of adding a definition of ADI to the NERC Glossary is contingent upon the SDT clarifying reporting applicability, i.e. only entities participating in an ADI program must report ADI; for non-participating Balancing Authorities, ADI is null so there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC or EMS merely to report a null value.

Likes 1 Lincoln Electric System, 1, Johnson Josh

Dislikes 0

Response

Meaghan Connell - Public Utility District No. 1 of Chelan County - 5

Answer

Document Name

Comment

CHPD does not participate in ADI but believes entities in an ADI group should all be consistent with how they include ADI in Reporting ACE.

Likes 0

Dislikes 0

Response

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer

Document Name

Comment

ERCOT has no position on this question.

Likes 0

Dislikes 0

Response

Holly Mitchell - NorthWestern Energy - 1,2,3,4,5,6,7,8,9,10 - WECC

Answer

Leave ADI undefined

Document Name

Comment

Likes 0

Dislikes 0

Response

Alain Mukama - Hydro One Networks, Inc. - 1

Answer

Leave ADI undefined

Document Name

Comment

No impact to Hydro One.

Likes 0

Dislikes 0

Response

Anna Lavik - Puget Sound Energy, Inc. - 1

Answer	Leave ADI undefined
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6, Group Name Entergy	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes 0	

Dislikes 0

Response

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer Leave ADI undefined

Document Name

Comment

Likes 0

Dislikes 0

Response

Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2

Answer Leave ADI undefined

Document Name

Comment

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez

Answer Leave ADI undefined

Document Name

Comment

Define ACE Sharing Group and require the relevant sharing component to be included in Reporting ACE

Likes 0

Dislikes 0

Response

Nicolas Turcotte - Hydro-Qu?bec TransEnergie - 1

Answer	Leave ADI undefined
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Carl Pineault - Hydro-Qu?bec Production - 5	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Leave ADI undefined
Document Name	
Comment	
Treatment of ADI is different for BAL-001 and BAL-002 compliance per the NERC Technical Reference.	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	Leave ADI undefined
Document Name	
Comment	

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC

Answer

Leave ADI undefined

Document Name

Comment

Likes 0

Dislikes 0

Response

Daniela Atanasovski - APS - Arizona Public Service Co. - 1

Answer

Leave ADI undefined

Document Name

Comment

APS is unaware of any reliability need or justification to require this term to be defined. For this reason, we support ADI remaining undefined.

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer

Leave ADI undefined

Document Name

Comment

: EEI is unaware of any reliability need or justification to require this term to be defined. For this reason, we support ADI remaining undefined.

Likes 0

Dislikes 0

Response

Constantin Chitescu - Ontario Power Generation Inc. - 5

Answer Leave ADI undefined

Document Name

Comment

Likes 0

Dislikes 0

Response

David Jendras Sr - Ameren - Ameren Services - 3

Answer Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name

Comment

Ameren agrees with and supports MISO comments.

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Nazra Gladu - Manitoba Hydro - 1

Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Manitoba Hydro supports the addition of ACE Diversity Interchange (ADI) to the NERC Glossary of terms. However, there is concern over the further impact to Reporting ACE and BAL standards that are not identified in Project 2022-01. BA's that do not make use of the ADI should not be required to report on ADI as part of the BAL standards. As such, ADI is only required to be part of a BA's AGC program and reporting if this feature is utilized.	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
WEC Energy supports MISOs comments.	
Likes 0	
Dislikes 0	
Response	

Claudine Bates - Black Hills Corporation - 6

Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
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Document Name	
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Comment	
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Likes 0	
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Dislikes 0	
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Response	
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Micah Runner - Black Hills Corporation - 1

Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
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Document Name	
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Comment	
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Likes 0	
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Dislikes 0	
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Response	
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Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
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Document Name	
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Comment	
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Likes 0	
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Dislikes 0	
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Response	
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Sheila Suurmeier - Black Hills Corporation - 5

Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
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Document Name	
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Comment	
Likes 0	
Dislikes 0	
Response	
Diana Torres - Imperial Irrigation District - 6	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
A definition of ADI needs to be added to the NERC Glossary of Terms and it needs to be defined and made clear where the ADI term should be added into Reporting ACE for ADI participants. For the Balancing Authorities who are not participating in ADI, no ADI term needs to be added into Reporting ACE.	
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	

Comment

A definition of ADI needs to be added to the NERC Glossary of Terms and it needs to be defined and made clear where the ADI term should be added into Reporting ACE for ADI participants. For the Balancing Authorities who are not participating in ADI, no ADI term needs to be added into Reporting ACE.

Likes 0

Dislikes 0

Response

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer

Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name**Comment**

Likes 0

Dislikes 0

Response

Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF

Answer

Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name**Comment**

SIGE supports comments submitted by MISO.

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC

Answer

Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name

Comment	
Likes 0	
Dislikes 0	
Response	
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Kinte Whitehead - Exelon - 3	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	

SPP supports adding the definition of ADI to the NERC Glossary of Terms to ensure equal inclusion of ADI in participants' Reporting ACE. SPP recognizes the reliability impact caused by not having all participants in an ADI program uniformly include the ADI adjustment in their Reporting ACE, such as diminishing the CPS1 metric. SPP proposes the following definition for ADI:

ACE Diversity Interchange (ADI): A frequency neutral form of exchange that participating Balancing Authorities utilize to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. To ensure uniformity in reporting, all participating Balancing Authorities in a specified ADI program must either include or exclude the impact of ADI in their Reporting ACE collectively

Likes 0

Dislikes 0

Response

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name

Comment

Southern Company believes that any values affecting the ACE calculation should be included in the NERC Glossary of terms. This would require a definition to maintain consistency. However, we also believe that ADI should only be included in a BA's ACE equation if the BA is part of an ADI process and similar comments to questions #3 and #4 would apply as to how this should be treated.

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name

Comment

ITC is in support of the NSRF response

Likes 0

Dislikes 0

Response

Sandra Ellis - Pacific Gas and Electric Company - 3

Answer Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE

Document Name

Comment

Since the term is documented in NERC technical reference documents, ADI should be defined in the NERC Glossary of terms.

Likes 0

Dislikes 0

Response

David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman

Answer Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE

Document Name

Comment

AEPCO signs on to the comments by ACES Power Marketing.

It is our opinion that adding ADI to the NERC Glossary of terms will provide all participants with an easy reference source for this term; however, we believe that the individual entities should have the flexibility to choose whether they should implement the ADI methodology.

Likes 0

Dislikes 0

Response

Karrie Schuldt - Dairyland Power Cooperative - 1

Answer Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE

Document Name

Comment

MRO/NSRF

Likes 0

Dislikes 0

Response

Bobbi Welch - Midcontinent ISO, Inc. - 2

Answer

Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE

Document Name

Comment

MISO supports adding the definition of ADI to the NERC Glossary of Terms to ensure equal inclusion of ADI in participants' Reporting ACE if and only if the addition makes clear that any requirement to include ADI in Reporting ACE applies only to Balancing Authorities participating in an ADI program. Since ADI is null for Balancing Authorities not participating in an ADI program, there should be no obligation for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC, or EMS merely to report a null value.

MISO recognizes the reliability impact, such as diminishing the CPS1 metric, that results when only some participants in an ADI program include the ADI adjustment in their Reporting ACE, and would therefore support language requiring all Balancing Authorities participating in a specified ADI program to uniformly include or exclude ADI from their Reporting ACE. MISO proposes the following definition for ADI:

ACE Diversity Interchange (ADI): A frequency neutral form of exchange that participating Balancing Authorities utilize to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. To ensure uniformity in reporting, all participating Balancing Authorities in a specified ADI program must either include or exclude the impact of ADI in their Reporting ACE collectively.

Likes 0

Dislikes 0

Response

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer

Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE

Document Name

Comment

It is our opinion that adding ADI to the NERC Glossary of terms will provide all participants with an easy reference source for this term; however, we believe that the individual entities should have the flexibility to choose whether they should implement the ADI methodology.

Likes 0

Dislikes 0

Response

2. The SDT acknowledges that the NERC Glossary Terms: Automatic Generation Control, Interchange Schedule, and Pre-Reporting Contingency Event ACE Value are connected to the ACE definition and associated definitions, but did not find modifications needed. Does the entity agree that no changes are needed to the three NERC Glossary of Terms stated above? If not, please provide a proposal and justification as to why changes are necessary.

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer No

Document Name

Comment

ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.

Likes 0

Dislikes 0

Response

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer No

Document Name

Comment

The SRC proposes the following non-substantive modifications to the definition of Automatic Generation Control: A process designed and used to adjust a Balancing Authority Areas' **Area's** Demand and resources to help maintain the Reporting ACE **in that** of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.

Please note: the request is to replace Areas' with Area's; and include the words 'in that'; and remove the words 'of a'.

Likes 0

Dislikes 0

Response

Bobbi Welch - Midcontinent ISO, Inc. - 2

Answer No

Document Name

Comment

MISO supports comments filed by the ISO/RTO Council (IRC) Standards Review Committee (SRC) and proposes the following non-substantive modifications to the definition of Automatic Generation Control.

Automatic Generation Control (AGC): A process designed and used to adjust a Balancing Authority Areas' Area's Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer No

Document Name

Comment

See Response #7 below.

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer Yes

Document Name

Comment

EI agrees that the NERC Glossary Terms (i.e., Automatic Generation Control, Interchange Schedule, and Pre-Reporting Contingency Event ACE Value) do not need to be changed.

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer Yes

Document Name

Comment

ITC is in support of the NSRF response

Likes 0

Dislikes 0

Response**Karrie Schuldt - Dairyland Power Cooperative - 1****Answer**

Yes

Document Name**Comment**

MRO/NSRF

Likes 0

Dislikes 0

Response**Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC****Answer**

Yes

Document Name**Comment**

PNM agrees.

Likes 0

Dislikes 0

Response**Sheila Suurmeier - Black Hills Corporation - 5****Answer**

Yes

Document Name**Comment**

No impact to BHP.

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer

Yes

Document Name

Comment

No impact to BHP.

Likes 0

Dislikes 0

Response

Micah Runner - Black Hills Corporation - 1

Answer

Yes

Document Name

Comment

No impact to BHP.

Likes 0

Dislikes 0

Response

Claudine Bates - Black Hills Corporation - 6

Answer

Yes

Document Name

Comment

No impact to BHP.

Likes 0

Dislikes 0

Response

Sandra Ellis - Pacific Gas and Electric Company - 3

Answer Yes

Document Name

Comment

Concur with SDT since the fundament definitions for AGC, Interchange Schedule, and Pre-Reporting Contingency Event Ace did not change.

Likes 0

Dislikes 0

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer Yes

Document Name

Comment

FirstEnergy offers no comments toward this question.

Likes 0

Dislikes 0

Response

Alain Mukama - Hydro One Networks, Inc. - 1

Answer Yes

Document Name

Comment

No impact to Hydro One.

Likes 0

Dislikes 0

Response	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response

Kinte Whitehead - Exelon - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Lindsey Mannion - ReliabilityFirst - 10

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response**Carl Pineault - Hydro-Qu?bec Production - 5****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Nicolas Turcotte - Hydro-Qu?bec TransEnergie - 1****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foug Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Donna Wood - Tri-State G and T Association, Inc. - 1

Answer Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Diana Torres - Imperial Irrigation District - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response

Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Meaghan Connell - Public Utility District No. 1 of Chelan County - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response**Nazra Gladu - Manitoba Hydro - 1****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**Julie Hall - Entergy - 6, Group Name Entergy****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response**David Jendras Sr - Ameren - Ameren Services - 3****Answer**

Yes

Document Name**Comment**

Likes 0

Dislikes 0

Response

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Anna Lavik - Puget Sound Energy, Inc. - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE

Document Name

Comment

Likes 1

Lincoln Electric System, 1, Johnson Josh

Dislikes 0

Response

3. Does the entity propose any other specific changes to the NERC Glossary of Terms that were not changed and, if so, what specific term(s) are you in opposition to and why?

Alain Mukama - Hydro One Networks, Inc. - 1

Answer No

Document Name

Comment

No impact to Hydro One.

Likes 0

Dislikes 0

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer No

Document Name

Comment

FirstEnergy offers no comments toward this question.

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC

Answer No

Document Name

Comment

Nothing other than the definition of PII and its components are readable.

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC

Answer No

Document Name

Comment

No other changes proposed.

Likes 0

Dislikes 0

Response

Karrie Schuldt - Dairyland Power Cooperative - 1

Answer No

Document Name

Comment

MRO/NSRF

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer No

Document Name

Comment

ITC is in support of the NSRF response

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer No

Document Name	
Comment	
EEl does not offer any changes to the NERC Glossary of Terms.	
Likes 0	
Dislikes 0	
Response	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	No
Document Name	
Comment	
Likes 0	

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Nazra Gladu - Manitoba Hydro - 1

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Meaghan Connell - Public Utility District No. 1 of Chelan County - 5

Answer

No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Sandra Ellis - Pacific Gas and Electric Company - 3	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation - 6	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response

Micah Runner - Black Hills Corporation - 1

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Sheila Suurmeier - Black Hills Corporation - 5

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer No

Document Name

Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Carl Pineault - Hydro-Quebec Production - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response

Kinte Whitehead - Exelon - 3

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response**Daniela Atanasovski - APS - Arizona Public Service Co. - 1****Answer**

No

Document Name**Comment**

Likes 0

Dislikes 0

Response**Constantin Chitescu - Ontario Power Generation Inc. - 5****Answer**

No

Document Name**Comment**

Likes 0

Dislikes 0

Response**Bobbi Welch - Midcontinent ISO, Inc. - 2****Answer**

No

Document Name**Comment**

Likes 0

Dislikes 0

Response

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer Yes

Document Name

Comment

See Response #7 below.

Likes 0

Dislikes 0

Response

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer Yes

Document Name

Comment

BC Hydro appreciates the opportunity to review and offers comments on the revised definitions for Area Control Error (ACE), Automatic Time Error Correction (ATEC), Control Performance Standard (CPS), Frequency Bias Setting (FBS) and Interchange Meter Error (IME) as follows.

- ACE – Recommend “Frequency Bias” be changed to “entity’s Frequency Bias”, to remove any ambiguities (e.g. might be interpreted as interconnection bias, etc.)
- ATEC – The “that modifies the control point” wording should be removed, as the “control point” is undefined; the intent of the definition is sufficiently clear without this phrase. Additionally, for “IATEC shall be zero when operating in any other AGC mode.”: it is unclear what other “AGC modes” there are, as the applicable AGC mode has not been specified. Recommend changing to “IATEC shall be zero when operating in any AGC mode other than TLBC (Tie Line Bias Control)”
- CPS – It is not a methodology nor a control; rather, BC Hydro suggests that CPS is a method for relating Reporting ACE to Frequency Error to provide objective indication whether sufficient secondary AGC control has been applied to maintain energy balance and Scheduled Frequency.
- FBS – Please confirm if this is to the same as the “Frequency Bias” term mentioned in ATEC. If it is, recommend matching the terms for consistency (e.g. change this to “Frequency Bias”).
- IME – Recommend replacing “any other components” with “... to compensate for data or equipment errors affecting the Actual Net Interchange component”

Likes 0

Dislikes 0

Response

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer Yes

Document Name

Comment

See response to question #4.

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer

Yes

Document Name

Comment

Likes 1

Lincoln Electric System, 1, Johnson Josh

Dislikes 0

Response

4. Does the entity believe that any proposed changes to the NERC Glossary of Terms modify any requirements in existing NERC reliability standards?

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer No

Document Name [ACE-4.PNG](#)

Comment

MRO NSRF is concerned that the proposed changes to Reporting ACE *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, MRO NSRF requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(A TEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection. Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Likes 1 Lincoln Electric System, 1, Johnson Josh

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer No

Document Name

Comment

EEI is unaware of any problems with the proposed changes to the NERC Glossary of Terms under this project (as proposed in Draft 1) that might negatively impact enforceable requirements in any of the NERC Reliability Standards that are currently mandatory and subject to enforcement.

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC

Answer No

Document Name

Comment

Following review, no changes to standards was identified.

Likes 0

Dislikes 0

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer No

Document Name

Comment

Changes proposed have no impact to FirstEnergy.

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer No

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Alain Mukama - Hydro One Networks, Inc. - 1

Answer No

Document Name	
Comment	
No impact to Hydro One.	
Likes 0	
Dislikes 0	
Response	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No
Document Name	
Comment	
Likes 0	

Dislikes 0

Response

David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Kinte Whitehead - Exelon - 3

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese

Answer No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Carl Pineault - Hydro-Quebec Production - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response

Nicolas Turcotte - Hydro-Qu?bec TransEnergie - 1

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez

Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Diana Torres - Imperial Irrigation District - 6	
Answer	No
Document Name	
Comment	
Likes 0	

Dislikes 0

Response

Sheila Suurmeier - Black Hills Corporation - 5

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Micah Runner - Black Hills Corporation - 1

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Claudine Bates - Black Hills Corporation - 6

Answer

No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Julie Hall - Entergy - 6, Group Name Entergy	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	Yes
Document Name	
Comment	
ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.	
Likes	0
Dislikes	0
Response	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	Yes

Document Name**Comment**

The SRC is concerned that the proposed changes *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, the SRC requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(ATEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC, or EMS merely to incorporate or report a null value.

Likes 0

Dislikes 0

Response

Bobbi Welch - Midcontinent ISO, Inc. - 2

Answer

Yes

Document Name**Comment**

MISO supports comments filed by the SRC and is concerned that the proposed changes to Reporting ACE *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, MISO requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(ATEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer

Yes

Document Name

Comment

ITC is in support of the NSRF response

Likes 0

Dislikes 0

Response

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer

Yes

Document Name

Comment

While the modified definition of Area Control Error (ACE) includes the language “if operating in the Inadvertent Interchange Management mode”, the “Reporting Area Control Area Error – (Reporting ACE)” definition and subsequent equation infers the component should be included in the Balancing Authority’s Reporting ACE. This addition would modify the requirements of the existing standards. One possible solution would be to clarify in the Reporting ACE definitions: IIM = Inadvertent Interchange Management *if utilized*.

Likes 0

Dislikes 0

Response

Karrie Schuldt - Dairyland Power Cooperative - 1

Answer

Yes

Document Name

Comment

MRO/NSRF

Likes 0

Dislikes 0

Response

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer Yes

Document Name

Comment

SPP supports the comments of the MRO NSRF

Likes 0

Dislikes 0

Response

Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF

Answer Yes

Document Name

Comment

SIGE supports comments submitted by MISO.

Likes 0

Dislikes 0

Response

Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group

Answer Yes

Document Name

Comment

WEC Energy Group supports MISO's comments.

Likes 0

Dislikes 0

Response

Sandra Ellis - Pacific Gas and Electric Company - 3

Answer Yes

Document Name

Comment

BAL Standards

Likes 0

Dislikes 0

Response

Nazra Gladu - Manitoba Hydro - 1

Answer Yes

Document Name

Comment

Manitoba Hydro supports the addition of the new Inadvertent Interchange Management (IIM) component within Reporting ACE. However, the IIM term within the RACE calculation will impact BAL standards, incur significant enhancements to EMS AGC applications and require an external regional system to deploy proper use within each interconnect. This change, although appearing small in nature, is quite significant for those EMS vendors that do not allow such a feature. As such, industry will require additional time, design, and vetting prior to moving ahead with IIM. Manitoba Hydro recommends that wording in the definition of RACE and/or BAL standards address the following:

- 1) IIM should be considered as null for those interconnects/BA's that do not deploy this term within RACE for their system.
- 2) IIM should not be required as part of a BA's AGC system calculation or accounting unless deployed within the interconnect/BA.

Likes 0

Dislikes 0

Response

David Jendras Sr - Ameren - Ameren Services - 3

Answer Yes

Document Name

Comment

Ameren agrees with and supports MISO comments.

Likes 0

Dislikes 0

Response

Donna Wood - Tri-State G and T Association, Inc. - 1

Answer

Document Name

Comment

NA

Likes 0

Dislikes 0

Response

5. Does the entity oppose any specific proposed changes to the NERC Glossary of Terms and, if so, what specific term(s) are you in opposition to and why?

Alain Mukama - Hydro One Networks, Inc. - 1

Answer No

Document Name

Comment

No proposed changes to NERC Glossary of Terms.

Likes 0

Dislikes 0

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer No

Document Name

Comment

FirstEnergy offers no comments toward this question.

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer No

Document Name

Comment

No proposed changes to NERC Glossary of Terms.

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer No

Document Name

Comment

EEl does not oppose any of the proposed changes to the NERC Glossary Terms modified and as proposed in this Draft 1 posting.

Likes 0

Dislikes 0

Response

Anna Lavik - Puget Sound Energy, Inc. - 1

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Meaghan Connell - Public Utility District No. 1 of Chelan County - 5

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Sandra Ellis - Pacific Gas and Electric Company - 3

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Claudine Bates - Black Hills Corporation - 6

Answer	No
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Document Name	
----------------------	--

Comment

Likes 0

Dislikes 0

Response

Micah Runner - Black Hills Corporation - 1

Answer	No
---------------	----

Document Name	
----------------------	--

Comment

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer	No
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Document Name	
----------------------	--

Comment

Likes 0

Dislikes 0

Response

Sheila Suurmeier - Black Hills Corporation - 5

Answer	No
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Document Name	
----------------------	--

Comment

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Nicolas Turcotte - Hydro-Qu?bec TransEnergie - 1

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Carl Pineault - Hydro-Qu?bec Production - 5

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Lindsey Mannion - ReliabilityFirst - 10

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response

Kinte Whitehead - Exelon - 3**Answer** No**Document Name****Comment**

Likes 0

Dislikes 0

Response**David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman****Answer** No**Document Name****Comment**

Likes 0

Dislikes 0

Response**Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC****Answer** No**Document Name****Comment**

Likes 0

Dislikes 0

Response**Daniela Atanasovski - APS - Arizona Public Service Co. - 1****Answer** No**Document Name****Comment**

Likes 0

Dislikes 0

Response

Constantin Chitescu - Ontario Power Generation Inc. - 5

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

David Jendras Sr - Ameren - Ameren Services - 3

Answer Yes

Document Name

Comment

Ameren agrees with and supports MISO comments.

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer Yes

Document Name

Comment

See Response #7 below.

Likes 0

Dislikes 0

Response

Nazra Gladu - Manitoba Hydro - 1

Answer Yes

Document Name

Comment

As discussed in question 4, the new Inadvertent Interchange Management (IIM) component within Reporting ACE may incur impact to BAL standards, RACE and EMS AGC applications. While

Manitoba Hydro supports the inclusion of IIM, we request that NERC provide wording to address IIM as listed in question 4:

- 1) IIM should be considered as null for those interconnects/BA's that do not deploy this term within RACE for their system.
- 2) IIM should not be required as part of a BA's AGC system calculation or accounting unless deployed within the interconnect/BA.

Likes 0

Dislikes 0

Response

Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group

Answer Yes

Document Name

Comment

WEC Energy Group supports MISOs comments.

Likes 0

Dislikes 0

Response

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer Yes

Document Name

Comment

BC Hydro appreciates the opportunity to review and offers comments on the revised definitions for Area Control Error (ACE), Automatic Time Error Correction (ATEC), Control Performance Standard (CPS), Frequency Bias Setting (FBS) and Interchange Meter Error (IME) as follows.

- ACE – Recommend “Frequency Bias” be changed to “entity’s Frequency Bias”, to remove any ambiguities (e.g. might be interpreted as interconnection bias, etc.)
- ATEC – The “that modifies the control point” wording should be removed, as the “control point” is undefined; the intent of the definition is sufficiently clear without this phrase. Additionally, for “IATEC shall be zero when operating in any other AGC mode.”: it is unclear what other “AGC modes” there are, as the applicable AGC mode has not been specified. Recommend changing to “IATEC shall be zero when operating in any AGC mode other than TLBC (Tie Line Bias Control)”
- CPS – It is not a methodology nor a control; rather, BC Hydro suggests that CPS is a method for relating Reporting ACE to Frequency Error to provide objective indication whether sufficient secondary AGC control has been applied to maintain energy balance and Scheduled Frequency.
- FBS – Please confirm if this is to the same as the “Frequency Bias” term mentioned in ATEC. If it is, recommend matching the terms for consistency (e.g. change this to “Frequency Bias”).
- IME – Recommend replacing “any other components” with “... to compensate for data or equipment errors affecting the Actual Net Interchange component”

Likes 0

Dislikes 0

Response

Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF

Answer Yes

Document Name

Comment

SIGE supports comments submitted by MISO.

Likes 0

Dislikes 0

Response

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer Yes

Document Name	
Comment	
<p>As mentioned in our response to Question 4, MRO NSRF is concerned that the proposed changes to Reporting ACE <i>may</i> result in new EMS requirements (in terms of the Reporting ACE calculation) and <i>may</i> result in new administrative requirements in the form of compliance reporting.</p> <p>To the extent this is not the intent of the SDT, MRO NSRF requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:</p> <p>Reporting ACE = (NIA &minus; NIS) &minus; 10B (FA &minus; FS) – IME + I(IM);</p> <ul style="list-style-type: none"> &bull; I(IM) = Inadvertent Interchange Management. &bull; In the Western Interconnection this term is I(ATEC) &bull; The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection. Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value. <p>Similarly, as noted in MRO NSRF’s response to Question 1, our support for adding a definition of ADI to the NERC Glossary is contingent upon the SDT clarifying reporting applicability; i.e. only entities participating in an ADI program must report ADI; for non-participating Balancing Authorities, ADI is null so there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.</p>	
Likes 1	Lincoln Electric System, 1, Johnson Josh
Dislikes 0	
Response	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	Yes
Document Name	
Comment	
SPP supports the comments of the MRO NSRF	
Likes 0	
Dislikes 0	
Response	
Karrie Schuldt - Dairyland Power Cooperative - 1	
Answer	Yes

Document Name	
Comment	
MRO/NSRF	
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes
Document Name	
Comment	
The terms "Actual Net Interchange (NIA)" and "Scheduled Net Interchange (NIS)" used in the proposed ACE definition don't match the revised terms where the terms and acronyms are separated by a hyphen.	
Likes 0	
Dislikes 0	
Response	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes
Document Name	
Comment	
ITC is in support of the NSRF response	
Likes 0	
Dislikes 0	
Response	
Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	Yes
Document Name	

Comment

MISO supports comments filed by the SRC and is concerned that the proposed changes to Reporting ACE *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, MISO requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(ATEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Similarly, as noted in MISO’s response to Question 1, our support for adding a definition of ADI to the NERC Glossary is contingent upon the SDT clarifying reporting applicability; i.e. only entities participating in an ADI program must report ADI; for non-participating Balancing Authorities, ADI is null so there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Likes 0

Dislikes 0

Response

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer

Yes

Document Name

Comment

As mentioned in our response to Question 4, the SRC is concerned that the proposed changes *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, the SRC requests the SDT clarify the intent of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(ATEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC, or EMS merely to incorporate or report a null value.

Likes 0

Dislikes 0

Response

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer

Yes

Document Name

Comment

ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer

Document Name

Comment

Texas RE generally agrees with the proposed revisions to the NERC Glossary of terms. Texas RE is concerned, however, that the definition of Reportable Balancing Contingency Event (RBCE) continues to use the term Regional Reliability Organization (RRO). This term has not been used in some time and Texas RE recommends removing it as it has already been removed from older Reliability Standards that contained the term.

Texas RE also noticed the following in certain definitions:

- Area Control Error (ACE) – Texas RE recommends keeping the term Balancing Authority, rather than “entity” as it will always be the Balancing Authority. If the term Reporting ACE is to be used for compliance, then that is the term that should be used in the Requirements. Texas RE notes that BAL-005-1 does use the term Reporting ACE, rather than ACE.
- Balancing Authority Area - EOP-011-2 is effective as of April 1, 2023, and EOP-011-1 is being retired. Texas RE recommends updating the version.

- Reporting ACE - The term “equation” was struck from one sentence but not from another when discussing the Reporting ACE (“will provide a valid alternative to this Reporting ACE equation”. Was this the SDT’s intent?
- The term Adjacent Balancing Authority Area is not defined, though Adjacent Balancing Authority and Balancing Authority Area are defined terms. This phrase appears in the definitions of Actual Net Interchange, where it is capitalized, and in the definition of Scheduled Net Interchange, where area is not capitalized. Texas RE recommends being consistent with the use of the term.

Likes 0

Dislikes 0

Response

Donna Wood - Tri-State G and T Association, Inc. - 1

Answer

Document Name

Comment

NA

Likes 0

Dislikes 0

Response

6. The SDT is proposing a 12-month implementation plan. Would this proposed timeframe give enough time to implement the proposed changes? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer No

Document Name

Comment

If the EI were to implement IIM, at least 24 months would be needed. 12 months to discuss the details and 12 months to implement.

Likes 0

Dislikes 0

Response

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer No

Document Name

Comment

Eighteen months would be a better time frame to allow all operating procedures to be modified by the BA's to reflect the definition changes.

Likes 0

Dislikes 0

Response

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foung Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer No

Document Name

Comment

18 months would be a better time frame to allow all operating procedures to be modified by the BA's to reflect the definition changes.

Likes 0

Dislikes 0

Response

Nazra Gladu - Manitoba Hydro - 1

Answer

No

Document Name

Comment

As stated in our responses to questions 1, 4 and 5, Manitoba Hydro does not support the proposed timeline if EMS Vendors are required to update their AGC applications to meet the new IIM and ADI terms. As such, the 12 month timeline will need to be extended to 36 months to allow a reasonable amount of time for design, development and testing of the new functionality within AGC.

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy

Answer

No

Document Name

Comment

Prior to confirming the implementation timeframe, Entergy recommends that utilities contact their control system software vendors to ensure that any potential coding modifications required to support these changes can be completed within the proposed 12-month implementation timeframe.

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer

No

Document Name

Comment

Likes 0

Dislikes 0

Response	
Sandra Ellis - Pacific Gas and Electric Company - 3	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0

Response	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	Yes
Document Name	
Comment	
ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.	
Likes	0
Dislikes	0

Response	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	Yes
Document Name	
Comment	
The SRC's "Yes" response is contingent upon the SDT clarifying that the Reporting ACE definition will indicate the I(IM) value is null for non-participating Balancing Authorities and that there is no requirement for non-participating Balancing Authorities to make changes to their AGC merely to report a null value. If this is not the case, a longer implementation plan would be necessary.	
Likes	0
Dislikes	0

Response	
-----------------	--

Bobbi Welch - Midcontinent ISO, Inc. - 2

Answer Yes

Document Name

Comment

MISO supports comments filed by the SRC and its "Yes" response is contingent upon the SDT clarifying that the Reporting ACE definition will indicate the I(IM) value is null for non-participating Balancing Authorities and that there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC or EMS merely to report a null value. If this is not the case, a longer implementation plan would be necessary.

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer Yes

Document Name

Comment

EI does not oppose the 12 month implementation plan.

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer Yes

Document Name

Comment

ITC is in support of the NSRF response

Likes 0

Dislikes 0

Response

Karrie Schuldt - Dairyland Power Cooperative - 1

Answer Yes

Document Name

Comment

MRO/NSRF

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC

Answer Yes

Document Name

Comment

PNM agrees with the timeframe of 12 months for implementation.

Likes 0

Dislikes 0

Response

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer Yes

Document Name

Comment

MRO NSRF's "Yes" response is contingent upon the SDT clarifying that the Reporting ACE definition will indicate the I(IM) value is null for non-participating Balancing Authorities and that there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC or EMS merely to report a null value. If this is not the case, a longer implementation plan would be necessary.

Likes 1 Lincoln Electric System, 1, Johnson Josh

Dislikes 0

Response

Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF

Answer Yes

Document Name

Comment

SIGE supports comments submitted by MISO.

Likes 0

Dislikes 0

Response

Sheila Suurmeier - Black Hills Corporation - 5

Answer Yes

Document Name

Comment

No impact to BHP.

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer Yes

Document Name

Comment

No impact to BHP.

Likes 0

Dislikes 0

Response

Micah Runner - Black Hills Corporation - 1

Answer Yes

Document Name	
Comment	
No impact to BHP.	
Likes 0	
Dislikes 0	
Response	
Claudine Bates - Black Hills Corporation - 6	
Answer	Yes
Document Name	
Comment	
No impact to BHP.	
Likes 0	
Dislikes 0	
Response	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	Yes
Document Name	
Comment	
WEC Energy Group supports MISOs comments.	
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	Yes
Document Name	

Comment

FirstEnergy offers no comments toward this question.

Likes 0

Dislikes 0

Response**Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF**

Answer

Yes

Document Name

Comment

None.

Likes 0

Dislikes 0

Response**David Jendras Sr - Ameren - Ameren Services - 3**

Answer

Yes

Document Name

Comment

Ameren agrees with and supports MISO comments.

Likes 0

Dislikes 0

Response**Alain Mukama - Hydro One Networks, Inc. - 1**

Answer

Yes

Document Name

Comment

No impact to Hydro One.

Likes 0

Dislikes 0

Response

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Constantin Chitescu - Ontario Power Generation Inc. - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Daniela Atanasovski - APS - Arizona Public Service Co. - 1

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Kinte Whitehead - Exelon - 3

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Lindsey Mannion - ReliabilityFirst - 10

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Carl Pineault - Hydro-Qu?bec Production - 5

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Nicolas Turcotte - Hydro-Qu?bec TransEnergie - 1

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Meaghan Connell - Public Utility District No. 1 of Chelan County - 5

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC

Answer

Yes

Document Name

Comment

Likes 0

Dislikes 0

Response

Anna Lavik - Puget Sound Energy, Inc. - 1**Answer** Yes**Document Name****Comment**

Likes 0

Dislikes 0

Response**Donna Wood - Tri-State G and T Association, Inc. - 1****Answer****Document Name****Comment**

NA

Likes 0

Dislikes 0

Response**Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC****Answer****Document Name****Comment**

WECC leaves the input on implementing the proposed changes to those entities that are required to implement the changes.

Likes 0

Dislikes 0

Response

7. Please provide any additional comments for the SDT to consider, if desired.

Alain Mukama - Hydro One Networks, Inc. - 1

Answer

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

David Jendras Sr - Ameren - Ameren Services - 3

Answer

Document Name

Comment

Ameren agrees with and supports MISO comments.

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer

Document Name

Comment

See general comment and definition updates below:

General Comment: Inclusion of acronyms is inconsistent. Some use a hyphen to separate, others do not.

The following changes to certain proposed definitions are recommended.

Area Control Error (ACE): The instantaneous difference between an entity's Actual Net Interchange (NIA) and Scheduled Net Interchange (NIS), incorporating the effects of Frequency Error, Frequency Bias Setting (FBS), of Interchange Meter Error (IME), and of Inadvertent Interchange Management (IIM). For compliance usage, refer to the term Reporting ACE.

Automatic Generation Control (AGC): A process designed and used to adjust a Balancing Authority Area's resource to help maintain the Reporting ACE within the Balancing Authority Area bounds required by applicable NERC Reliability Standards.

Balancing Authority Area (BAA): The collection of generation and loads within the metered boundary. The Balancing Authority Area maintains load-resource balance within this area.

Control Performance Standard (CPS): Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average. It is used as an indicator of sufficient secondary AGC or DSM to maintain energy balance and Scheduled Frequency.

Dynamic Interchange Schedule or Dynamic Schedule: A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities' Reporting ACE.

Frequency Bias Setting (FBS): A negative number, either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority Area's Reporting ACE to account for the Balancing Authority Area's Frequency Response to the Interconnection Frequency Error, and discourage additional secondary control response.

Overlap Regulation Service: A method of providing Regulation Service in which the Balancing Authority Area providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority Area's Actual Net Interchange (NIA), Scheduled Net Interchange (NIS), and Frequency Bias Setting (FBS).

Reporting Area Control Error (Reporting ACE): The scan-rate value of a Balancing Authority Area's (BAA) Area Control Error (ACE) measured in MW, which includes the difference between actual and scheduled interchange adjusted for Frequency Error, known meter error, and inadvertent management.

Time Error (TE): The difference between the Interconnection time measured at the Balancing Authority Area(s) and the time specified by the National Institute of Standards and Technology. Time Error difference is caused by the accumulation of Frequency Error over a given period.

Likes 0

Dislikes 0

Response

Julie Hall - Entergy - 6, Group Name Entergy

Answer

Document Name

Comment

The scope of this project appears to be largely administrative and, while worthwhile to pursue, may not be the most prudent allocation of resources given the more immediate reliability/risk-related efforts such as IBR performance standards. Entergy recommends deferring any further action on this project to a later date.

Likes 0

Dislikes 0

Response

Nazra Gladu - Manitoba Hydro - 1

Answer	
Document Name	
Comment	
Pages 22 and 23, Redline - "Contingency Event" should be capitalized within the "Currently Approved Definition" and "SDT Proposed New or Revised REDLINE TO Currently Approved" columns for the NERC Glossary Terms "Operating Reserve - Spinning" and "Operating Reserve - Supplemental".	
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	
Response	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	
Document Name	
Comment	
<p>In the redline for Operating Reserve - Spinning, it appears that the intent was to capitalize Contingency Event, but all that is shown is the deletion of the small c and small e.</p> <p>In the reline for Ramp Rate or Ramp it appears that the intent was to capitalize Interchange and Schedule. The small i and small s are stricken, but the large I and Large S are not shown as changes.</p> <p>In the Reportable Balancing Contingency Event definition, Most Severe Single Contingency (MSSC) is included. MSSC is already a defined term, so MSSC would be adequate (without spelling it out).</p>	
Likes 0	
Dislikes 0	

Response

Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group

Answer

Document Name

Comment

WEC Energy Group supports MISOs additional comments as written.

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer

Document Name

Comment

None

Likes 0

Dislikes 0

Response

Donna Wood - Tri-State G and T Association, Inc. - 1

Answer

Document Name

Comment

NERC System Operator Certification training and testing will need to incorporate these new definitions in a timely manner. ACE definitions are fundamental to NERC Certification training for new and existing System Operators.

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez

Answer

Document Name

Comment

The schedule Interchange is not a defined term in NERC glossary currently which is used in new definition of Reporting ACE. Even though the equation remains the same, the new terminology should be defined.

Likes 0

Dislikes 0

Response

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer

Document Name

Comment

With the retirement of Disturbance Control Standard (DCS), will the SDT make changes be made to forms that reference DCS? The SDT needs to provide more details about Inadvertent Interchange Management, especially how it effects the Eastern Interconnection.

Likes 0

Dislikes 0

Response

Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF

Answer

Document Name

Comment

SIGE supports comments submitted by MISO.

Likes 0

Dislikes 0

Response

Nicolas Turcotte - Hydro-Québec TransEnergie - 1

Answer

Document Name

Comment

Actual Net Interchange: Adjacent Balancing Authority Areas is not a defined term. It should read either Adjacent Balancing Authority areas or adjacent Balancing Authority Areas.

Control Performance Standard (CPS) : remove “Daniel, please help” from the Notes column.

Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2 and BAL-004-WECC-3.

Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2.

Likes 0

Dislikes 0

Response

Carl Pineault - Hydro-Québec Production - 5

Answer

Document Name

Comment

Actual Net Interchange: Adjacent Balancing Authority Areas is not a defined term. It should read either Adjacent Balancing Authority areas or adjacent Balancing Authority Areas.

Control Performance Standard (CPS) : remove “Daniel, please help” from the Notes column.

Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2 and BAL-004-WECC-3.

Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2.

Likes 0

Dislikes 0

Response

Answer

Document Name

Comment

The SAR for this project states that its goal is to: “improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.” MRO NSRF recognizes this as a laudable goal; however, it is not one that will result in improved reliability near-term nor address an immediate need as the Eastern Interconnection is not currently pursuing the implementation of an automated time error correction process. MRO NSRF recognizes that the first ballot for this project will be finalized coincident to the submission of these comments and that the ballot results may contemplate an efficient and timely close of this project.

However, and contingent on the ballot outcome, in light of the growing number of standards development projects and the NERC Board of Trustees’ recent solicitation for industry input regarding the **Prioritization of Activities and Effective Engagement** (questions provided below), MRO NSRF recommends that NERC and industry defer action on this project at this time and reallocate resources to standards development projects that have a greater potential to mitigate risks and provide industry with more immediate reliability benefits; e.g. IBR performance standards.

1. What efforts underway at NERC do you believe do not provide value or are driving a disproportionate use of resources relative to the risk being mitigated?

2. What steps can NERC and industry take to achieve a better balance of resources relative to the risks being mitigated?

Comments re: [Reporting ACE Definition Master List Red-line](#)

- To minimize confusion, MRO NSRF recommends the hyphens between the term and the acronym be removed in column, “NERC Glossary Term.” Reason being the hyphen prior to the acronym has the potential of being mistaken as a negative sign. For example, “Actual Net Interchange - (NIA)” should be revised to “Actual Net Interchange (NIA).”
- MRO NSRF notes an error of omission in the red-lined text for **Reportable Balancing Contingency Event (RBCE)** in the column entitled, “SDT Proposed New or Revised REDLINE TO Currently Approved” on page 31. To reflect the proposed changes accurately, the new definition should indicate the following as new text: “...decline in the responsible entity’s Reporting ACE...”

Likes 1

Lincoln Electric System, 1, Johnson Josh

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer

Document Name	
Comment	
Actual Net Interchange: Adjacent Balancing Authority Areas is not a defined term. It should read either Adjacent Balancing Authority areas or adjacent Balancing Authority Areas.	
Control Performance Standard (CPS) : remove “Daniel, please help” from the Notes column.	
Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2 and BAL-004-WECC-3.	
Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2.	

Likes 0	
Dislikes 0	

Response

David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman

Answer

Document Name

Comment

The proposed changes are largely clarifications of existing terms with a few new terms added for additional clarification and/or flexibility. We appreciate these types of changes. However, there is one issue with the proposed changes that we believe should be corrected. The notes column for “Control Performance Standard – (CPS)” state “Daniel, please help.” We believe the notes column for this term should be updated to reflect the changes made and why they were made as in the other proposed changes. Obviously, this is a minor oversight; however, we believe that correcting the notes column would provide additional clarification for this term.

Thank you for the opportunity to comment.

Likes 0	
Dislikes 0	

Response

Karrie Schuldts - Dairyland Power Cooperative - 1

Answer

Document Name

Comment

MRO/NSRF

Likes 0	
---------	--

Dislikes 0

Response

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer

Document Name

Comment

None

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer

Document Name

Comment

ITC is in support of the NSRF response

Likes 0

Dislikes 0

Response

Daniela Atanasovski - APS - Arizona Public Service Co. - 1

Answer

Document Name

Comment

None

Likes 0

Dislikes 0

Response

Constantin Chitescu - Ontario Power Generation Inc. - 5

Answer

Document Name

Comment

OPG supports NPCC Regional Standards Committee's comments.

Likes 0

Dislikes 0

Response

Bobbi Welch - Midcontinent ISO, Inc. - 2

Answer

Document Name

Comment

MISO supports comments filed by the SRC.

The SAR for this project states that its goal is to: "improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches." MISO recognizes this as a laudable goal; however, it is not one that will result in improved reliability near-term, nor will it address an immediate need as the Eastern Interconnection is not currently pursuing the implementation of an automated time error correction process. MISO recognizes that the first ballot for this project will be finalized coincident to the submission of these comments and that the ballot results may indicate that the remainder of this project can be completed in an efficient and timely manner.

However, in light of the growing number of standards development projects and the NERC Board of Trustees' recent solicitation for industry input regarding the **Prioritization of Activities and Effective Engagement** (questions provided below), if the ballot results indicate that the remainder of the development process for this project is likely to be extensive, then MISO recommends that NERC and industry defer action on this project at this time and reallocate resources to standards development projects that have a greater potential to mitigate risks and provide industry with more immediate reliability benefits; e.g. IBR performance standards.

1. What efforts underway at NERC do you believe do not provide value or are driving a disproportionate use of resources relative to the risk being mitigated?

2. What steps can NERC and industry take to achieve a better balance of resources relative to the risks being mitigated?

Comments re: [Reporting ACE Definition Master List Red-line](#)

To minimize confusion, MISO recommends the hyphens between the term and the acronym be removed in column, "NERC Glossary Term." This is to avoid the risk of the hyphen prior to the acronym being mistaken for a negative sign. For example, "Actual Net Interchange - (NIA)" should be revised to "Actual Net Interchange (NIA)."

MISO notes an error of omission in the red-lined text for **Reportable Balancing Contingency Event (RBCE)** in the column entitled, “SDT Proposed New or Revised REDLINE TO Currently Approved” on page 31. To reflect the proposed changes accurately, “the responsible entity’s Reporting” should be underlined in red-font as follows: “...decline in the responsible entity’s Reporting ACE...”

Likes 0

Dislikes 0

Response

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer

Document Name

Comment

The SRC would like to take this opportunity to thank the Standard Drafting Team for all their work and dedication to this Project.

The SAR for this project states that its goal is to: “improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.” The SRC recognizes this as a laudable goal; however, it is not one that will result in improved reliability near-term nor will it address an immediate need as the Eastern Interconnection is not currently pursuing the implementation of an automated time error correction process. The SRC recognizes that the first ballot for this project will be finalized coincident to the submission of these comments and that the ballot results may indicate that the remainder of this project can be completed in an efficient and timely manner.

However, in light of the growing number of standards development projects and the NERC Board of Trustees’ recent solicitation for industry input regarding the **Prioritization of Activities and Effective Engagement** (questions provided below), if the ballot results indicate that the remainder of the development process for this project is likely to be extensive, then the SRC recommends that NERC and industry defer action on this project at this time and reallocate resources to standards development projects that have a greater potential to mitigate risks and provide industry with more immediate reliability benefits; e.g. IBR performance standards.

1. What efforts underway at NERC do you believe do not provide value or are driving a disproportionate use of resources relative to the risk being mitigated?

2. What steps can NERC and industry take to achieve a better balance of resources relative to the risks being mitigated?

Comments re: [Reporting ACE Definition Master List Red-line](#)

- To minimize confusion, SRC recommends the hyphens between the term and the acronym be removed in column “NERC Glossary Term.” This is to avoid the risk of the hyphen prior to the acronym being mistaken for a negative sign. For example, “Actual Net Interchange - (NIA)” should be revised to “Actual Net Interchange (NIA).”
- The SRC notes an error of omission in the red-lined text for **Reportable Balancing Contingency Event (RBCE)** in the column entitled, “SDT Proposed New or Revised REDLINE TO Currently Approved” on page 31. To reflect the proposed changes accurately, the new definition should indicate the following as new text: “...decline in *the responsible entity’s Reporting ACE*...”

(Please note: PJM is not a party to the requested changes per Question #7)

Likes 0

Dislikes 0

Response

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer

Document Name

Comment

ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.

Likes 0

Dislikes 0

Response

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer

Document Name

Comment

he proposed changes are largely clarifications of existing terms with a few new terms added for additional clarification and/or flexibility. We appreciate these types of changes. However, there is one issue with the proposed changes that we believe should be corrected. The notes column for "Control Performance Standard – (CPS)" state "Daniel, please help." We believe the notes column for this term should be updated to reflect the changes made and why they were made as in the other proposed changes. Obviously, this is a minor oversight; however, we believe that correcting the notes column would provide additional clarification for this term.

Thank you for the opportunity to comment.

Likes 0

Dislikes 0

Response

Consideration of Comments

Project Name:	2022-01 Reporting ACE Definition and Associated Terms First Posting
Comment Period Start Date:	1/31/2023
Comment Period End Date:	3/16/2023
Associated Ballot(s):	<p>2022-01 Reporting ACE Definition and Associated Terms Modified - Actual Net Interchange (NIA) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Area Control Error (ACE) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Automatic Time Error Correction (ATEC) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Authority Area (BAA) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Contingency Event (BCE) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Control Performance Standard (CPS) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Disturbance IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Dynamic Interchange Schedule or Dynamic Schedule IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Bias Setting (FBS) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Error IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Implemented Interchange IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Inadvertent Interchange IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Interchange Meter Error -(IME) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Spinning IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Supplemental IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Overlap Regulation Service IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Pseudo-Tie IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Ramp Rate or Ramp IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Regulation Service IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Reportable Balancing Contingency Event (RBCE) IN 1 DEF</p> <p>2022-01 Reporting ACE Definition and Associated Terms Modified - Reporting Area Control Error (Reporting ACE) IN</p>

1 DEF

- 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group (RSG) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group Reporting ACE IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Frequency IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Net Interchange (NIS) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Supplemental Regulation Service IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Tie Line Bias (TLB) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error (TE) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error Correction (TEC) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms New - Inadvertent Interchange Management (IIM) IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Disturbance Control Standard IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Actual Interchange IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Interchange Schedule IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Scheduled Interchange IN 1 DEF
- 2022-01 Reporting ACE Definition and Associated Terms Retirement - Reportable Disturbance IN 1 DEF

There were 47 sets of responses, including comments from approximately 138 different people from approximately 97 companies representing 10 of the Industry Segments as shown in the table on the following pages.

All comments submitted can be reviewed in their original format on the [project page](#).

If you feel that your comment has been overlooked, let us know immediately. Our goal is to give every comment serious consideration in this process. If you feel there has been an error or omission, contact Director, Standards Development, [Latrice Harkness](#) (via email) or at (404) 858-8088.

Questions

1. Participating Balancing Authorities achieve reductions in their generation control and Reporting ACE by utilizing a frequency neutral form of ACE exchange, called ACE Diversity Interchange (ADI). Current implementations of ADI use offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. Guidance for implementing ADI processes is documented in a NERC technical reference document; however, concerns have been raised that not all participants may choose to include ADI in their Reporting ACE, which would result in the sum of Reporting ACE not being equal to zero for that interconnection. Since ADI is not currently a defined term, the standard drafting team (SDT) would like to poll industry. Please select one of the three options.
2. The SDT acknowledges that the NERC Glossary Terms: Automatic Generation Control, Interchange Schedule, and Pre-Reporting Contingency Event ACE Value are connected to the ACE definition and associated definitions, but did not find modifications needed. Does the entity agree that no changes are needed to the three NERC Glossary of Terms stated above? If not, please provide a proposal and justification as to why changes are necessary.
3. Does the entity propose any other specific changes to the NERC Glossary of Terms that were not changed and, if so, what specific term(s) are you in opposition to and why?
4. Does the entity believe that any proposed changes to the NERC Glossary of Terms modify any requirements in existing NERC reliability standards?
5. Does the entity oppose any specific proposed changes to the NERC Glossary of Terms and, if so, what specific term(s) are you in opposition to and why?
6. The SDT is proposing a 12-month implementation plan. Would this proposed timeframe give enough time to implement the proposed changes? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.
7. Please provide any additional comments for the SDT to consider, if desired.

The Industry Segments are:

- 1 — Transmission Owners
- 2 — RTOs, ISOs
- 3 — Load-serving Entities
- 4 — Transmission-dependent Utilities
- 5 — Electric Generators
- 6 — Electricity Brokers, Aggregators, and Marketers
- 7 — Large Electricity End Users
- 8 — Small Electricity End Users
- 9 — Federal, State, Provincial Regulatory or other Government Entities
- 10 — Regional Reliability Organizations, Regional Entities

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
BC Hydro and Power Authority	Adrian Andreoiu	1	WECC	BC Hydro	Hootan Jarollahi	BC Hydro and Power Authority	3	WECC
					Helen Hamilton Harding	BC Hydro and Power Authority	5	WECC
					Adrian Andreoiu	BC Hydro and Power Authority	1	WECC
WEC Energy Group, Inc.	Christine Kane	3		WEC Energy Group	Christine Kane	WEC Energy Group	3	RF
					Matthew Beilfuss	WEC Energy Group, Inc.	4	RF
					Clarice Zellmer	WEC Energy Group, Inc.	5	RF
					David Boeshaar	WEC Energy Group, Inc.	6	RF
Elizabeth Davis	Elizabeth Davis		RF,SERC	ISO/RTO Standards Review Committee	Mike Del Viscio	PJM	2	RF
					Bobbi Welch	Midcontinent ISO, Inc.	2	RF
					Helen Lainis	IESO	2	NPCC
					Kathleen Goodman	ISO-NE	2	NPCC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Charles Yeung	Southwest Power Pool, Inc. (RTO)	2	MRO
					Kennedy Meier	ERCOT	2	Texas RE
ACES Power Marketing	Jodirah Green	1,3,4,5,6	MRO,RF,SERC,Texas RE,WECC	ACES Collaborators	Bob Soloman	Hoosier Energy Electric Cooperative	1	RF
					Kevin Lyons	Central Iowa Power Cooperative	1	MRO
					Ryan Strom	Buckeye Power, Inc.	5	RF
					Dave Hartman	Arizona Electric Power Cooperative	1	WECC
					Scott Brame	NC Electric Membership Corporation	3,4,5	SERC
MRO	Jou Yang	1,2,3,4,5,6	MRO	MRO NSRF	Bobbi Welch	Midcontinent ISO, Inc.	2	MRO

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Chris Bills	City of Independence, Power and Light Department	5	MRO
					Fred Meyer	Algonquin Power Co.	3	MRO
					Christopher Bills	City of Independence Power & Light	3,5	MRO
					Larry Heckert	Alliant Energy Corporation Services, Inc.	4	MRO
					Marc Gomez	Southwestern Power Administration	1	MRO
					Matthew Harward	Southwest Power Pool, Inc. (RTO)	2	MRO
					Bryan Sherrow	Board of Public Utilities	1	MRO
					Terry Harbour	Berkshire Hathaway Energy - MidAmerican Energy Co.	1	MRO

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Terry Harbour	MidAmerican Energy Company	1,3	MRO
					Jamison Cawley	Nebraska Public Power District	1,3,5	MRO
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					Shonda McCain	Omaha Public Power District	6	MRO
					George E Brown	Pattern Operators LP	5	MRO
					George Brown	Acciona Energy USA	5	MRO
					Jaimin Patel	Saskatchewan Power Cooperation	1	MRO
					Kimberly Bentley	Western Area Power Administration	1,6	MRO
					Jay Sethi	Manitoba Hydro	1,3,5,6	MRO

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Michael Ayotte	ITC Holdings	1	MRO
Entergy	Julie Hall	6		Entergy	Oliver Burke	Entergy - Entergy Services, Inc.	1	SERC
					Jamie Prater	Entergy	5	SERC
FirstEnergy - FirstEnergy Corporation	Mark Garza	4		FE Voter	Julie Severino	FirstEnergy - FirstEnergy Corporation	1	RF
					Aaron Ghodooshim	FirstEnergy - FirstEnergy Corporation	3	RF
					Robert Loy	FirstEnergy - FirstEnergy Solutions	5	RF
					Mark Garza	FirstEnergy-FirstEnergy	1,3,4,5,6	RF
					Stacey Sheehan	FirstEnergy - FirstEnergy Corporation	6	RF
Southern Company - Southern Company Services, Inc.	Pamela Frazier	1,3,5,6	MRO,RF,SERC,Texas RE,WECC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Joel Dembowski	Southern Company - Alabama Power Company	3	SERC
					Jim Howell, Jr.	Southern Company - Southern Company Generation	5	SERC
					Ron Carlsen	Southern Company - Southern Company Generation	6	SERC
Northeast Power Coordinating Council	Ruida Shu	1,2,3,4,5,6,7,8,9,10	NPCC	NPCC RSC	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Sheraz Majid	Hydro One Networks, Inc.	1	NPCC
					Deidre Altobell	Con Edison	1	NPCC
					Jeffrey Streifling	NB Power Corporation	1	NPCC
					Michele Tondalo	United Illuminating Co.	1	NPCC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Chantal Mazza	Hydro Quebec	1	NPCC
					Stephanie Ullah-Mazzuca	Orange and Rockland	1	NPCC
					Quintin Lee	Eversource Energy	1	NPCC
					Michael Ridolfino	Central Hudson Gas & Electric Corp.	1	NPCC
					Dan Kopin	Vermont Electric Power Company	1	NPCC
					James Grant	NYISO	2	NPCC
					John Pearson	ISO New England, Inc.	2	NPCC
					Harishkumar Subramani Vijay Kumar	Independent Electricity System Operator	2	NPCC
					Nicolas Turcotte	Hydro-Quebec TransEnergie	1	NPCC
					Randy MacDonald	New Brunswick Power Corporation	2	NPCC
					Dermot Smyth	Con Ed - Consolidated	1	NPCC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Edison Co. of New York		
					David Burke	Orange and Rockland	3	NPCC
					Peter Yost	Con Ed - Consolidated Edison Co. of New York	3	NPCC
					Salvatore Spagnolo	New York Power Authority	1	NPCC
					Sean Bodkin	Dominion - Dominion Resources, Inc.	6	NPCC
					David Kwan	Ontario Power Generation	4	NPCC
					Silvia Mitchell	NextEra Energy - Florida Power and Light Co.	1	NPCC
					Glen Smith	Entergy Services	4	NPCC
					Sean Cavote	PSEG	4	NPCC
					Jason Chandler	Con Edison	5	NPCC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Tracy MacNicoll	Utility Services	5	NPCC
					Shivaz Chopra	New York Power Authority	6	NPCC
					Vijay Puran	New York State Department of Public Service	6	NPCC
					ALAN ADAMSON	New York State Reliability Council	10	NPCC
					David Kiguel	Independent	7	NPCC
					Joel Charlebois	AESI	7	NPCC
Western Electricity Coordinating Council	Steven Rueckert	10		WECC	Steve Rueckert	WECC	10	WECC
					Phil O'Donnell	WECC	10	WECC
Tim Kelley	Tim Kelley		WECC	SMUD	Ryder Couch	Sacramento Municipal Utility District	5	WECC
					Foung Mua	Sacramento Municipal Utility District	4	WECC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Wei Shao	Sacramento Municipal Utility District	1	WECC
					Nicole Looney	Sacramento Municipal Utility District	3	WECC
					Charles Norton	Sacramento Municipal Utility District	6	WECC
Santee Cooper	Vicky Budreau	3		Santee Cooper	Diana Scott	Santee Cooper	1,3,5,6	SERC
					Heugnette Bostic	Santee Cooper	1,3,5,6	SERC
					Cindy Corson	Santee Cooper	1,3,5,6	SERC
					Clarke McKenzie	Santee Cooper	1,3,5,6	SERC
					Adam Taylor	Santee Cooper	1,3,5,6	SERC
					Jason Smith	Santee Cooper	1,3,5,6	SERC
					Lachelle Brooks	Santee Cooper	1,3,5,6	SERC

1. Participating Balancing Authorities achieve reductions in their generation control and Reporting ACE by utilizing a frequency neutral form of ACE exchange, called ACE Diversity Interchange (ADI). Current implementations of ADI use offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. Guidance for implementing ADI processes is documented in a NERC technical reference document; however, concerns have been raised that not all participants may choose to include ADI in their Reporting ACE, which would result in the sum of Reporting ACE not being equal to zero for that interconnection. Since ADI is not currently a defined term, the standard drafting team (SDT) would like to poll industry. Please select one of the three options.

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer Yes

Document Name

Comment

MRO NSRF supports adding the definition of ADI to the NERC Glossary of Terms to ensure equal inclusion of ADI in participants' Reporting ACE. MRO NSRF recognizes the reliability impact caused by not having all participants in an ADI program uniformly include the ADI adjustment in their Reporting ACE, such as diminishing the CPS1 metric. MRO NSRF proposes the following definition for ADI:

ACE Diversity Interchange (ADI): A frequency neutral form of exchange that participating Balancing Authorities utilize to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. To ensure uniformity in reporting, all participating Balancing Authorities in a specified ADI program must either include or exclude the impact of ADI in their Reporting ACE collectively.

MRO NSRF also supports the intent of check box #2; however, the language "as is" is problematic. MRO NSRF would be open to supporting check box #2 if it was clarified such that ADI must be included in the Reporting ACE of participating BAs only. In addition, MRO NSRF's support of adding a definition of ADI to the NERC Glossary is contingent upon the SDT clarifying reporting applicability, i.e. only entities participating in an ADI program must report ADI; for non-participating Balancing Authorities, ADI is null so there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC or EMS merely to report a null value.

Likes 1 Lincoln Electric System, 1, Johnson Josh

Dislikes 0	
Response	
Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2. The SDT did not have the intent to require participation in an ADI group. The intent was to provide clarity on the inclusion or exclusion in Reporting ACE by those who do participate.	
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5	
Answer	
Document Name	
Comment	
CHPD does not participate in ADI but believes entities in an ADI group should all be consistent with how they include ADI in Reporting ACE.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	
Document Name	
Comment	
ERCOT has no position on this question.	
Likes 0	
Dislikes 0	
Response	

Thank you for the response.	
Holly Mitchell - NorthWestern Energy - 1,2,3,4,5,6,7,8,9,10 - WECC	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Alain Mukama - Hydro One Networks, Inc. - 1	
Answer	Leave ADI undefined
Document Name	
Comment	
No impact to Hydro One.	
Likes 0	
Dislikes 0	
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	Leave ADI undefined
Document Name	

Comment	
Likes	0
Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Julie Hall - Entergy - 6, Group Name Entergy	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes	0
Dislikes	0
Response	

The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer Leave ADI undefined

Document Name

Comment

Likes 0

Dislikes 0

Response

The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer Leave ADI undefined

Document Name

Comment

Likes 0

Dislikes 0

Response

The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.

Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2

Answer Leave ADI undefined

Document Name

Comment	
Likes	0
Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	Leave ADI undefined
Document Name	
Comment	
Define ACE Sharing Group and require the relevant sharing component to be included in Reporting ACE	
Likes	0
Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes	0

Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Carl Pineault - Hydro-Quebec Production - 5	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Leave ADI undefined
Document Name	
Comment	
Treatment of ADI is different for BAL-001 and BAL-002 compliance per the NERC Technical Reference.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. The difference between BAL-001 and BAL-002 treatment of ADI should be handled in the ADI guideline document, not in the NERC Glossary of Terms.	

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's considerations	
Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC	
Answer	Leave ADI undefined
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	Leave ADI undefined
Document Name	
Comment	

<p>APS is unaware of any reliability need or justification to require this term to be defined. For this reason, we support ADI remaining undefined.</p>	
Likes	0
Dislikes	0
<p>Response</p>	
<p>The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.</p>	
<p>Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable</p>	
Answer	Leave ADI undefined
Document Name	
<p>Comment</p>	
<p>: EEI is unaware of any reliability need or justification to require this term to be defined. For this reason, we support ADI remaining undefined.</p>	
Likes	0
Dislikes	0
<p>Response</p>	
<p>Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2.</p>	
<p>Constantin Chitescu - Ontario Power Generation Inc. - 5</p>	
Answer	Leave ADI undefined
Document Name	
<p>Comment</p>	
<p></p>	
Likes	0

Dislikes	0
Response	
The SDT has interpreted the majority of the responses received to this question as favoring a definition of ADI to be added to the Glossary and has proposed a definition for industry's consideration.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Ameren agrees with and supports MISO comments.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to MISO comment.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
None.	
Likes	0
Dislikes	0
Response	

Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.

Nazra Gladu - Manitoba Hydro - 1

Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
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Document Name	
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Comment

Manitoba Hydro supports the addition of ACE Diversity Interchange (ADI) to the NERC Glossary of terms. However, there is concern over the further impact to Reporting ACE and BAL standards that are not identified in Project 2022-01. BA's that do not make use of the ADI should not be required to report on ADI as part of the BAL standards. As such, ADI is only required to be part of a BA's AGC program and reporting if this feature is utilized.

Likes	0
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Dislikes	0
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Response

Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2. The SDT did not have the intent to require participation in an ADI group. The intent was to provide clarity on the inclusion or exclusion in Reporting ACE by those who do participate.

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
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Document Name	
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Comment

Likes	0
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Dislikes	0
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Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
WEC Energy supports MISOs comments.	
Likes	0
Dislikes	0
Response	
Thank you for the comment please see response to MISO's comment.	
Claudine Bates - Black Hills Corporation - 6	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	

Micah Runner - Black Hills Corporation - 1	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	

Comment	
Likes	0
Dislikes	0
Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	
Diana Torres - Imperial Irrigation District - 6	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
A definition of ADI needs to be added to the NERC Glossary of Terms and it needs to be defined and made clear where the ADI term should be added into Reporting ACE for ADI participants. For the Balancing Authorities who are not participating in ADI, no ADI term needs to be added into Reporting ACE.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to MISO comment.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.s	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
A definition of ADI needs to be added to the NERC Glossary of Terms and it needs to be defined and made clear where the ADI term should be added into Reporting ACE for ADI participants. For the Balancing Authorities who are not participating in ADI, no ADI term needs to be added into Reporting ACE.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2. The SDT did not have the intent to require participation in an ADI group. The intent was to provide clarity on the inclusion or exclusion in Reporting ACE by those who do participate.	
Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	
Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
SIGE supports comments submitted by MISO.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see the response to MISO's comment.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes	0
Dislikes	0

Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2. The SDT did not have the intent to require participation in an ADI group. The intent was to provide clarity on the inclusion or exclusion in Reporting ACE by those who do participate.	
Kinte Whitehead - Exelon - 3	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The SDT agrees with adding the definition. Concerns were brought up by entities who participate in ADI regarding requirements to include ADI in Reporting ACE. The SDT decided to include language in Reporting ACE in principle number 2.	

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	
<p>SPP supports adding the definition of ADI to the NERC Glossary of Terms to ensure equal inclusion of ADI in participants' Reporting ACE. SPP recognizes the reliability impact caused by not having all participants in an ADI program uniformly include the ADI adjustment in their Reporting ACE, such as diminishing the CPS1 metric. SPP proposes the following definition for ADI:</p> <p style="padding-left: 40px;">ACE Diversity Interchange (ADI): A frequency neutral form of exchange that participating Balancing Authorities utilize to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. To ensure uniformity in reporting, all participating Balancing Authorities in a specified ADI program must either include or exclude the impact of ADI in their Reporting ACE collectively</p>	
Likes	0
Dislikes	0
Response	
Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE
Document Name	
Comment	

Southern Company believes that any values affecting the ACE calculation should be included in the NERC Glossary of terms. This would require a definition to maintain consistency. However, we also believe that ADI should only be included in a BA's ACE equation if the BA is part of an ADI process and similar comments to questions #3 and #4 would apply as to how this should be treated.

Likes 0

Dislikes 0

Response

Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2. The SDT did not have the intent to require participation in an ADI group. The intent was to provide clarity on the inclusion or exclusion in Reporting ACE by those who do participate.

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer

Add a definition of ADI to the NERC Glossary of terms with a statement that ADI must be included in Reporting ACE

Document Name

Comment

ITC is in support of the NSRF response

Likes 0

Dislikes 0

Response

Thank you for the comment. Please see the response to NSRF.

Sandra Ellis - Pacific Gas and Electric Company - 3

Answer

Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE

Document Name

Comment

Since the term is documented in NERC technical reference documents, ADI should be defined in the NERC Glossary of terms.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2.	
David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman	
Answer	Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE
Document Name	
Comment	
AEPCO signs on to the comments by ACES Power Marketing.	
It is our opinion that adding ADI to the NERC Glossary of terms will provide all participants with an easy reference source for this term; however, we believe that the individual entities should have the flexibility to choose whether they should implement the ADI methodology.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see the response to MISO comment.	
Karrie Schuldt - Dairyland Power Cooperative - 1	
Answer	Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE
Document Name	
Comment	

MRO/NSRF	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see the response to MRO/NSRF comment.	
Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE
Document Name	
Comment	
<p>MISO supports adding the definition of ADI to the NERC Glossary of Terms to ensure equal inclusion of ADI in participants' Reporting ACE if and only if the addition makes clear that any requirement to include ADI in Reporting ACE applies only to Balancing Authorities participating in an ADI program. Since ADI is null for Balancing Authorities not participating in an ADI program, there should be no obligation for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC, or EMS merely to report a null value.</p> <p>MISO recognizes the reliability impact, such as diminishing the CPS1 metric, that results when only some participants in an ADI program include the ADI adjustment in their Reporting ACE, and would therefore support language requiring all Balancing Authorities participating in a specified ADI program to uniformly include or exclude ADI from their Reporting ACE. MISO proposes the following definition for ADI:</p> <p>ACE Diversity Interchange (ADI): A frequency neutral form of exchange that participating Balancing Authorities utilize to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant. To ensure uniformity in reporting, all participating Balancing Authorities in a specified ADI program must either include or exclude the impact of ADI in their Reporting ACE collectively.</p>	
Likes	0
Dislikes	0
Response	

Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE
Document Name	
Comment	
It is our opinion that adding ADI to the NERC Glossary of terms will provide all participants with an easy reference source for this term; however, we believe that the individual entities should have the flexibility to choose whether they should implement the ADI methodology.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. The SDT decided to include a specification on ADI in Reporting ACE in principle number 2. The SDT did not have the intent to require participation in an ADI group. The intent was to provide clarity on the inclusion or exclusion in Reporting ACE by those who do participate.	

2. The SDT acknowledges that the NERC Glossary Terms: Automatic Generation Control, Interchange Schedule, and Pre-Reporting Contingency Event ACE Value are connected to the ACE definition and associated definitions, but did not find modifications needed. Does the entity agree that no changes are needed to the three NERC Glossary of Terms stated above? If not, please provide a proposal and justification as to why changes are necessary.

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer No

Document Name

Comment

ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.

Likes 0

Dislikes 0

Response

Please see response to PJM.

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer No

Document Name

Comment

The SRC proposes the following non-substantive modifications to the definition of Automatic Generation Control: A process designed and used to adjust a Balancing Authority *Areas' Area's* Demand and resources to help maintain the Reporting ACE **in that of a** Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.

Please note: the request is to replace Areas' with Area's; and include the words 'in that!'; and remove the words 'of a'.

Likes	0
Dislikes	0
Response	
Thank you for the comment, the new definition list reflects this non substantive change.	
Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	No
Document Name	
Comment	
<p>MISO supports comments filed by the ISO/RTO Council (IRC) Standards Review Committee (SRC) and proposes the following non-substantive modifications to the definition of Automatic Generation Control.</p> <p>Automatic Generation Control (AGC): A process designed and used to adjust a Balancing Authority Areas' Area's Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.</p>	
Likes	0
Dislikes	0
Response	
Please see response to PJM.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	No
Document Name	
Comment	
See Response #7 below.	
Likes	0

Dislikes	0
Response	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	Yes
Document Name	
Comment	
EEI agrees that the NERC Glossary Terms (i.e., Automatic Generation Control, Interchange Schedule, and Pre-Reporting Contingency Event ACE Value) do not need to be changed.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes
Document Name	
Comment	
ITC is in support of the NSRF response	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to NSRF.	
Karrie Schuldt - Dairyland Power Cooperative - 1	

Answer	Yes
Document Name	
Comment	
MRO/NSRF	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. Please see response to MRO/NSRF.	
Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC	
Answer	Yes
Document Name	
Comment	
PNM agrees.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	Yes
Document Name	
Comment	

No impact to BHP.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	Yes
Document Name	
Comment	
No impact to BHP.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Micah Runner - Black Hills Corporation - 1	
Answer	Yes
Document Name	
Comment	
No impact to BHP.	
Likes 0	
Dislikes 0	

Response	
Thank you for the comment.	
Claudine Bates - Black Hills Corporation - 6	
Answer	Yes
Document Name	
Comment	
No impact to BHP.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Sandra Ellis - Pacific Gas and Electric Company - 3	
Answer	Yes
Document Name	
Comment	
Concur with SDT since the fundament definitions for AGC, Interchange Schedule, and Pre-Reporting Contingency Event Ace did not change.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	Yes

Document Name	
Comment	
FirstEnergy offers no comments toward this question.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Alain Mukama - Hydro One Networks, Inc. - 1	
Answer	Yes
Document Name	
Comment	
No impact to Hydro One.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes	0
Response	
Thank you for the comment.	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Kinte Whitehead - Exelon - 3	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	Yes
Document Name	
Comment	
Likes	0

Dislikes	0
Response	
Thank you for the comment.	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Carl Pineault - Hydro-Quebec Production - 5	
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; FOUNG MUA, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2	

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Diana Torres - Imperial Irrigation District - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for the comment.	
Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Nazra Gladu - Manitoba Hydro - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Julie Hall - Entergy - 6, Group Name Entergy	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Jendras Sr - Ameren - Ameren Services - 3	

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for the comment.	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	Add a definition of ADI to the NERC Glossary of terms with no specification that ADI is to be included in Reporting ACE
Document Name	
Comment	
Likes 1	Lincoln Electric System, 1, Johnson Josh
Dislikes 0	
Response	
Thank you for the comment.	

3. Does the entity propose any other specific changes to the NERC Glossary of Terms that were not changed and, if so, what specific term(s) are you in opposition to and why?	
Alain Mukama - Hydro One Networks, Inc. - 1	
Answer	No
Document Name	
Comment	
No impact to Hydro One.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	No
Document Name	
Comment	
FirstEnergy offers no comments toward this question.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC	

Answer	No
Document Name	
Comment	
Nothing other than the definition of PII and its components are readable.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC	
Answer	No
Document Name	
Comment	
No other changes proposed.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Karrie Schuldt - Dairyland Power Cooperative - 1	
Answer	No
Document Name	
Comment	

MRO/NSRF	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	No
Document Name	
Comment	
ITC is in support of the NSRF response	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	No
Document Name	
Comment	
EEI does not offer any changes to the NERC Glossary of Terms.	
Likes	0
Dislikes	0

Response	
Thank you for the comment.	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	No
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Julie Hall - Entergy - 6, Group Name Entergy	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Nazra Gladu - Manitoba Hydro - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	

Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Sandra Ellis - Pacific Gas and Electric Company - 3	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for the comment.	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Claudine Bates - Black Hills Corporation - 6	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Micah Runner - Black Hills Corporation - 1	
Answer	No
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Diana Torres - Imperial Irrigation District - 6	

Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for the comment.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper	
Answer	No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thank you for the comment.	
Carl Pineault - Hydro-Quebec Production - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	No
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Kinte Whitehead - Exelon - 3	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thank you for the comment.	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	No
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	Yes

Document Name	
Comment	
See Response #7 below.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	Yes
Document Name	
Comment	
<p>BC Hydro appreciates the opportunity to review and offers comments on the revised definitions for Area Control Error (ACE), Automatic Time Error Correction (ATEC), Control Performance Standard (CPS), Frequency Bias Setting (FBS) and Interchange Meter Error (IME) as follows.</p> <ul style="list-style-type: none"> • ACE – Recommend “Frequency Bias” be changed to “entity’s Frequency Bias”, to remove any ambiguities (e.g. might be interpreted as interconnection bias, etc.) • ATEC – The “that modifies the control point” wording should be removed, as the “control point” is undefined; the intent of the definition is sufficiently clear without this phrase. Additionally, for “IATEC shall be zero when operating in any other AGC mode.”: it is unclear what other “AGC modes” there are, as the applicable AGC mode has not been specified. Recommend changing to “IATEC shall be zero when operating in any AGC mode other than TLBC (Tie Line Bias Control)” • CPS – It is not a methodology nor a control; rather, BC Hydro suggests that CPS is a method for relating Reporting ACE to Frequency Error to provide objective indication whether sufficient secondary AGC control has been applied to maintain energy balance and Scheduled Frequency. • FBS – Please confirm if this is to the same as the “Frequency Bias” term mentioned in ATEC. If it is, recommend matching the terms for consistency (e.g. change this to “Frequency Bias”). 	

<ul style="list-style-type: none"> IME – Recommend replacing “any other components” with “... to compensate for data or equipment errors affecting the Actual Net Interchange component” 	
Likes	0
Dislikes	0
Response	
Thank you for the suggestions. The team will use these as guides during this drafting period.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes
Document Name	
Comment	
See response to question #4.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	

Thank you for the comment.	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	Yes
Document Name	
Comment	
Likes 1	Lincoln Electric System, 1, Johnson Josh
Dislikes 0	
Response	
Thank you for the comment.	

4. Does the entity believe that any proposed changes to the NERC Glossary of Terms modify any requirements in existing NERC reliability standards?

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer No

Document Name [ACE-4.PNG](#)

Comment

MRO NSRF is concerned that the proposed changes to Reporting ACE *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, MRO NSRF requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(A TEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection. Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Likes 1 Lincoln Electric System, 1, Johnson Josh

Dislikes 0

Response

Thank you for the comment. The team made changes to reflect these comments.

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer	No
Document Name	
Comment	
EEI is unaware of any problems with the proposed changes to the NERC Glossary of Terms under this project (as proposed in Draft 1) that might negatively impact enforceable requirements in any of the NERC Reliability Standards that are currently mandatory and subject to enforcement.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC	
Answer	No
Document Name	
Comment	
Following review, no changes to standards was identified.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	No
Document Name	
Comment	

Changes proposed have no impact to FirstEnergy.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	No
Document Name	
Comment	
None.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Alain Mukama - Hydro One Networks, Inc. - 1	
Answer	No
Document Name	
Comment	
No impact to Hydro One.	
Likes	0
Dislikes	0

Response	
Thank you for the comment.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Kinte Whitehead - Exelon - 3	

Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for the comment.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Carl Pineault - Hydro-Quebec Production - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	No
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. a	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Thank you for the comment.

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Thank you for the comment.

Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2

Answer No

Document Name

Comment

Likes 0

Dislikes	0
Response	
Thank you for the comment.	
Diana Torres - Imperial Irrigation District - 6	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	No
Document Name	

Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Micah Runner - Black Hills Corporation - 1	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Claudine Bates - Black Hills Corporation - 6	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	

Meaghan Connell - Public Utility District No. 1 of Chelan County - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Julie Hall - Entergy - 6, Group Name Entergy	
Answer	No
Document Name	
Comment	
Likes 0	

Dislikes	0
Response	
Thank you for the comment.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	Yes
Document Name	

Comment

ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.

Likes 0

Dislikes 0

Response

Thank you for the comment. Please see response to ISO/RTO council.

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer

Yes

Document Name

Comment

The SRC is concerned that the proposed changes *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, the SRC requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(ATEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC, or EMS merely to incorporate or report a null value.

Likes 0

Dislikes 0

Response

Thank you for this comment. The team has taken this into consideration and made the necessary changes.

Bobbi Welch - Midcontinent ISO, Inc. - 2

Answer

Yes

Document Name

Comment

MISO supports comments filed by the SRC and is concerned that the proposed changes to Reporting ACE *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, MISO requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(A TEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Likes	0
Dislikes	0
Response	
Thank you for the comment. These changes were acknowledged and the definition was modified.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes
Document Name	
Comment	
ITC is in support of the NSRF response	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes
Document Name	
Comment	
While the modified definition of Area Control Error (ACE) includes the language “if operating in the Inadvertent Interchange Management mode”, the “Reporting Area Control Area Error – (Reporting ACE)” definition and subsequent equation infers the component should be included in the Balancing Authority’s Reporting ACE. This addition would modify the requirements of the existing standards. One possible solution would be to clarify in the Reporting ACE definitions: IIM = Inadvertent Interchange Management <i>if utilized</i> .	
Likes	0

Dislikes	0
Response	
Thank you for the comment. The team has taken this into to consideration when drafting the new defintions.	
Karrie Schuldt - Dairyland Power Cooperative - 1	
Answer	Yes
Document Name	
Comment	
MRO/NSRF	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	Yes
Document Name	
Comment	
SPP supports the comments of the MRO NSRF	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF	

Answer	Yes
Document Name	
Comment	
SIGE supports comments submitted by MISO.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. Please see response to MISO.	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	Yes
Document Name	
Comment	
WEC Energy Group supports MISO's comments.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. Please see response to MISO.	
Sandra Ellis - Pacific Gas and Electric Company - 3	
Answer	Yes
Document Name	
Comment	

BAL Standards	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Nazra Gladu - Manitoba Hydro - 1	
Answer	Yes
Document Name	
Comment	
<p>Manitoba Hydro supports the addition of the new Inadvertent Interchange Management (IIM) component within Reporting ACE. However, the IIM term within the RACE calculation will impact BAL standards, incur significant enhancements to EMS AGC applications and require an external regional system to deploy proper use within each interconnect. This change, although appearing small in nature, is quite significant for those EMS vendors that do not allow such a feature. As such, industry will require additional time, design, and vetting prior to moving ahead with IIM. Manitoba Hydro recommends that wording in the definition of RACE and/or BAL standards address the following:</p> <ol style="list-style-type: none"> 1) IIM should be considered as null for those interconnects/BA's that do not deploy this term within RACE for their system. 2) IIM should not be required as part of a BA's AGC system calculation or accounting unless deployed within the interconnect/BA. 	
Likes	0
Dislikes	0
Response	
Thank you for the comment. The modifications to the I(im) term addresses these changes with regards to the null term.	
There is no expectation of an EMS change to be made for null variables of the reporting ace definition.	

David Jendras Sr - Ameren - Ameren Services - 3	
Answer	Yes
Document Name	
Comment	
Ameren agrees with and supports MISO comments.	
Likes	0
Dislikes	0
Response	
Thank you for the comment response. Please see response to MISO.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	
Document Name	
Comment	
NA	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	

5. Does the entity oppose any specific proposed changes to the NERC Glossary of Terms and, if so, what specific term(s) are you in opposition to and why?	
Alain Mukama - Hydro One Networks, Inc. - 1	
Answer	No
Document Name	
Comment	
No proposed changes to NERC Glossary of Terms.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	No
Document Name	
Comment	
FirstEnergy offers no comments toward this question.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	

Answer	No
Document Name	
Comment	
No proposed changes to NERC Glossary of Terms.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	No
Document Name	
Comment	
EEI does not oppose any of the proposed changes to the NERC Glossary Terms modified and as proposed in this Draft 1 posting.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	No
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Julie Hall - Entergy - 6, Group Name Entergy	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Sandra Ellis - Pacific Gas and Electric Company - 3	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thank you for the comment.	
Claudine Bates - Black Hills Corporation - 6	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Micah Runner - Black Hills Corporation - 1	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	No
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Diana Torres - Imperial Irrigation District - 6	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2	
Answer	No

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	No
Document Name	
Comment	
Likes 0	

Dislikes	0
Response	
Thank you for the comment.	
Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Carl Pineault - Hydro-Quebec Production - 5	
Answer	No
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	

Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Kinte Whitehead - Exelon - 3	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman	
Answer	No
Document Name	
Comment	
Likes 0	

Dislikes	0
Response	
Thank you for the comment.	
Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	No
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	Yes
Document Name	
Comment	
Ameren agrees with and supports MISO comments.	
Likes 0	
Dislikes 0	
Response	

Thank you for the comment.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	Yes
Document Name	
Comment	
See Response #7 below.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Nazra Gladu - Manitoba Hydro - 1	
Answer	Yes
Document Name	
Comment	
<p>As discussed in question 4, the new Inadvertent Interchange Management (IIM) component within Reporting ACE may incur impact to BAL standards, RACE and EMS AGC applications. While</p> <p>Manitoba Hydro supports the inclusion of IIM, we request that NERC provide wording to address IIM as listed in question 4:</p> <ol style="list-style-type: none"> 1) IIM should be considered as null for those interconnects/BA's that do not deploy this term within RACE for their system. 2) IIM should not be required as part of a BA's AGC system calculation or accounting unless deployed within the interconnect/BA. 	
Likes	0
Dislikes	0
Response	

Thank you for the comment. The team elaborated on the IIM definition and addressed these concerns.	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	Yes
Document Name	
Comment	
WEC Energy Group supports MISOs comments.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to MISO.	
Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	Yes
Document Name	
Comment	
<p>BC Hydro appreciates the opportunity to review and offers comments on the revised definitions for Area Control Error (ACE), Automatic Time Error Correction (ATEC), Control Performance Standard (CPS), Frequency Bias Setting (FBS) and Interchange Meter Error (IME) as follows.</p> <ul style="list-style-type: none"> • ACE – Recommend “Frequency Bias” be changed to “entity’s Frequency Bias”, to remove any ambiguities (e.g. might be interpreted as interconnection bias, etc.) • ATEC – The “that modifies the control point” wording should be removed, as the “control point” is undefined; the intent of the definition is sufficiently clear without this phrase. Additionally, for “IATEC shall be zero when operating in any other AGC mode.”: it is unclear what other “AGC modes” there are, as the applicable AGC mode has not been specified. Recommend changing to “IATEC shall be zero when operating in any AGC mode other than TLBC (Tie Line Bias Control)” 	

- CPS – It is not a methodology nor a control; rather, BC Hydro suggests that CPS is a method for relating Reporting ACE to Frequency Error to provide objective indication whether sufficient secondary AGC control has been applied to maintain energy balance and Scheduled Frequency.
- FBS – Please confirm if this is to the same as the “Frequency Bias” term mentioned in ATEC. If it is, recommend matching the terms for consistency (e.g. change this to “Frequency Bias”).
- IME – Recommend replacing “any other components” with “... to compensate for data or equipment errors affecting the Actual Net Interchange component”

Likes 0

Dislikes 0

Response

Thank you for the comment. The team modified the definitions.

Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF

Answer

Yes

Document Name

Comment

SIGE supports comments submitted by MISO.

Likes 0

Dislikes 0

Response

Thank you for the comment.

Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF

Answer

Yes

Document Name

Comment

As mentioned in our response to Question 4, MRO NSRF is concerned that the proposed changes to Reporting ACE *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, MRO NSRF requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(A TEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection. Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Similarly, as noted in MRO NSRF’s response to Question 1, our support for adding a definition of ADI to the NERC Glossary is contingent upon the SDT clarifying reporting applicability; i.e. only entities participating in an ADI program must report ADI; for non-participating Balancing Authorities, ADI is null so there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Likes	1	Lincoln Electric System, 1, Johnson Josh
Dislikes	0	
Response		
Thank you for the comment. The definitions have been updated.		
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC		
Answer	Yes	
Document Name		
Comment		

SPP supports the comments of the MRO NSRF	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Karrie Schuldt - Dairyland Power Cooperative - 1	
Answer	Yes
Document Name	
Comment	
MRO/NSRF	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes
Document Name	
Comment	
The terms “Actual Net Interchange (NIA)” and “Scheduled Net Interchange (NIS)” used in the proposed ACE definition don’t match the revised terms where the terms and acronyms are separated by a hyphen.	
Likes 0	

Dislikes	0
Response	
Thank you for the comment. The changes have been made.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes
Document Name	
Comment	
ITC is in support of the NSRF response	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	Yes
Document Name	
Comment	
<p>MISO supports comments filed by the SRC and is concerned that the proposed changes to Reporting ACE <i>may</i> result in new EMS requirements (in terms of the Reporting ACE calculation) and <i>may</i> result in new administrative requirements in the form of compliance reporting.</p> <p>To the extent this is not the intent of the SDT, MISO requests the SDT clarify what the intent is of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:</p> <p>Reporting ACE = (NIA &minus; NIS) &minus; 10B (FA &minus; FS) – IME + I(IM);</p>	

- I(IM) = Inadvertent Interchange Management.

- In the Western Interconnection this term is I(ATEC)

- The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Similarly, as noted in MISO’s response to Question 1, our support for adding a definition of ADI to the NERC Glossary is contingent upon the SDT clarifying reporting applicability; i.e. only entities participating in an ADI program must report ADI; for non-participating Balancing Authorities, ADI is null so there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE, AGC or EMS merely to report a null value.

Likes	0
Dislikes	0

Response

Thank you for this comment. The team updated the definitions.

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer	Yes
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Document Name	
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Comment

As mentioned in our response to Question 4, the SRC is concerned that the proposed changes *may* result in new EMS requirements (in terms of the Reporting ACE calculation) and *may* result in new administrative requirements in the form of compliance reporting.

To the extent this is not the intent of the SDT, the SRC requests the SDT clarify the intent of the I sub “IM” variable; e.g. “The I(IM) value is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.” See proposed language below:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + I(IM);

• I(IM) = Inadvertent Interchange Management.

• In the Western Interconnection this term is I(ATEC)

• The I(IM) value is not used for unilateral paybacks and is null unless there is a Regional Procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Where I(IM) is null, there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC, or EMS merely to incorporate or report a null value.

Likes	0
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Dislikes	0
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Response

Thank you for this comment. The team updated definitions.

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer	Yes
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Document Name	
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Comment

ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.

Likes	0
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Dislikes	0
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Response

Thank you for the comment.

Rachel Coyne - Texas Reliability Entity, Inc. - 10

Answer	
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Document Name	
Comment	
<p>Texas RE generally agrees with the proposed revisions to the NERC Glossary of terms. Texas RE is concerned, however, that the definition of Reportable Balancing Contingency Event (RBCE) continues to use the term Regional Reliability Organization (RRO). This term has not been used in some time and Texas RE recommends removing it as it has already been removed from older Reliability Standards that contained the term.</p> <p>Texas RE also noticed the following in certain definitions:</p> <ul style="list-style-type: none"> • Area Control Error (ACE) – Texas RE recommends keeping the term Balancing Authority, rather than “entity” as it will always be the Balancing Authority. If the term Reporting ACE is to be used for compliance, then that is the term that should be used in the Requirements. Texas RE notes that BAL-005-1 does use the term Reporting ACE, rather than ACE. • Balancing Authority Area - EOP-011-2 is effective as of April 1, 2023, and EOP-011-1 is being retired. Texas RE recommends updating the version. • Reporting ACE - The term “equation” was struck from one sentence but not from another when discussing the Reporting ACE (“will provide a valid alternative to this Reporting ACE equation”. Was this the SDT’s intent? • The term Adjacent Balancing Authority Area is not defined, though Adjacent Balancing Authority and Balancing Authority Area are defined terms. This phrase appears in the definitions of Actual Net Interchange, where it is capitalized, and in the definition of Scheduled Net Interchange, where area is not capitalized. Texas RE recommends being consistent with the use of the term. 	
Likes	0
Dislikes	0
Response	
Thank you for this comment. The team updated the definitions.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	
Document Name	
Comment	

NA	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	

6. The SDT is proposing a 12-month implementation plan. Would this proposed timeframe give enough time to implement the proposed changes? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer No

Document Name

Comment

If the EI were to implement IIM, at least 24 months would be needed. 12 months to discuss the details and 12 months to implement.

Likes 0

Dislikes 0

Response

Thank you for the comment. If a regional entity does implement the IIM term, it will be done through a process separate from this drafting team. Implementation timeline will be addressed then. Please refer to the updated definition of Reporting ACE.

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer No

Document Name

Comment

Eighteen months would be a better time frame to allow all operating procedures to be modified by the BA's to reflect the definition changes.

Likes 0

Dislikes	0
Response	
Thank you for this comment. The drafting team will take it into consideration when finalizing the Implementation Plan.	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	No
Document Name	
Comment	
18 months would be a better time frame to allow all operating procedures to be modified by the BA's to reflect the definition changes.	
Likes	0
Dislikes	0
Response	
Thank you for this comment. The drafting team will take it into consideration when finalizing the Implementation Plan.	
Nazra Gladu - Manitoba Hydro - 1	
Answer	No
Document Name	
Comment	
As stated in our responses to questions 1, 4 and 5, Manitoba Hydro does not support the proposed timeline if EMS Vendors are required to update their AGC applications to meet the new IIM and ADI terms. As such, the 12 month timeline will need to be extended to 36 months to allow a reasonable amount of time for design, development and testing of the new functionality within AGC.	
Likes	0
Dislikes	0

Response

The intent is that no EMS software change be necessary. Please refer to the updated definition of Reporting ACE. ADI is not currently included in the NERC Glossary.

Julie Hall - Entergy - 6, Group Name Entergy

Answer No

Document Name

Comment

Prior to confirming the implementation timeframe, Entergy recommends that utilities contact their control system software vendors to ensure that any potential coding modifications required to support these changes can be completed within the proposed 12-month implementation timeframe.

Likes 0

Dislikes 0

Response

The intent is that no EMS software change be necessary. Please refer to the updated definition of Reporting ACE.

Diana Torres - Imperial Irrigation District - 6

Answer No

Document Name

Comment

Likes 0

Dislikes 0

Response

Thank you for the comment.

Sandra Ellis - Pacific Gas and Electric Company - 3

Answer	No
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	Yes
Document Name	
Comment	
ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. Please see response to ISO/RTO SRC.	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	Yes
Document Name	
Comment	

<p>The SRC's "Yes" response is contingent upon the SDT clarifying that the Reporting ACE definition will indicate the I(IM) value is null for non-participating Balancing Authorities and that there is no requirement for non-participating Balancing Authorities to make changes to their AGC merely to report a null value. If this is not the case, a longer implementation plan would be necessary.</p>	
Likes	0
Dislikes	0
Response	
<p>Thank you for the comment. The drafting team has taken this comment into consideration when drafting the updated version of the definitions.</p>	
Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	Yes
Document Name	
Comment	
<p>MISO supports comments filed by the SRC and its "Yes" response is contingent upon the SDT clarifying that the Reporting ACE definition will indicate the I(IM) value is null for non-participating Balancing Authorities and that there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC or EMS merely to report a null value. If this is not the case, a longer implementation plan would be necessary.</p>	
Likes	0
Dislikes	0
Response	
<p>Thank you for the comment. This has been addressed in the IIM term in Reporting ACE. There is no requirement for non-participating balancing authorities to make changes to Reporting ACE calculations.</p>	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	Yes
Document Name	

Comment	
EEI does not oppose the 12 month implementation plan.	
Likes	0
Dislikes	0
Response	
Thank you for the comment and support.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes
Document Name	
Comment	
ITC is in support of the NSRF response	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to NSRF.	
Karrie Schuldt - Dairyland Power Cooperative - 1	
Answer	Yes
Document Name	
Comment	
MRO/NSRF	
Likes	0

Dislikes	0
Response	
Thank you for the comment. Please see response to MRO/ NSRF.	
Casey Perry - PNM Resources - Public Service Company of New Mexico - 1,3 - WECC	
Answer	Yes
Document Name	
Comment	
PNM agrees with the timeframe of 12 months for implementation.	
Likes	0
Dislikes	0
Response	
Thank you for the comment and support.	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	Yes
Document Name	
Comment	
MRO NSRF's "Yes" response is contingent upon the SDT clarifying that the Reporting ACE definition will indicate the I(IM) value is null for non-participating Balancing Authorities and that there is no requirement for non-participating Balancing Authorities to make changes to their Reporting ACE calculation, AGC or EMS merely to report a null value. If this is not the case, a longer implementation plan would be necessary.	
Likes	1
Dislikes	0
Lincoln Electric System, 1, Johnson Josh	
Response	

Thank you for the comment. Please see response to MISO.	
Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF	
Answer	Yes
Document Name	
Comment	
SIGE supports comments submitted by MISO.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to MISO.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	Yes
Document Name	
Comment	
No impact to BHP.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	Yes
Document Name	

Comment	
No impact to BHP.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Micah Runner - Black Hills Corporation - 1	
Answer	Yes
Document Name	
Comment	
No impact to BHP.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Claudine Bates - Black Hills Corporation - 6	
Answer	Yes
Document Name	
Comment	
No impact to BHP.	
Likes	0

Dislikes	0
Response	
Thank you for the comment.	
Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group	
Answer	Yes
Document Name	
Comment	
WEC Energy Group supports MISOs comments.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to MISO.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	Yes
Document Name	
Comment	
FirstEnergy offers no comments toward this question.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	

Answer	Yes
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	Yes
Document Name	
Comment	
Ameren agrees with and supports MISO comments.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. Please see response to MISO.	
Alain Mukama - Hydro One Networks, Inc. - 1	
Answer	Yes
Document Name	
Comment	

No impact to Hydro One.	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the response.	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the response.	

Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the response.	
David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	Yes
Document Name	
Comment	
Likes	0

Dislikes	0
Response	
Thank you for the support.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Kinte Whitehead - Exelon - 3	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Rajesh Geevarghese - Rajesh Geevarghese On Behalf of: Daniel Gacek, Exelon, 1, 3; - Rajesh Geevarghese	
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the support.	
Lindsey Mannion - ReliabilityFirst - 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the support.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - NA - Not Applicable - WECC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for the support.	

Carl Pineault - Hydro-Quebec Production - 5	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	Yes
Document Name	
Comment	
Likes	0

Dislikes	0
Response	
Thank you for the support.	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Harishkumar Subramani Vijay Kumar - Independent Electricity System Operator - 2	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Meaghan Connell - Public Utility District No. 1 of Chelan County - 5	
Answer	Yes
Document Name	

Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	
Anna Lavik - Puget Sound Energy, Inc. - 1	
Answer	Yes
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for the support.	

Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	
Document Name	
Comment	
NA	
Likes 0	
Dislikes 0	
Response	
Thank you for the support.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	
Document Name	
Comment	
WECC leaves the input on implementing the proposed changes to those entities that are required to implement the changes.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	

7. Please provide any additional comments for the SDT to consider, if desired.	
Alain Mukama - Hydro One Networks, Inc. - 1	
Answer	
Document Name	
Comment	
None.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	
Document Name	
Comment	
Ameren agrees with and supports MISO comments.	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. Please see response to MISO.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	

Document Name	
Comment	
<p>See general comment and definition updates below:</p> <p>General Comment: Inclusion of acronyms is inconsistent. Some use a hyphen to separate, others do not.</p> <p>The following changes to certain proposed definitions are recommended.</p> <p>Area Control Error (ACE): The instantaneous difference between an entity’s Actual Net Interchange (NIA) and Scheduled Net Interchange (NIS), incorporating the effects of Frequency Error, Frequency Bias Setting (FBS), of Interchange Meter Error (IME), and of Inadvertent Interchange Management (IIM). For compliance usage, refer to the term Reporting ACE.</p> <p>Automatic Generation Control (AGC): A process designed and used to adjust a Balancing Authority Area’s resource to help maintain the Reporting ACE within the Balancing Authority Area bounds required by applicable NERC Reliability Standards.</p> <p>Balancing Authority Area (BAA): The collection of generation and loads within the metered boundary. The Balancing Authority Area maintains load-resource balance within this area.</p> <p>Control Performance Standard (CPS): Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average. It is used as an indicator of sufficient secondary AGC or DSM to maintain energy balance and Scheduled Frequency.</p> <p>Dynamic Interchange Schedule or Dynamic Schedule: A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting ACE.</p> <p>Frequency Bias Setting (FBS): A negative number, either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority Area’s Reporting ACE to account for the Balancing Authority Area’s Frequency Response to the Interconnection Frequency Error, and discourage additional secondary control response.</p> <p>Overlap Regulation Service: A method of providing Regulation Service in which the Balancing Authority Area providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority Area’s Actual Net Interchange (NIA), Scheduled Net Interchange (NIS), and Frequency Bias Setting (FBS).</p>	

Reporting Area Control Error (Reporting ACE): The scan-rate value of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW, which includes the difference between actual and scheduled interchange adjusted for Frequency Error, known meter error, and inadvertent management.

Time Error (TE): The difference between the Interconnection time measured at the Balancing Authority Area(s) and the time specified by the National Institute of Standards and Technology. Time Error difference is caused by the accumulation of Frequency Error over a given period.

Likes 0

Dislikes 0

Response

Thank you for the comment and suggestion.

Julie Hall - Entergy - 6, Group Name Entergy

Answer

Document Name

Comment

The scope of this project appears to be largely administrative and, while worthwhile to pursue, may not be the most prudent allocation of resources given the more immediate reliability/risk-related efforts such as IBR performance standards. Entergy recommends deferring any further action on this project to a later date.

Likes 0

Dislikes 0

Response

Thank you for your comment.

Nazra Gladu - Manitoba Hydro - 1

Answer

Document Name

Comment	
Pages 22 and 23, Redline - "Contingency Event" should be capitalized within the "Currently Approved Definition" and "SDT Proposed New or Revised REDLINE TO Currently Approved" columns for the NERC Glossary Terms "Operating Reserve - Spinning" and "Operating Reserve - Supplemental".	
Likes	0
Dislikes	0
Response	
Thank you for your comment. "contingency event" is not a NERC Glossary defined term; so it will not be capitalized.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	
Document Name	
Comment	
N/A	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	
Document Name	
Comment	

In the redline for Operating Reserve - Spinning, it appears that the intent was to capitalize Contingency Event, but all that is shown is the deletion of the small c and small e.

In the reline for Ramp Rate or Ramp it appears that the intent was to capitalize Interchange and Schedule. The small i and small s are stricken, but the large I and Large S are not shown as changes.

In the Reportable Balancing Contingency Event definition, Most Severe Single Contingency (MSSC) is included. MSSC is already a defined term, so MSSC would be adequate (without spelling it out).

Likes	0
Dislikes	0

Response

Thank you for comment. Contingency event is not a NERC defined term so it will not be capitalized.
 Thank you for the comment. NERC will review this before the next posting.

Christine Kane - WEC Energy Group, Inc. - 3, Group Name WEC Energy Group

Answer	
Document Name	

Comment

WEC Energy Group supports MISOs additional comments as written.

Likes	0
Dislikes	0

Response

Thank you for the comment. Please see response to MISO.

Diana Torres - Imperial Irrigation District - 6

Answer	
Document Name	

Comment	
None	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	
Document Name	
Comment	
NERC System Operator Certification training and testing will need to incorporate these new definitions in a timely manner. ACE definitions are fundamental to NERC Certification training for new and existing System Operators.	
Likes	0
Dislikes	0
Response	
Thank you, this comment will be passed to the proper NERC groups.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 5, 1, 6; Mathew Weber, Salt River Project, 3, 5, 1, 6; Sarah Blankenship, Salt River Project, 3, 5, 1, 6; Timothy Singh, Salt River Project, 3, 5, 1, 6; - Israel Perez	
Answer	
Document Name	
Comment	

The schedule Interchange is not a defined term in NERC glossary currently which is used in new definition of Reporting ACE. Even though the equation remains the same, the new terminology should be defined.

Likes 0	
Dislikes 0	

Response

Thank you for your comment. This term was intentionally not capitalized to address the general concept of error in scheduled interchange. This general concept of error in scheduled interchange is the difference between Actual Net Interchange and Scheduled Net Interchange.

Vicky Budreau - Santee Cooper - 3, Group Name Santee Cooper

Answer

Document Name

Comment

With the retirement of Disturbance Control Standard (DCS), will the SDT make changes be made to forms that reference DCS? The SDT needs to provide more details about Inadvertent Interchange Management, especially how it effects the Eastern Interconnection.

Likes 0	
Dislikes 0	

Response

Thank you for the comment. This change would be necessary and would occur regarding the DCS form. The drafting team made revisions and additions to the IIM definition since last ballot.

Anna Todd - Southern Indiana Gas and Electric Co. - 1,3,5,6 - RF

Answer

Document Name

Comment

SIGE supports comments submitted by MISO.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to MISO.	
Nicolas Turcotte - Hydro-Quebec TransEnergie - 1	
Answer	
Document Name	
Comment	
Actual Net Interchange: Adjacent Balancing Authority Areas is not a defined term. It should read either Adjacent Balancing Authority areas or adjacent Balancing Authority Areas.	
Control Performance Standard (CPS) : remove “Daniel, please help” from the Notes column.	
Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2 and BAL-004-WECC-3.	
Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2.	
Likes	0
Dislikes	0
Response	
Thank you for the comment. The new Actual Net Interchange definition has the word "adjacent" not capitalized. This comment has been removed.	
The team has updated the column of standards affected by these two definitions.	
The two standards that are currently under revision will not be using the term that is scheduled to be retired. This drafting team will consider the status of the other drafting team before moving to final ballot.	
Carl Pineault - Hydro-Quebec Production - 5	

Answer	
Document Name	
Comment	
<p>Actual Net Interchange: Adjacent Balancing Authority Areas is not a defined term. It should read either Adjacent Balancing Authority areas or adjacent Balancing Authority Areas.</p> <p>Control Performance Standard (CPS) : remove “Daniel, please help” from the Notes column.</p> <p>Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2 and BAL-004-WECC-3.</p> <p>Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2.</p>	
Likes 0	
Dislikes 0	
Response	
<p>Thank you for the comment. The new Actual Net Interchange definition has the word "adjacent" not capitalized. This comment has been removed.</p> <p>The team has updated the column of standards affected by these two definitions. These two standards that are currently under revision will not be using the term that is scheduled to be retired. This drafting team will consider the status of the other drafting team before moving to final ballot.</p>	
Jou Yang - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO NSRF	
Answer	
Document Name	
Comment	
<p>The SAR for this project states that its goal is to: “improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.” MRO NSRF recognizes this as a laudable goal; however, it is not one that will result in improved reliability near-term nor address an immediate need as the Eastern Interconnection is not currently pursuing the implementation of an automated time error correction process. MRO NSRF recognizes that the first ballot for this project</p>	

will be finalized coincident to the submission of these comments and that the ballot results may contemplate an efficient and timely close of this project.

However, and contingent on the ballot outcome, in light of the growing number of standards development projects and the NERC Board of Trustees’ recent solicitation for industry input regarding the **Prioritization of Activities and Effective Engagement** (questions provided below), MRO NSRF recommends that NERC and industry defer action on this project at this time and reallocate resources to standards development projects that have a greater potential to mitigate risks and provide industry with more immediate reliability benefits; e.g. IBR performance standards.

1. What efforts underway at NERC do you believe do not provide value or are driving a disproportionate use of resources relative to the risk being mitigated?

2. What steps can NERC and industry take to achieve a better balance of resources relative to the risks being mitigated?

Comments re: [Reporting ACE Definition Master List Red-line](#)

- To minimize confusion, MRO NSRF recommends the hyphens between the term and the acronym be removed in column, “NERC Glossary Term.” Reason being the hyphen prior to the acronym has the potential of being mistaken as a negative sign. For example, “Actual Net Interchange - (NIA)” should be revised to “Actual Net Interchange (NIA).”
- MRO NSRF notes an error of omission in the red-lined text for **Reportable Balancing Contingency Event (RBCE)** in the column entitled, “SDT Proposed New or Revised REDLINE TO Currently Approved” on page 31. To reflect the proposed changes accurately, the new definition should indicate the following as new text: “...decline in the responsible entity’s Reporting ACE...”

Likes 1	Lincoln Electric System, 1, Johnson Josh
Dislikes 0	
Response	
Please see response to MISO.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	
Document Name	
Comment	

Actual Net Interchange: Adjacent Balancing Authority Areas is not a defined term. It should read either Adjacent Balancing Authority areas or adjacent Balancing Authority Areas.

Control Performance Standard (CPS) : remove “Daniel, please help” from the Notes column.

Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2 and BAL-004-WECC-3.

Net Actual Interchange: standards effected” indicates “none”, however this term is found in BAL-003-2.

Likes	0
-------	---

Dislikes	0
----------	---

Response

Thank you for the comment. Please see response to Hydro Qubec.

David Hartman - David Hartman On Behalf of: Jennifer Bray, Arizona Electric Power Cooperative, Inc., 1; - David Hartman

Answer

Document Name

Comment

The proposed changes are largely clarifications of existing terms with a few new terms added for additional clarification and/or flexibility. We appreciate these types of changes. However, there is one issue with the proposed changes that we believe should be corrected. The notes column for “Control Performance Standard – (CPS)” state “Daniel, please help.” We believe the notes column for this term should be updated to reflect the changes made and why they were made as in the other proposed changes. Obviously, this is a minor oversight; however, we believe that correcting the notes column would provide additional clarification for this term.

Thank you for the opportunity to comment.

Likes	0
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Dislikes	0
----------	---

Response

Thank you for the comment. The notes column has been updated.	
Karrie Schuldt - Dairyland Power Cooperative - 1	
Answer	
Document Name	
Comment	
MRO/NSRF	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment. Please see response to MRO NSRF.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	
Document Name	
Comment	
None	
Likes 0	
Dislikes 0	
Response	
Thank you for the comment.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	
Document Name	

Comment	
ITC is in support of the NSRF response	
Likes	0
Dislikes	0
Response	
Thank you for the comment. Please see response to NSRF.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	
Document Name	
Comment	
None	
Likes	0
Dislikes	0
Response	
Thank you for the comment.	
Constantin Chitescu - Ontario Power Generation Inc. - 5	
Answer	
Document Name	
Comment	
OPG supports NPCC Regional Standards Committee's comments.	
Likes	0

Dislikes	0
Response	
Thank you for the comment. Please see response to NPCC.	
Bobbi Welch - Midcontinent ISO, Inc. - 2	
Answer	
Document Name	
Comment	
<p>MISO supports comments filed by the SRC.</p> <p>The SAR for this project states that its goal is to: “improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.” MISO recognizes this as a laudable goal; however, it is not one that will result in improved reliability near-term, nor will it address an immediate need as the Eastern Interconnection is not currently pursuing the implementation of an automated time error correction process. MISO recognizes that the first ballot for this project will be finalized coincident to the submission of these comments and that the ballot results may indicate that the remainder of this project can be completed in an efficient and timely manner.</p> <p>However, in light of the growing number of standards development projects and the NERC Board of Trustees’ recent solicitation for industry input regarding the Prioritization of Activities and Effective Engagement (questions provided below), if the ballot results indicate that the remainder of the development process for this project is likely to be extensive, then MISO recommends that NERC and industry defer action on this project at this time and reallocate resources to standards development projects that have a greater potential to mitigate risks and provide industry with more immediate reliability benefits; e.g. IBR performance standards.</p> <p>1. What efforts underway at NERC do you believe do not provide value or are driving a disproportionate use of resources relative to the risk being mitigated?</p> <p>2. What steps can NERC and industry take to achieve a better balance of resources relative to the risks being mitigated?</p> <p>Comments re: Reporting ACE Definition Master List Red-line</p>	

To minimize confusion, MISO recommends the hyphens between the term and the acronym be removed in column, “NERC Glossary Term.” This is to avoid the risk of the hyphen prior to the acronym being mistaken for a negative sign. For example, “Actual Net Interchange - (NIA)” should be revised to “Actual Net Interchange (NIA).”

MISO notes an error of omission in the red-lined text for **Reportable Balancing Contingency Event (RBCE)** in the column entitled, “SDT Proposed New or Revised REDLINE TO Currently Approved” on page 31. To reflect the proposed changes accurately, “the responsible entity’s Reporting” should be underlined in red-font as follows: “...decline in the responsible entity’s Reporting ACE...”

Likes 0

Dislikes 0

Response

Thank you for the comment. The standard drafting team will consider this if the remaining level of effort becomes too extensive. These two questions are outside the scope of this drafting team and will be forwarded to NERC Subject Matter Experts.

The drafting team will forward to the Quality Review team for consistency in formatting.

The error has been corrected.

Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee

Answer

Document Name

Comment

The SRC would like to take this opportunity to thank the Standard Drafting Team for all their work and dedication to this Project.

The SAR for this project states that its goal is to: “improve long-term average frequency performance as well as give other Interconnections the ability to pursue automatic correction approaches.” The SRC recognizes this as a laudable goal; however, it is not one that will result in improved reliability near-term nor will it address an immediate need as the Eastern Interconnection is not currently pursuing the implementation of an automated time error correction process. The SRC recognizes that the first ballot for this project will be finalized coincident to the submission of these comments and that the ballot results may indicate that the remainder of this project can be completed in an efficient and timely manner.

However, in light of the growing number of standards development projects and the NERC Board of Trustees’ recent solicitation for industry input regarding the **Prioritization of Activities and Effective Engagement** (questions provided below), if the ballot results indicate that the remainder of the development process for this project is likely to be extensive, then the SRC recommends that NERC and industry defer action on this project at this time and reallocate resources to standards development projects that have a greater potential to mitigate risks and provide industry with more immediate reliability benefits; e.g. IBR performance standards.

1. What efforts underway at NERC do you believe do not provide value or are driving a disproportionate use of resources relative to the risk being mitigated?

2. What steps can NERC and industry take to achieve a better balance of resources relative to the risks being mitigated?

Comments re: [Reporting ACE Definition Master List Red-line](#)

- To minimize confusion, SRC recommends the hyphens between the term and the acronym be removed in column “NERC Glossary Term.” This is to avoid the risk of the hyphen prior to the acronym being mistaken for a negative sign. For example, “Actual Net Interchange - (NIA)” should be revised to “Actual Net Interchange (NIA).”
- The SRC notes an error of omission in the red-lined text for **Reportable Balancing Contingency Event (RBCE)** in the column entitled, “SDT Proposed New or Revised REDLINE TO Currently Approved” on page 31. To reflect the proposed changes accurately, the new definition should indicate the following as new text: “...decline in *the responsible entity’s Reporting ACE...*”

(Please note: PJM is not a party to the requested changes per Question #7)

Likes	0
Dislikes	0
Response	
Please see response to MISO.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	
Document Name	
Comment	

ERCOT joins the joint ISO/RTO Council Standards Review Committee (SRC) comments on this response.	
Likes	0
Dislikes	0
Response	
Thank you for the comment	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	
Document Name	
Comment	
<p>he proposed changes are largely clarifications of existing terms with a few new terms added for additional clarification and/or flexibility. We appreciate these types of changes. However, there is one issue with the proposed changes that we believe should be corrected. The notes column for “Control Performance Standard – (CPS)” state “Daniel, please help.” We believe the notes column for this term should be updated to reflect the changes made and why they were made as in the other proposed changes. Obviously, this is a minor oversight; however, we believe that correcting the notes column would provide additional clarification for this term.</p> <p>Thank you for the opportunity to comment.</p>	
Likes	0
Dislikes	0
Response	
Thank you for the comment. The notes column has been updated.	

End of Report

Reminder

Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Initial Ballots Open through March 16, 2023

[Now Available](#)

The initial ballots for **Project 2022-01 Reporting ACE Definition and Associated Terms** are open through **8 p.m. Eastern, Thursday, March 16, 2023**.

Reminder Regarding Corporate RBB Memberships

Under the NERC Rules of Procedure, each entity and its affiliates is collectively permitted one voting membership per Registered Ballot Body Segment. Each entity that undergoes a change in corporate structure (such as a merger or acquisition) that results in the entity or affiliated entities having more than the one permitted representative in a particular Segment must withdraw the duplicate membership(s) prior to joining new ballot pools or voting on anything as part of an existing ballot pool. Contact ballotadmin@nerc.net to assist with the removal of any duplicate registrations.

Balloting

Members of the ballot pools associated with this project can log in and submit their votes by accessing the Standards Balloting and Commenting System (SBS) [here](#).

- Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.
- Passwords expire every **6 months** and must be reset.
- The SBS **is not** supported for use on mobile devices.
- Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.

Next Steps

The ballot results will be announced and posted on the project page. The drafting team will review all responses received during the comment period and determine the next steps of the project.

For more information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

North American Electric Reliability Corporation
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Atlanta, GA 30326
404-446-2560 | www.nerc.com

UPDATED Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Formal Comment Period Open through March 16, 2023
Ballot Pools Forming through March 1, 2023

[Now Available](#)

A 45-day formal comment period for the **Project 2022-01 Reporting ACE Definition and Associated Terms**, is open through **8 p.m. Eastern, Thursday, March 16, 2023**.

Commenting

Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments. An unofficial Word version of the comment form is posted on the [project page](#).

Ballot Pools

Another ballot/ballot pool has been created for the implementation plan. All ballot pools are open through **8 p.m. Eastern, Wednesday, March 1, 2023**. Registered Ballot Body members can join the ballot pools [here](#). Note that there is a separate ballot for each of the definitions and the implementation plan related to this project – a total of 36. It is necessary to join each ballot pool in order to submit votes on all of the definitions and the implementation plan.

- Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.
- Passwords expire every **6 months** and must be reset.
- The SBS **is not** supported for use on mobile devices.
- Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.

Next Steps

Initial ballots for the definitions will be conducted **March 7-16, 2023**.

For information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

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[NERC Balloting Tool](#)

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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms New - Inadvertent Interchange Management (IIM) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 236**Quorum:** 84.32**Quorum Established Date:** 3/16/2023 2:27:56 PM**Weighted Segment Value:** 73.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	66	1	35	0.761	11	0.239	0	5	15
Segment: 2	8	0.6	3	0.3	3	0.3	0	0	2
Segment: 3	52	1	33	0.733	12	0.267	0	4	3
Segment: 4	9	0.5	3	0.3	2	0.2	0	1	3
Segment: 5	52	1	28	0.8	7	0.2	0	8	9
Segment: 6	43	1	24	0.727	9	0.273	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	131	4.121	44	1.479	0	24	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Negative	Third-Party Comments
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Negative	Third-Party Comments
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Negative	Comments Submitted
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Negative	Comments Submitted
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	WEC Energy Group, Inc.	Christine Kane		Negative	Comments Submitted
5	Lincoln Electric System	Brittany Millard		Negative	Comments Submitted
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
	Southern Company - Southern Company				

1	Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
1	Hydro-Quebec TransEnergie	Nicolas Turcotte		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Negative	Comments Submitted
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		None	N/A
6	Omaha Public Power District	Shonda McCain		Negative	Third-Party Comments
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ken Lanehome		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Negative	Third-Party Comments
3	Manitoba Hydro	Mike Smith		Negative	Comments Submitted
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Negative	Comments Submitted
5	Hydro-Quebec Production	Carl Pineault		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Negative	Comments Submitted
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Negative	Comments Submitted
5	Santee Cooper	Marty Watson		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
6	Santee Cooper	Glenda Horne		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Negative	Comments Submitted
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A

6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Negative	Comments Submitted
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Abstain	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Negative	Comments Submitted
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Negative	Third-Party Comments
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Negative	Comments Submitted
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Negative	Third-Party Comments
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Negative	Comments Submitted
3	Omaha Public Power District	David Heins		Negative	Third-Party Comments
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Negative	Third-Party Comments
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A

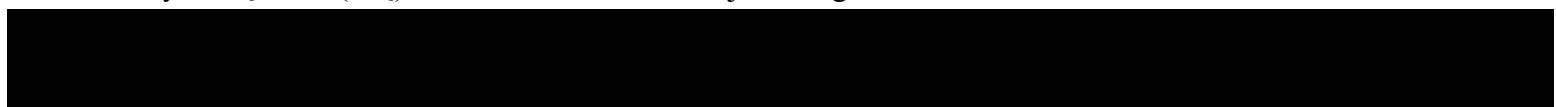
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Negative	Comments Submitted
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Negative	Comments Submitted
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Negative	Third-Party Comments
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Negative	Third-Party Comments
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A

3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Negative	Third-Party Comments
3	Great River Energy	Michael Brytowski		Negative	Third-Party Comments
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Negative	Third-Party Comments
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Abstain	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Negative	Comments Submitted
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Negative	Third-Party Comments
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		None	N/A

3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Negative	Third-Party Comments
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Negative	Third-Party Comments
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Puget Sound Energy, Inc.	Anna Lavik		Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Negative	Third-Party Comments
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Negative	Comments Submitted
3	Lincoln Electric System	Sam Christensen		Negative	Comments

					Submitted
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Negative	Third-Party Comments
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Negative	Comments Submitted
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Negative	Third-Party Comments
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Negative	Third-Party Comments
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Negative	Third-Party Comments
6	Southern Indiana Gas and Electric Co.	Kati Barr		Negative	Comments Submitted
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan	Diane E Landry		Affirmative	N/A

	County			
5	Pattern Operators LP	George E Brown	Negative	Third-Party Comments
2	New York Independent System Operator	Gregory Campoli	None	N/A
5	New York Power Authority	Zahid Qayyum	Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston	Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason	Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino	Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Actual Net Interchange (NIA) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 236**Quorum:** 84.32**Quorum Established Date:** 3/16/2023 2:22:06 PM**Weighted Segment Value:** 97.37

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	0.978	1	0.022	0	4	15
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.957	2	0.043	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	36	0.947	2	0.053	0	6	9
Segment: 6	43	1	33	0.971	1	0.029	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	174	5.453	6	0.147	0	19	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	Comments Submitted
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	Comments Submitted
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Negative	Comments Submitted
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	Comments Submitted
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative N/A
5	Bonneville Power Administration	Christopher Siewert	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None N/A
5	Constellation	Alison MacKellar		Abstain N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative N/A
4	Austin Energy	Tony Hua		None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
3	Duke Energy	Lee Schuster		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A

3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Laura Lee		Affirmative N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain N/A
6	Imperial Irrigation District	Diana Torres		Affirmative N/A
5	National Grid USA	Robin Berry		Affirmative N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative N/A
1	Avista - Avista Corporation	Mike Magruder		None N/A
10	Midwest Reliability Organization	William Steiner		Affirmative N/A
5	NextEra Energy	Summer Esquerre		Abstain N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		None N/A
3	Black Hills Corporation	Josh Combs		Affirmative N/A
6	Black Hills Corporation	Claudine Bates		Affirmative N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative N/A
5	Pacific Gas and Electric Company	Frank Lee		None N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative N/A
3	Exelon	Kinte Whitehead		Affirmative N/A
1	American Transmission Company, LLC	Amy Wilke		None N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None N/A
6	Great River Energy	Donna Stephenson		Affirmative N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative N/A
1	KAMO Electric Cooperative	Micah Breedlove		None N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Negative	Third-Party Comments
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A

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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Area Control Error (ACE) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:28:17 PM**Weighted Segment Value:** 70.32

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	33	0.717	13	0.283	0	5	14
Segment: 2	8	0.6	3	0.3	3	0.3	0	0	2
Segment: 3	52	1	34	0.739	12	0.261	0	3	3
Segment: 4	9	0.5	3	0.3	2	0.2	0	1	3
Segment: 5	53	1	25	0.676	12	0.324	0	7	9
Segment: 6	43	1	24	0.706	10	0.294	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	127	3.938	52	1.662	0	21	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Negative	Third-Party Comments
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Negative	Third-Party Comments
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Negative	Comments Submitted
5	Lincoln Electric System	Brittany Millard		Negative	Comments Submitted
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A

6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
1	Hydro-Quebec TransEnergie	Nicolas Turcotte		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Negative	Comments Submitted
6	WEC Energy Group, Inc.	David Boeshaar		Negative	Comments Submitted
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		None	N/A
6	Omaha Public Power District	Shonda McCain		Negative	Third-Party Comments
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ken Lanehome		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Negative	Third-Party Comments
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Negative	Comments Submitted
5	Hydro-Quebec Production	Carl Pineault		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Negative	Comments Submitted
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Negative	Comments Submitted
5	Santee Cooper	Marty Watson		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
6	Santee Cooper	Glenda Horne		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Negative	Comments Submitted
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A

4	WEC Energy Group, Inc.	Matthew Beilfuss		Negative	Comments Submitted
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Abstain	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Negative	Comments Submitted
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Negative	Third-Party Comments
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Negative	Comments Submitted
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Negative	Third-Party Comments
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Negative	Comments Submitted
3	Omaha Public Power District	David Heins		Negative	Third-Party Comments
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Negative	Third-Party Comments
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A

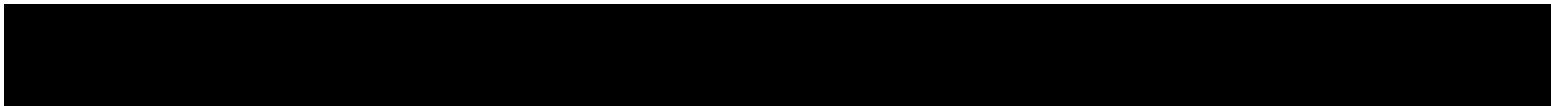
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Negative	Comments Submitted
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Negative	Comments Submitted
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Negative	Comments Submitted
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Negative	Third-Party Comments
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Negative	Third-Party Comments

4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Negative	Third-Party Comments
1	Great River Energy	Gordon Pietsch		Negative	Third-Party Comments
3	Great River Energy	Michael Brytowski		Negative	Third-Party Comments
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Negative	Third-Party Comments
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Negative	Third-Party Comments
6	Powerex Corporation	Raj Hundal		Negative	Third-Party Comments
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Negative	Comments Submitted
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A

5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Negative	Third-Party Comments
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Negative	Third-Party Comments
5	Muscatine Power and Water	Neal Nelson		Negative	Third-Party Comments
6	Muscatine Power and Water	Nicholas Burns		Negative	Third-Party Comments
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Negative	Third-Party Comments
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A

3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Negative	Comments Submitted
3	Lincoln Electric System	Sam Christensen		Negative	Comments Submitted
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Negative	Third-Party Comments
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Negative	Comments Submitted
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Negative	Third-Party Comments
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Negative	Third-Party Comments
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Negative	Third-Party Comments
6	Southern Indiana Gas and Electric Co.	Kati Barr		Negative	Comments Submitted

3	Pacific Gas and Electric Company	Sandra Ellis	Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann	Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers	Negative	Comments Submitted
1	Public Utility District No. 1 of Chelan County	Diane E Landry	Affirmative	N/A
5	Pattern Operators LP	George E Brown	Negative	Third-Party Comments
2	New York Independent System Operator	Gregory Campoli	None	N/A
5	New York Power Authority	Zahid Qayyum	Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston	Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson	Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino	Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Automatic Time Error Correction (ATEC) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:29:15 PM**Weighted Segment Value:** 97.55

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	36	0.973	1	0.027	0	14	14
Segment: 2	8	0.4	4	0.4	0	0	0	2	2
Segment: 3	52	1	37	0.974	1	0.026	0	11	3
Segment: 4	9	0.3	3	0.3	0	0	0	3	3
Segment: 5	53	1	27	0.964	1	0.036	0	16	9
Segment: 6	43	1	25	0.962	1	0.038	0	12	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.2	137	5.072	4	0.128	0	59	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Abstain	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

5	Bonneville Power Administration	Christopher Siewert	Affirmative	N/A	
10	ReliabilityFirst	Lindsey Mannion	Affirmative	N/A	
1	BC Hydro and Power Authority	Adrian Andreoiu	Negative	Comments Submitted	
6	WEC Energy Group, Inc.	David Boeshaar	Abstain	N/A	
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative	N/A	
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative	N/A	
6	Western Area Power Administration	Jennifer Neville	None	N/A	
6	Omaha Public Power District	Shonda McCain	Affirmative	N/A	
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain	N/A	
2	California ISO	Darcy O'Connell	Affirmative	N/A	
3	Bonneville Power Administration	Ken Lanehome	Affirmative	N/A	
1	Omaha Public Power District	Doug Peterchuck	Affirmative	N/A	
3	Manitoba Hydro	Mike Smith	Affirmative	N/A	
6	Bonneville Power Administration	Tanner Brier	Affirmative	N/A	
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative	N/A	
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative	N/A	
3	Ameren - Ameren Services	David Jendras Sr	Abstain	N/A	
5	Hydro-Quebec Production	Carl Pineault	Affirmative	N/A	
6	Ameren - Ameren Services	Robert Quinlivan	Abstain	N/A	
3	Santee Cooper	Vicky Budreau	Abstain	N/A	
5	Ameren - Ameren Missouri	Sam Dwyer	Abstain	N/A	
5	Santee Cooper	Marty Watson	Abstain	N/A	
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative	N/A	
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative	N/A	
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative	N/A	
1	Santee Cooper	Chris Wagner	Abstain	N/A	
6	Santee Cooper	Glenda Horne	Abstain	N/A	
5	Dairyland Power Cooperative	Tommy Drea	Abstain	N/A	
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative	N/A	
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative	N/A	
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain	N/A	
4	WEC Energy Group, Inc.	Matthew Beilfuss	Abstain	N/A	
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative	N/A	
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative	N/A	
3	Avista - Avista Corporation	Robert Follini	Affirmative	N/A	
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain	N/A	
1	Xcel Energy, Inc.	Eric Barry	Affirmative	N/A	
6	Los Angeles Department of Water and Power	Anton Vu	Abstain	N/A	

1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Abstain	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Abstain	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Abstain	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Abstain	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Abstain	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Negative	Comments Submitted

1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Abstain	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Abstain	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Abstain	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Abstain	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Abstain	N/A
1	Great River Energy	Gordon Pietsch		Abstain	N/A
3	Great River Energy	Michael Brytowski		Abstain	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Abstain	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Abstain	N/A
6	Powerex Corporation	Raj Hundal		Negative	Third-Party Comments
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and	Silvia Mitchell		Abstain	N/A

Light Co.

1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Abstain	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Abstain	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Abstain	N/A
6	Muscatine Power and Water	Nicholas Burns		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Abstain	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A

3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative N/A
1	KAMO Electric Cooperative	Micah Breedlove		None N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative N/A
5	Colorado Springs Utilities	Jeffrey Icke		None N/A
1	M and A Electric Power Cooperative	William Price		Affirmative N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None N/A
1	Eversource Energy	Joshua London		None N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative N/A
3	Entergy	James Keele		Affirmative N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative N/A
3	Lincoln Electric System	Sam Christensen		Affirmative N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative N/A
1	Austin Energy	Thomas Standifur		Abstain N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative N/A
1	Black Hills Corporation	Micah Runner		Affirmative N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative N/A
6	New York Power Authority	Shelly Dineen		Affirmative N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative N/A
1	Lincoln Electric System	Josh Johnson		Affirmative N/A
3	National Grid USA	Brian Shanahan		Affirmative N/A
1	Entergy	Brian Lindsey		Affirmative N/A
3	New York Power Authority	David Rivera		Affirmative N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative N/A

5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Abstain	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Authority Area (BAA) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 237**Quorum:** 84.39**Quorum Established Date:** 3/16/2023 2:39:36 PM**Weighted Segment Value:** 97.94

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	66	1	47	0.979	1	0.021	0	3	15
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.957	2	0.043	0	2	3
Segment: 4	9	0.6	6	0.6	0	0	0	0	3
Segment: 5	53	1	38	0.974	1	0.026	0	5	9
Segment: 6	43	1	34	0.971	1	0.029	0	3	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	237	5.7	181	5.582	5	0.118	0	14	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Quebec TransEnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Affirmative N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

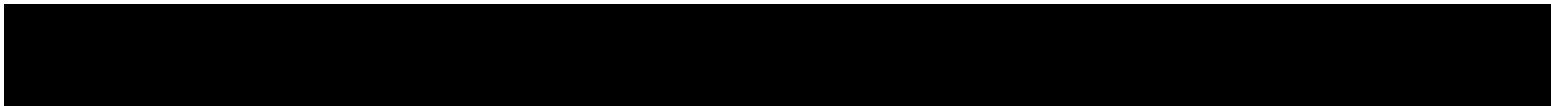
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Affirmative	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A

1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A

1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A

1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		None	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Contingency Event (BCE) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:29:36 PM**Weighted Segment Value:** 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	46	1	0	0	0	5	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	37	1	0	0	0	7	9
Segment: 6	43	1	33	1	0	0	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	176	5.578	1	0.022	0	23	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Quebec TransEnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

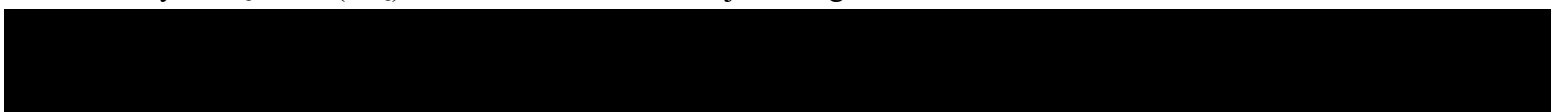
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None N/A
5	Constellation	Alison MacKellar		Abstain N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative N/A
4	Austin Energy	Tony Hua		None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
3	Duke Energy	Lee Schuster		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A

3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Laura Lee		Affirmative N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain N/A
6	Imperial Irrigation District	Diana Torres		Affirmative N/A
5	National Grid USA	Robin Berry		Affirmative N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative N/A
1	Avista - Avista Corporation	Mike Magruder		None N/A
10	Midwest Reliability Organization	William Steiner		Affirmative N/A
5	NextEra Energy	Summer Esquerre		Abstain N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative N/A
3	Black Hills Corporation	Josh Combs		Affirmative N/A
6	Black Hills Corporation	Claudine Bates		Affirmative N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative N/A
5	Pacific Gas and Electric Company	Frank Lee		None N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative N/A
3	Exelon	Kinte Whitehead		Affirmative N/A
1	American Transmission Company, LLC	Amy Wilke		None N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None N/A
6	Great River Energy	Donna Stephenson		Affirmative N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative N/A
1	KAMO Electric Cooperative	Micah Breedlove		None N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Control Performance Standard (CPS) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 200

Total Ballot Pool: 236

Quorum: 84.75

Quorum Established Date: 3/16/2023 2:34:39 PM

Weighted Segment Value: 96.32

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	44	0.957	2	0.043	0	5	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	35	0.946	2	0.054	0	7	9
Segment: 6	43	1	31	0.939	2	0.061	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.4	4	0.4	0	0	0	2	0
Totals:	236	5.5	168	5.297	8	0.203	0	24	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Negative	Comments Submitted
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville	None	N/A
6	Omaha Public Power District	Shonda McCain	Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain	N/A
2	California ISO	Darcy O'Connell	Affirmative	N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative	N/A
3	Manitoba Hydro	Mike Smith	Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative	N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative	N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative	N/A
3	Santee Cooper	Vicky Budreau	Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative	N/A
5	Santee Cooper	Marty Watson	Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative	N/A
1	Santee Cooper	Chris Wagner	Affirmative	N/A
6	Santee Cooper	Glenda Horne	Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative	N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain	N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative	N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain	N/A

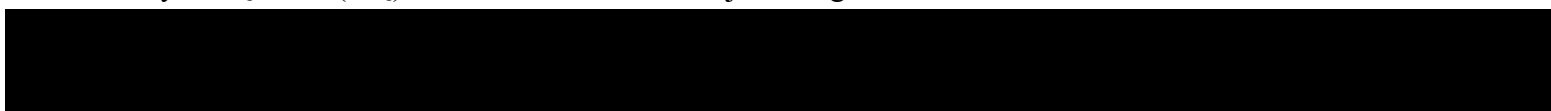
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Negative	Comments Submitted

1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Abstain	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Negative	Third-Party Comments

1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A

6	Great River Energy	Donna Stephenson		Affirmative N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative N/A
1	KAMO Electric Cooperative	Micah Breedlove		None N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative N/A
5	Colorado Springs Utilities	Jeffrey Icke		None N/A
1	M and A Electric Power Cooperative	William Price		Affirmative N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None N/A
1	Eversource Energy	Joshua London		None N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative N/A
3	Entergy	James Keele		Affirmative N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative N/A
3	Lincoln Electric System	Sam Christensen		Affirmative N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative N/A
1	Austin Energy	Thomas Standifur		Abstain N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative N/A
1	Black Hills Corporation	Micah Runner		Affirmative N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative N/A
6	New York Power Authority	Shelly Dineen		Affirmative N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative N/A
1	Lincoln Electric System	Josh Johnson		Affirmative N/A
3	National Grid USA	Brian Shanahan		Affirmative N/A
1	Entergy	Brian Lindsey		Affirmative N/A
3	New York Power Authority	David Rivera		Affirmative N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain N/A

3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Disturbance IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 237**Quorum:** 84.39**Quorum Established Date:** 3/16/2023 2:40:59 PM**Weighted Segment Value:** 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	66	1	47	1	0	0	0	4	15
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	38	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	237	5.6	180	5.578	1	0.022	0	19	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

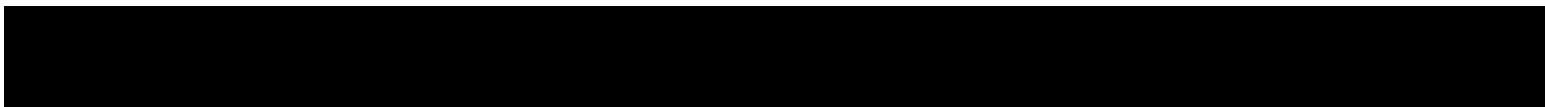
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A

3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		None	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Dynamic Interchange Schedule or Dynamic Schedule IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:36:06 PM**Weighted Segment Value:** 97.75

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	0.978	1	0.022	0	5	14
Segment: 2	8	0.5	5	0.5	0	0	0	1	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	36	0.973	1	0.027	0	7	9
Segment: 6	43	1	32	0.97	1	0.03	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.5	171	5.376	5	0.124	0	24	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

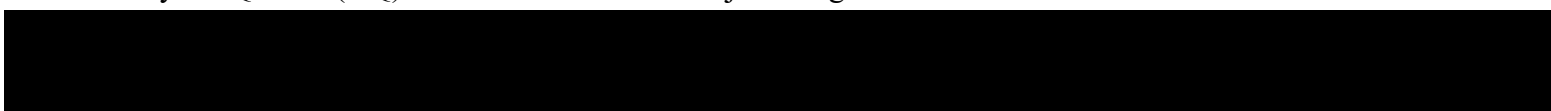
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A

1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A

1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A

1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Results

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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Bias Setting (FBS) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 200

Total Ballot Pool: 236

Quorum: 84.75

Quorum Established Date: 3/16/2023 2:36:27 PM

Weighted Segment Value: 97.79

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	0.978	1	0.022	0	5	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	36	0.973	1	0.027	0	7	9
Segment: 6	43	1	32	0.97	1	0.03	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	172	5.476	5	0.124	0	23	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Quebec TransEnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

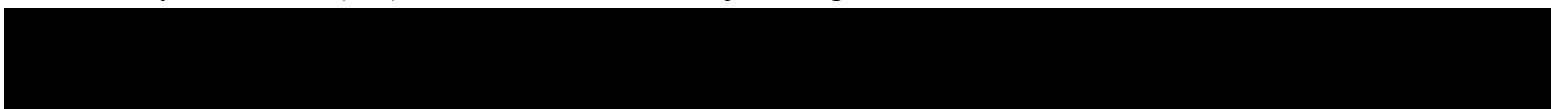
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A

1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A

1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A

1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Error IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:36:41 PM**Weighted Segment Value:** 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	38	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	180	5.578	1	0.022	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Qu?bec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None N/A
5	Constellation	Alison MacKellar		Abstain N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative N/A
4	Austin Energy	Tony Hua		None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy	Lee Schuster		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A

1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A

6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Implemented Interchange IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 200

Total Ballot Pool: 236

Quorum: 84.75

Quorum Established Date: 3/16/2023 2:36:53 PM

Weighted Segment Value: 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	38	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	180	5.578	1	0.022	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A

1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A

6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Inadvertent Interchange IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:37:05 PM**Weighted Segment Value:** 99.2

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	44	0.978	1	0.022	0	6	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.977	1	0.023	0	5	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	36	1	0	0	0	8	9
Segment: 6	43	1	32	1	0	0	0	6	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	171	5.555	2	0.045	0	27	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Abstain N/A
5	Santee Cooper	Marty Watson	Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Abstain N/A
6	Santee Cooper	Glenda Horne	Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

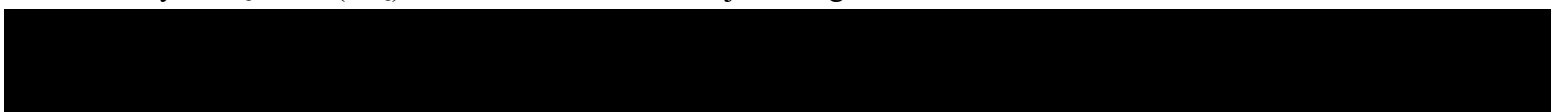
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None N/A
5	Constellation	Alison MacKellar		Abstain N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative N/A
4	Austin Energy	Tony Hua		None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy	Lee Schuster		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Negative Third-Party Comments
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A

3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Results

Comment: [View Comment Results](#)

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Interchange Meter Error -(IME) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 200

Total Ballot Pool: 236

Quorum: 84.75

Quorum Established Date: 3/16/2023 2:37:18 PM

Weighted Segment Value: 98.24

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	46	0.979	1	0.021	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	37	0.974	1	0.026	0	6	9
Segment: 6	43	1	33	0.971	1	0.029	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	177	5.501	4	0.099	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Negative	Comments Submitted
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville	None	N/A
6	Omaha Public Power District	Shonda McCain	Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain	N/A
2	California ISO	Darcy O'Connell	Affirmative	N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative	N/A
3	Manitoba Hydro	Mike Smith	Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative	N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative	N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative	N/A
3	Santee Cooper	Vicky Budreau	Affirmative	N/A
5	Santee Cooper	Marty Watson	Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative	N/A
1	Santee Cooper	Chris Wagner	Affirmative	N/A
6	Santee Cooper	Glenda Horne	Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain	N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain	N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative	N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain	N/A

1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Negative	Comments Submitted

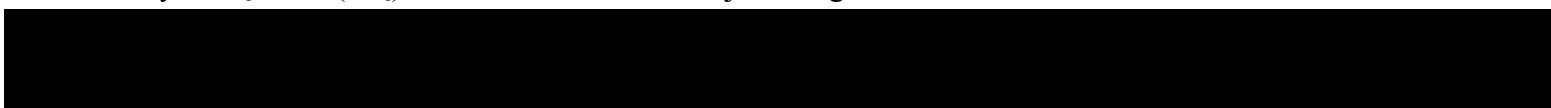
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Negative	Third-Party Comments
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and	Silvia Mitchell		Abstain	N/A

Light Co.

1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A

3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative N/A
1	KAMO Electric Cooperative	Micah Breedlove		None N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative N/A
5	Colorado Springs Utilities	Jeffrey Icke		None N/A
1	M and A Electric Power Cooperative	William Price		Affirmative N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None N/A
1	Eversource Energy	Joshua London		None N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative N/A
3	Entergy	James Keele		Affirmative N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative N/A
3	Lincoln Electric System	Sam Christensen		Affirmative N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative N/A
1	Austin Energy	Thomas Standifur		Abstain N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative N/A
1	Black Hills Corporation	Micah Runner		Affirmative N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative N/A
6	New York Power Authority	Shelly Dineen		Affirmative N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative N/A
1	Lincoln Electric System	Josh Johnson		Affirmative N/A
3	National Grid USA	Brian Shanahan		Affirmative N/A
1	Entergy	Brian Lindsey		Affirmative N/A
3	New York Power Authority	David Rivera		Affirmative N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative N/A

5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Results

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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Spinning IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 200

Total Ballot Pool: 236

Quorum: 84.75

Quorum Established Date: 3/16/2023 2:37:42 PM

Weighted Segment Value: 99.51

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	39	1	0	0	0	12	14
Segment: 2	8	0.4	4	0.4	0	0	0	2	2
Segment: 3	52	1	38	0.974	1	0.026	0	10	3
Segment: 4	9	0.3	3	0.3	0	0	0	3	3
Segment: 5	53	1	29	1	0	0	0	15	9
Segment: 6	43	1	27	1	0	0	0	11	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.2	145	5.174	1	0.026	0	54	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Abstain	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Quebec TransEnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Abstain N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Abstain N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Abstain N/A
3	Santee Cooper	Vicky Budreau	Abstain N/A
5	Santee Cooper	Marty Watson	Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Abstain N/A
6	Santee Cooper	Glenda Horne	Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea	Abstain N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Abstain N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Abstain	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Abstain	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Abstain	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Abstain	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Abstain	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Abstain	N/A
1	Great River Energy	Gordon Pietsch		Abstain	N/A
3	Great River Energy	Michael Brytowski		Abstain	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Abstain	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Abstain	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Abstain	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Abstain	N/A
6	Muscatine Power and Water	Nicholas Burns		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Abstain	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A

5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A

6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Abstain	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Supplemental IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:38:13 PM**Weighted Segment Value:** 99.52

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	38	1	0	0	0	13	14
Segment: 2	8	0.4	4	0.4	0	0	0	2	2
Segment: 3	52	1	39	0.975	1	0.025	0	9	3
Segment: 4	9	0.3	3	0.3	0	0	0	3	3
Segment: 5	53	1	30	1	0	0	0	14	9
Segment: 6	43	1	28	1	0	0	0	10	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.2	147	5.175	1	0.025	0	52	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Abstain	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Quebec TransEnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Abstain N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Abstain N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Abstain N/A
3	Santee Cooper	Vicky Budreau	Abstain N/A
5	Santee Cooper	Marty Watson	Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Abstain N/A
6	Santee Cooper	Glenda Horne	Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea	Abstain N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Abstain N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Abstain	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Abstain	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Abstain	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Abstain	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Abstain	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Abstain	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Abstain	N/A
1	Great River Energy	Gordon Pietsch		Abstain	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Abstain	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Abstain	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A

1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Abstain	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Abstain	N/A
6	Muscatine Power and Water	Nicholas Burns		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Overlap Regulation Service IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 200**Total Ballot Pool:** 236**Quorum:** 84.75**Quorum Established Date:** 3/16/2023 2:38:55 PM**Weighted Segment Value:** 97.75

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	0.978	1	0.022	0	5	14
Segment: 2	8	0.5	5	0.5	0	0	0	1	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	53	1	36	0.973	1	0.027	0	7	9
Segment: 6	43	1	32	0.97	1	0.03	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.5	171	5.376	5	0.124	0	24	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Quebec TransEnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

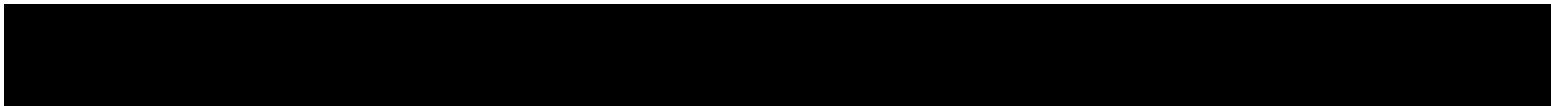
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A

3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A

3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A

1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Pseudo-Tie IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 235**Quorum:** 84.68**Quorum Established Date:** 3/16/2023 2:39:06 PM**Weighted Segment Value:** 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	179	5.578	1	0.022	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

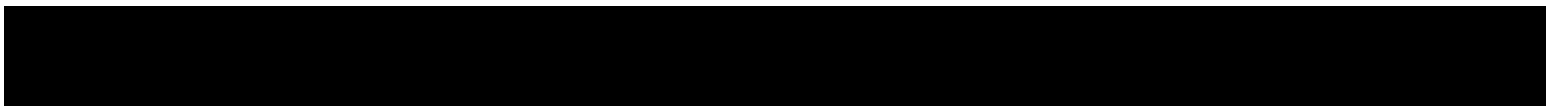
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None N/A
5	Constellation	Alison MacKellar		Abstain N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative N/A
4	Austin Energy	Tony Hua		None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy	Lee Schuster		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A

1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Affirmative N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative N/A
5	Great River Energy	Jacalynn Bentz		Affirmative N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative N/A
5	Pattern Operators LP	George E Brown		Affirmative N/A
2	New York Independent System Operator	Gregory Campoli		None N/A
5	New York Power Authority	Zahid Qayyum		Affirmative N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Ramp Rate or Ramp IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 235**Quorum:** 84.68**Quorum Established Date:** 3/16/2023 2:39:32 PM**Weighted Segment Value:** 99.61

Actions

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Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	179	5.578	1	0.022	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

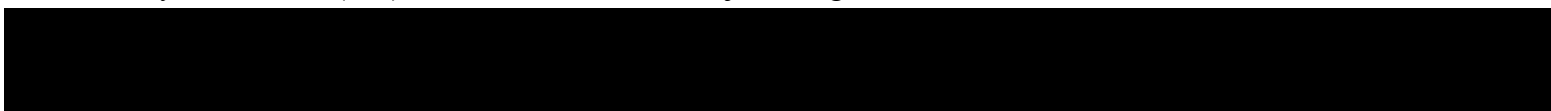
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None N/A
5	Constellation	Alison MacKellar		Abstain N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative N/A
4	Austin Energy	Tony Hua		None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy	Lee Schuster		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Laura Lee		Affirmative N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A

5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A

6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Regulation Service IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 235**Quorum:** 84.68**Quorum Established Date:** 3/16/2023 2:39:46 PM**Weighted Segment Value:** 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	46	1	0	0	0	5	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	36	1	0	0	0	7	9
Segment: 6	43	1	33	1	0	0	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	175	5.578	1	0.022	0	23	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

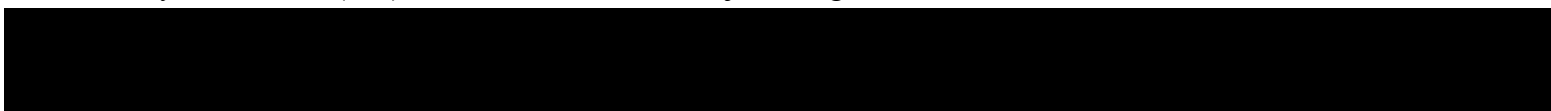
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A

5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A

6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Reportable Balancing Contingency Event (RBCE) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 199

Total Ballot Pool: 235

Quorum: 84.68

Quorum Established Date: 3/16/2023 2:39:57 PM

Weighted Segment Value: 97.82

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	1	0	0	0	6	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	35	1	0	0	0	8	9
Segment: 6	43	1	33	1	0	0	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	4	0.4	1	0.1	0	1	0
Totals:	235	5.6	172	5.478	2	0.122	0	25	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Abstain N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Abstain N/A

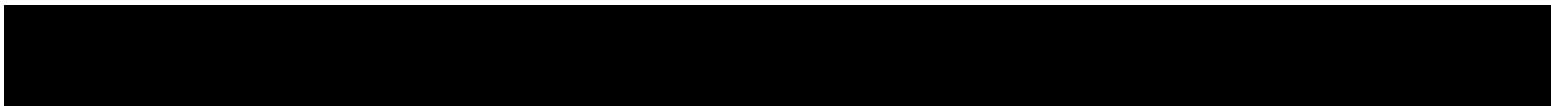
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A

5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A

6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Negative	Comments Submitted
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Reporting Area Control Error (Reporting ACE) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 235**Quorum:** 84.68**Quorum Established Date:** 3/16/2023 2:40:19 PM**Weighted Segment Value:** 69.73

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	32	0.711	13	0.289	0	6	14
Segment: 2	8	0.6	3	0.3	3	0.3	0	0	2
Segment: 3	52	1	32	0.711	13	0.289	0	4	3
Segment: 4	9	0.5	3	0.3	2	0.2	0	1	3
Segment: 5	52	1	24	0.686	11	0.314	0	8	9
Segment: 6	43	1	23	0.697	10	0.303	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	122	3.905	52	1.695	0	25	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Negative	Third-Party Comments
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Negative	Third-Party Comments
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Negative	Comments Submitted
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Negative	Comments Submitted
5	Lincoln Electric System	Brittany Millard		Negative	Comments Submitted
3	WEC Energy Group, Inc.	Christine Kane		Negative	Comments Submitted
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	Comments Submitted
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	Comments Submitted
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Negative	Comments Submitted
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	Comments Submitted
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A

1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Negative	Comments Submitted
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		None	N/A
6	Omaha Public Power District	Shonda McCain		Negative	Third-Party Comments
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ken Lanehome		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Negative	Third-Party Comments
3	Manitoba Hydro	Mike Smith		Negative	Comments Submitted
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Negative	Comments Submitted
5	Hydro-Qu?bec Production	Carl Pineault		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Negative	Comments Submitted
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Santee Cooper	Marty Watson		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Negative	Comments Submitted
6	Santee Cooper	Glenda Horne		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Negative	Comments Submitted
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Negative	Comments

				Submitted
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain	N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain	N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative	N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Abstain	N/A
5	Los Angeles Department of Water and Power	Glenn Barry	Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert	Negative	Third-Party Comments Submitted
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward	Negative	Comments Submitted
5	Greybeard Compliance Services, LLC	Mike Gabriel	Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino	Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None N/A
3	Xcel Energy, Inc.	Nicholas Friebel	Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz	Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative N/A
2	Midcontinent ISO, Inc.	Bobbi Welch	Negative	Comments Submitted
1	Muscatine Power and Water	Andrew Kurriger	Negative	Third-Party Comments
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar	Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer	None	N/A
1	Platte River Power Authority	Marissa Archie	Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder	Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt	Negative	Comments Submitted
3	Omaha Public Power District	David Heins	Negative	Third-Party Comments
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle	Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar	Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci	Negative	Third-Party Comments
1	Dominion - Dominion Virginia Power	Candace Marshall	Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative N/A

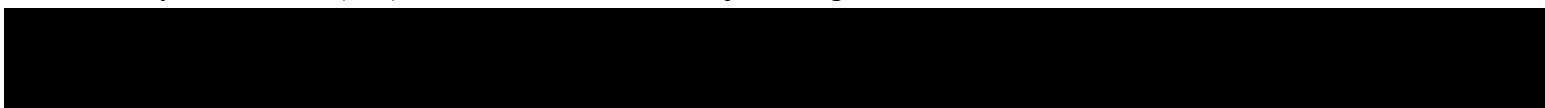
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Negative	Comments Submitted
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Negative	Third-Party Comments
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Negative	Comments Submitted
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Negative	Third-Party Comments
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
4	Public Utility District No. 2 of Grant	Karla Weaver		Affirmative	N/A

	County, Washington				
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Negative	Third-Party Comments
1	Great River Energy	Gordon Pietsch		Negative	Third-Party Comments
3	Great River Energy	Michael Brytowski		Negative	Third-Party Comments
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Negative	Third-Party Comments
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Negative	Third-Party Comments
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Negative	Comments Submitted
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
	NiSource - Northern Indiana Public				Third-Party

5	Service Co.	Kathryn Tackett		Negative	Comments
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Negative	Third-Party Comments
5	Muscatine Power and Water	Neal Nelson		Negative	Third-Party Comments
6	Muscatine Power and Water	Nicholas Burns		Negative	Third-Party Comments
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Negative	Third-Party Comments
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A

3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Negative	Comments Submitted
3	Lincoln Electric System	Sam Christensen		Negative	Comments Submitted
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Negative	Third-Party Comments
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Negative	Third-Party Comments
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Negative	Third-Party Comments
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power	Skyler Wiegmann		Affirmative	N/A

	Cooperative			
5	Southern Indiana Gas and Electric Co.	Larry Rogers	Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry	Affirmative	N/A
5	Pattern Operators LP	George E Brown	Negative	Third-Party Comments
2	New York Independent System Operator	Gregory Campoli	None	N/A
5	New York Power Authority	Zahid Qayyum	Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston	Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason	Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino	Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Comment: [View Comment Results](#)

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group (RSG) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 199

Total Ballot Pool: 235

Quorum: 84.68

Quorum Established Date: 3/16/2023 2:40:31 PM

Weighted Segment Value: 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	179	5.578	1	0.022	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

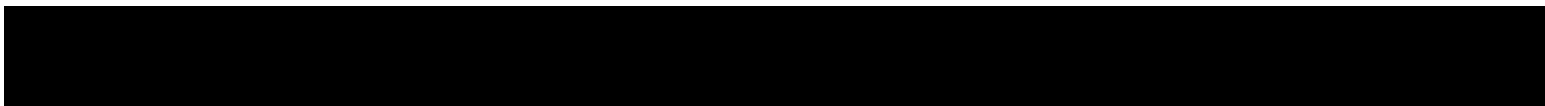
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A

1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Affirmative N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative N/A
5	Great River Energy	Jacalynn Bentz		Affirmative N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative N/A
5	Pattern Operators LP	George E Brown		Affirmative N/A
2	New York Independent System Operator	Gregory Campoli		None N/A
5	New York Power Authority	Zahid Qayyum		Affirmative N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None N/A



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Ballot Results

Comment: [View Comment Results](#)

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group Reporting ACE IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 199

Total Ballot Pool: 236

Quorum: 84.32

Quorum Established Date: 3/16/2023 2:44:28 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	66	1	45	1	0	0	0	6	15
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	35	1	0	0	0	8	9
Segment: 6	43	1	33	1	0	0	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	173	5.578	1	0.022	0	25	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Quebec TransEnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Abstain N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Abstain N/A

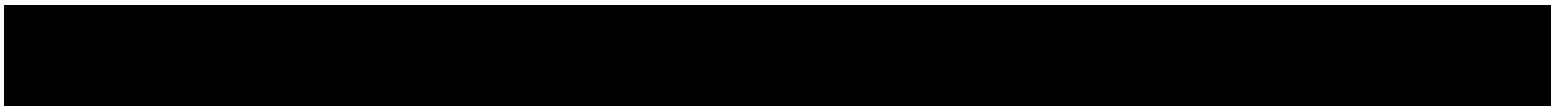
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

3	Platte River Power Authority	Richard Kiess		Affirmative N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None N/A
5	Constellation	Alison MacKellar		Abstain N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative N/A
4	Austin Energy	Tony Hua		None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy	Lee Schuster		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Laura Lee		Affirmative N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A

5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A

6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		None	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Frequency IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 235**Quorum:** 84.68**Quorum Established Date:** 3/16/2023 2:41:19 PM**Weighted Segment Value:** 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	179	5.578	1	0.022	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

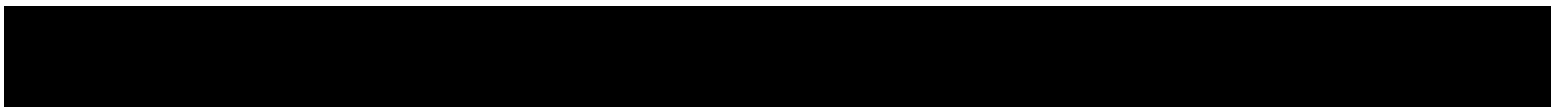
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shippis		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A

6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A

1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A

5	Public Utility District No. 1 of Chelan County	Meaghan Connell	Affirmative N/A	
6	Public Utility District No. 1 of Chelan County	Anne Kronshage	Affirmative N/A	
3	Public Utility District No. 1 of Chelan County	Joyce Gundry	Affirmative N/A	
10	Texas Reliability Entity, Inc.	Rachel Coyne	Affirmative N/A	
5	Great River Energy	Jacalynn Bentz	Affirmative N/A	
6	Southern Indiana Gas and Electric Co.	Kati Barr	Affirmative N/A	
3	Pacific Gas and Electric Company	Sandra Ellis	Affirmative N/A	
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann	Affirmative N/A	
5	Southern Indiana Gas and Electric Co.	Larry Rogers	Affirmative N/A	
1	Public Utility District No. 1 of Chelan County	Diane E Landry	Affirmative N/A	
5	Pattern Operators LP	George E Brown	Affirmative N/A	
2	New York Independent System Operator	Gregory Campoli	None	N/A
5	New York Power Authority	Zahid Qayyum	Affirmative N/A	
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston	Affirmative N/A	
6	Portland General Electric Co.	Daniel Mason	Affirmative N/A	
3	Edison International - Southern California Edison Company	Romel Aquino	Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Net Interchange (NIS) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 199

Total Ballot Pool: 235

Quorum: 84.68

Quorum Established Date: 3/16/2023 2:41:59 PM

Weighted Segment Value: 97.84

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	46	0.979	1	0.021	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.957	2	0.043	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	36	0.973	1	0.027	0	6	9
Segment: 6	43	1	33	0.971	1	0.029	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	175	5.479	5	0.121	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	Comments Submitted
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	Comments Submitted
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Negative	Comments Submitted
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	Comments Submitted
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A

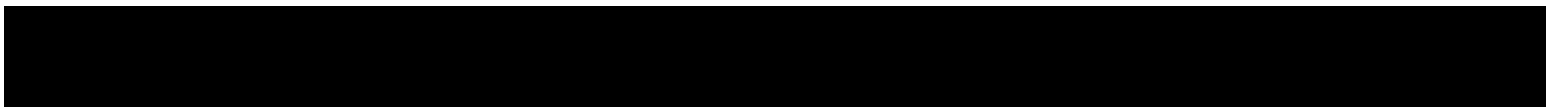
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A

6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A

1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A

5	Public Utility District No. 1 of Chelan County	Meaghan Connell	Affirmative N/A	
6	Public Utility District No. 1 of Chelan County	Anne Kronshage	Affirmative N/A	
3	Public Utility District No. 1 of Chelan County	Joyce Gundry	Affirmative N/A	
10	Texas Reliability Entity, Inc.	Rachel Coyne	Affirmative N/A	
5	Great River Energy	Jacalynn Bentz	Affirmative N/A	
6	Southern Indiana Gas and Electric Co.	Kati Barr	Affirmative N/A	
3	Pacific Gas and Electric Company	Sandra Ellis	Affirmative N/A	
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann	Affirmative N/A	
5	Southern Indiana Gas and Electric Co.	Larry Rogers	Affirmative N/A	
1	Public Utility District No. 1 of Chelan County	Diane E Landry	Affirmative N/A	
5	Pattern Operators LP	George E Brown	Affirmative N/A	
2	New York Independent System Operator	Gregory Campoli	None	N/A
5	New York Power Authority	Zahid Qayyum	Affirmative N/A	
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston	Affirmative N/A	
6	Portland General Electric Co.	Daniel Mason	Affirmative N/A	
3	Edison International - Southern California Edison Company	Romel Aquino	Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Supplemental Regulation Service IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 199

Total Ballot Pool: 235

Quorum: 84.68

Quorum Established Date: 3/16/2023 2:42:32 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	46	1	0	0	0	5	14
Segment: 2	8	0.5	5	0.5	0	0	0	1	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	36	1	0	0	0	7	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.5	176	5.478	1	0.022	0	22	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

1	Hydro-Québec TransÉnergie	Nicolas Turcotte	Affirmative N/A
10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Québec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Abstain N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Abstain N/A

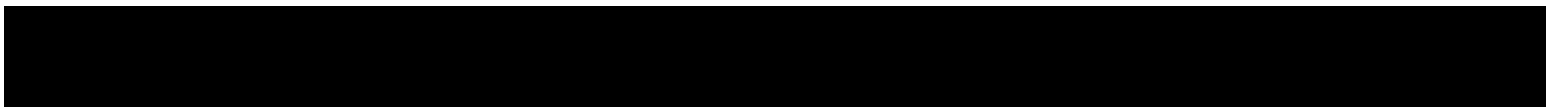
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A

6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A

1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A

5	Public Utility District No. 1 of Chelan County	Meaghan Connell	Affirmative N/A	
6	Public Utility District No. 1 of Chelan County	Anne Kronshage	Affirmative N/A	
3	Public Utility District No. 1 of Chelan County	Joyce Gundry	Affirmative N/A	
10	Texas Reliability Entity, Inc.	Rachel Coyne	Affirmative N/A	
5	Great River Energy	Jacalynn Bentz	Affirmative N/A	
6	Southern Indiana Gas and Electric Co.	Kati Barr	Affirmative N/A	
3	Pacific Gas and Electric Company	Sandra Ellis	Affirmative N/A	
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann	Affirmative N/A	
5	Southern Indiana Gas and Electric Co.	Larry Rogers	Affirmative N/A	
1	Public Utility District No. 1 of Chelan County	Diane E Landry	Affirmative N/A	
5	Pattern Operators LP	George E Brown	Affirmative N/A	
2	New York Independent System Operator	Gregory Campoli	None	N/A
5	New York Power Authority	Zahid Qayyum	Affirmative N/A	
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston	Affirmative N/A	
6	Portland General Electric Co.	Daniel Mason	Affirmative N/A	
3	Edison International - Southern California Edison Company	Romel Aquino	Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Tie Line Bias (TLB) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 199

Total Ballot Pool: 235

Quorum: 84.68

Quorum Established Date: 3/16/2023 2:42:52 PM

Weighted Segment Value: 99.59

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	1	0	0	0	6	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.977	1	0.023	0	5	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	35	1	0	0	0	8	9
Segment: 6	43	1	32	1	0	0	0	6	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	171	5.577	1	0.023	0	27	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Abstain N/A
5	Santee Cooper	Marty Watson	Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

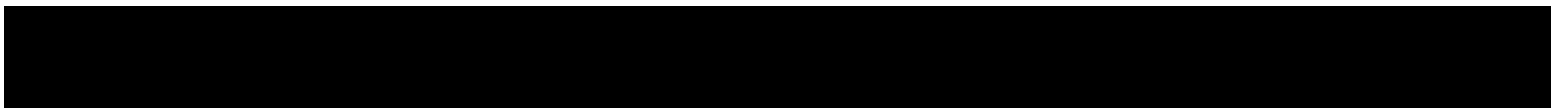
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error (TE) IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 199**Total Ballot Pool:** 235**Quorum:** 84.68**Quorum Established Date:** 3/16/2023 2:45:29 PM**Weighted Segment Value:** 97.84

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	46	0.979	1	0.021	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.957	2	0.043	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	36	0.973	1	0.027	0	6	9
Segment: 6	43	1	33	0.971	1	0.029	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	175	5.479	5	0.121	0	19	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Quebec TransEnergie	Nicolas Turcotte		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A

6	WEC Energy Group, Inc.	David Boeshaar		Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		None N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Marty Watson		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Glenda Horne		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A

3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shippis		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A

6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A

Comments

1	Duke Energy	Laura Lee		Negative	Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A

1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative N/A
5	Great River Energy	Jacalynn Bentz		Affirmative N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative N/A
5	Pattern Operators LP	George E Brown		Affirmative N/A
2	New York Independent System Operator	Gregory Campoli		None N/A
5	New York Power Authority	Zahid Qayyum		Affirmative N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None N/A



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Ballot Results

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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error Correction (TEC) IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 199

Total Ballot Pool: 235

Quorum: 84.68

Quorum Established Date: 3/16/2023 2:45:45 PM

Weighted Segment Value: 99.59

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	1	0	0	0	6	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.977	1	0.023	0	5	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	35	1	0	0	0	8	9
Segment: 6	43	1	32	1	0	0	0	6	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	171	5.577	1	0.023	0	27	36

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Abstain N/A
5	Santee Cooper	Marty Watson	Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
	Los Angeles Department of Water and		

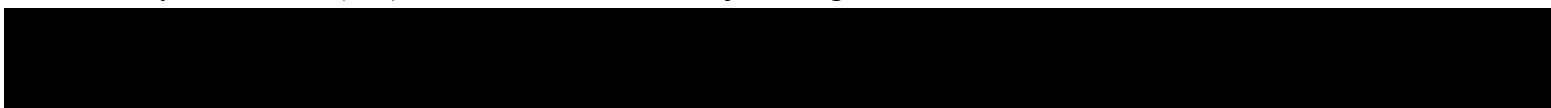
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Retirement - Disturbance Control Standard IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 198

Total Ballot Pool: 235

Quorum: 84.26

Quorum Established Date: 3/16/2023 2:53:08 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	178	5.578	1	0.022	0	19	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
	Los Angeles Department of Water and		

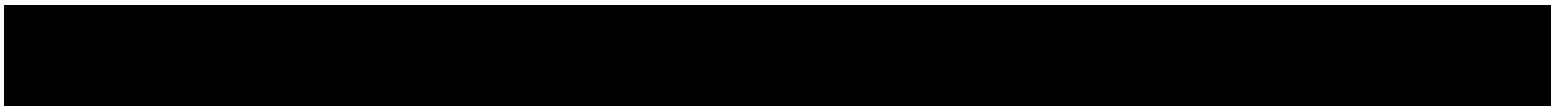
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A

1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A

1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative N/A
5	Great River Energy	Jacalynn Bentz		Affirmative N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative N/A
5	Pattern Operators LP	George E Brown		Affirmative N/A
2	New York Independent System Operator	Gregory Campoli		None N/A
5	New York Power Authority	Zahid Qayyum		Affirmative N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None N/A



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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Actual Interchange IN 1 DEF**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 198**Total Ballot Pool:** 235**Quorum:** 84.26**Quorum Established Date:** 3/16/2023 2:53:59 PM**Weighted Segment Value:** 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	178	5.578	1	0.022	0	19	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A

6	WEC Energy Group, Inc.	David Boeshaar		Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		None N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Marty Watson		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Glenda Horne		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A

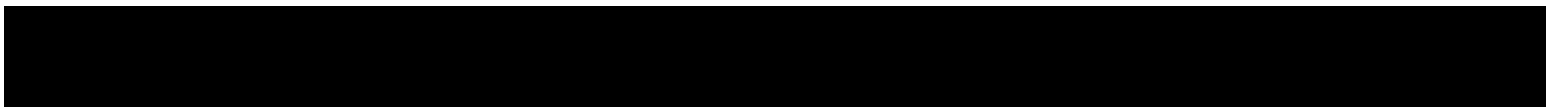
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A

6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A

6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A

1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A

5	Public Utility District No. 1 of Chelan County	Meaghan Connell	Affirmative N/A	
6	Public Utility District No. 1 of Chelan County	Anne Kronshage	Affirmative N/A	
3	Public Utility District No. 1 of Chelan County	Joyce Gundry	Affirmative N/A	
10	Texas Reliability Entity, Inc.	Rachel Coyne	Affirmative N/A	
5	Great River Energy	Jacalynn Bentz	Affirmative N/A	
6	Southern Indiana Gas and Electric Co.	Kati Barr	Affirmative N/A	
3	Pacific Gas and Electric Company	Sandra Ellis	Affirmative N/A	
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann	Affirmative N/A	
5	Southern Indiana Gas and Electric Co.	Larry Rogers	Affirmative N/A	
1	Public Utility District No. 1 of Chelan County	Diane E Landry	Affirmative N/A	
5	Pattern Operators LP	George E Brown	Affirmative N/A	
2	New York Independent System Operator	Gregory Campoli	None	N/A
5	New York Power Authority	Zahid Qayyum	Affirmative N/A	
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston	Affirmative N/A	
6	Portland General Electric Co.	Daniel Mason	Affirmative N/A	
3	Edison International - Southern California Edison Company	Romel Aquino	Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Interchange Schedule IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 198

Total Ballot Pool: 235

Quorum: 84.26

Quorum Established Date: 3/16/2023 2:54:09 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
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Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	178	5.578	1	0.022	0	19	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

10	ReliabilityFirst	Lindsey Mannion	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
	Los Angeles Department of Water and		

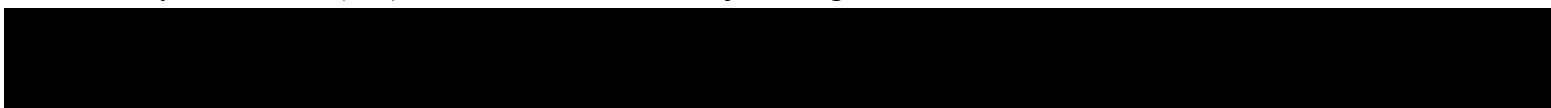
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Results

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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Scheduled Interchange IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 198

Total Ballot Pool: 235

Quorum: 84.26

Quorum Established Date: 3/16/2023 2:54:19 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	4	14
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	178	5.578	1	0.022	0	19	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

5	Bonneville Power Administration	Christopher Siewert	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
	Los Angeles Department of Water and		

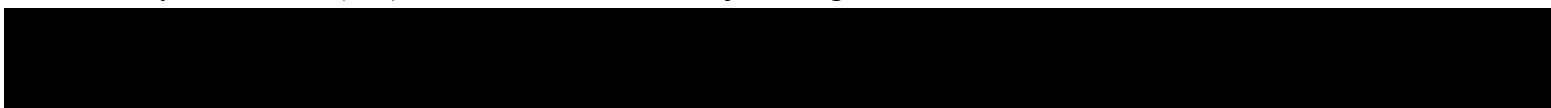
5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A

3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
	CenterPoint Energy Houston Electric,				

1	LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Retirement - Reportable Disturbance IN 1 DEF

Voting Start Date: 3/7/2023 12:01:00 AM

Voting End Date: 3/16/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 198

Total Ballot Pool: 236

Quorum: 83.9

Quorum Established Date: 3/16/2023 2:54:29 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	66	1	47	1	0	0	0	4	15
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	1	0	0	0	6	9
Segment: 6	43	1	34	1	0	0	0	4	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	236	5.6	178	5.578	1	0.022	0	19	38

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		None	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
1	Hydro-Qu?bec TransEnergie	Nicolas Turcotte		Affirmative	N/A

5	Bonneville Power Administration	Christopher Siewert	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreoiu	Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar	Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative N/A
6	Western Area Power Administration	Jennifer Neville	None N/A
6	Omaha Public Power District	Shonda McCain	Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain N/A
2	California ISO	Darcy O'Connell	Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck	Affirmative N/A
3	Bonneville Power Administration	Ken Lanehome	Affirmative N/A
3	Manitoba Hydro	Mike Smith	Affirmative N/A
6	Bonneville Power Administration	Tanner Brier	Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos	Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr	Affirmative N/A
5	Hydro-Quebec Production	Carl Pineault	Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative N/A
3	Santee Cooper	Vicky Budreau	Affirmative N/A
5	Santee Cooper	Marty Watson	Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative N/A
1	Santee Cooper	Chris Wagner	Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative N/A
6	Santee Cooper	Glenda Horne	Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea	Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative N/A
3	Avista - Avista Corporation	Robert Follini	Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain N/A
6	Los Angeles Department of Water and Power	Anton Vu	Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative N/A
1	Xcel Energy, Inc.	Eric Barry	Affirmative N/A
	Los Angeles Department of Water and		

5	Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A

1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A

1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A
5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A

1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		None	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Implementation Plan IN 1 OT**Voting Start Date:** 3/7/2023 12:01:00 AM**Voting End Date:** 3/16/2023 8:00:00 PM**Ballot Type:** OT**Ballot Activity:** IN**Ballot Series:** 1**Total # Votes:** 193**Total Ballot Pool:** 230**Quorum:** 83.91**Quorum Established Date:** 3/16/2023 2:47:12 PM**Weighted Segment Value:** 92.39

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	41	0.911	4	0.089	0	6	13
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	51	1	39	0.886	5	0.114	0	2	5
Segment: 4	8	0.4	4	0.4	0	0	0	1	3
Segment: 5	51	1	30	0.909	3	0.091	0	9	9
Segment: 6	42	1	28	0.875	4	0.125	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	230	5.5	153	5.082	16	0.418	0	24	37

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
3	Los Angeles Department of Water and Power	Fausto Serratos		None	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Abstain	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
5	APS - Arizona Public Service Co.	Michelle Amarantos		Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Negative	Comments Submitted
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A

	New York				
3	Manitoba Hydro	Mike Smith		Negative	Comments Submitted
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		None	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Negative	Comments Submitted
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Negative	Comments Submitted
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		None	N/A
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Abstain	N/A
6	Lakeland Electric	Paul Shipps		None	N/A

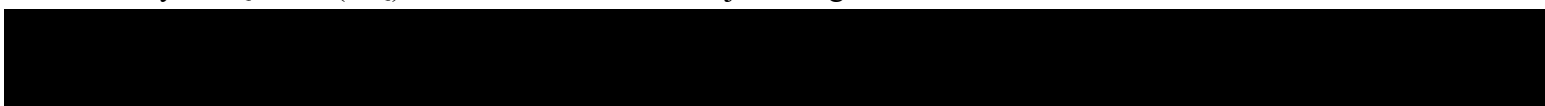
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Hydro-Quebec TransEnergie	Nicolas Turcotte		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		None	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	Comments Submitted
5	Constellation	Alison MacKellar		Abstain	N/A
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Negative	Comments Submitted
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	Comments Submitted
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	Comments Submitted
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		None	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy	Lee Schuster		Affirmative	N/A
5	Hydro-Quebec Production	Carl Pineault		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A

1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		None	N/A
6	Powerex Corporation	Raj Hundal		Abstain	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Duke Energy	Laura Lee		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
10	Midwest Reliability Organization	William Steiner		Affirmative	N/A

5	NextEra Energy	Summer Esquerre		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		None	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Bonneville Power Administration	Ken Lanehome		Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
5	Santee Cooper	Marty Watson		Negative	Comments Submitted
6	Santee Cooper	Glenda Horne		Negative	Comments Submitted
1	Santee Cooper	Chris Wagner		Negative	Comments Submitted
3	Santee Cooper	Vicky Budreau		Negative	Comments Submitted
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Abstain	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Donna Stephenson		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A

5	Colorado Springs Utilities	Jeffrey Icke		None	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		None	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Negative	Comments Submitted
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Negative	Comments Submitted
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	Glen Allegranza		Affirmative	N/A
1	New York Power Authority	Salvatore Spagnolo		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Negative	Comments Submitted
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A

5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Abstain	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Daniel Mason		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	Third-Party Comments
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A



Project 2022-01 Reporting ACE Definition and Associated Terms | Draft 2

The drafting team (DT) is seeking comments on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The I _{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.	Standards None Terms Reporting Ace (<i>proposed</i>)		New term to NERC glossary
Reporting Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the	The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in	Standards • BAL-001-2 • BAL-002-3	Technical Reference Document: Balancing and	Modified to reflect a common term across all multiple BA

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>difference between the Balancing Authority Area's Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction_(ATEC).</p> <p>Reporting ACE is calculated as follows:</p> $\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ <p>Reporting ACE is calculated in the Western Interconnection as follows:</p> $\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ <p>Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. 	<p>scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows:</p> $\text{Reporting ACE} = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{IM}$ <p>Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. <p>I_{IM} = Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and does not need to be included in the Balancing Authority's Reporting ACE.)</p> <ul style="list-style-type: none"> ○ In the Western 	<ul style="list-style-type: none"> • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Automatic Generation Control; • Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); • Pre-Reporting Contingency Event ACE Value; • Pseudo-Tie (<i>current and proposed</i>) 	<p>Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.</p> <p>Added ADI to the updated version.</p>

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • F_s = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as 	<p>Interconnection this term is I_{ATEC}</p> <p>All NERC Interconnections operate using the principles of TieLine Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is 			

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>total Interconnection generation, load, and loss;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>	<p>equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times This includes effects of ACE Diversity Interchnage (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>			

Project 2022-01 Reporting ACE Definition and Associated Terms | Draft 2 (Redline)

The drafting team (DT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. <u>The I_{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.</u>	Standards None Terms Reporting Ace (proposed)		New term to NERC glossary
Reporting Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the	The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-002-3 • BAL-005-1 	Technical Reference Document: Balancing and Frequency	Modified to reflect a common term across all multiple BA interconnections.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction(A_{TEC}). Reporting ACE is calculated as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. 	<p>for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{IM}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. <p>I_{IM} = Inadvertent Interchange Management. <u>(Term is expressed if a regional procedure exists, otherwise is null and does not need to be included in the Balancing Authority's Reporting ACE.)</u></p> <ul style="list-style-type: none"> ○ In the Western 	<p>Terms</p> <ul style="list-style-type: none"> • Automatic Generation Control; • Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); • Pre-Reporting Contingency Event ACE Value; • Pseudo-Tie (<i>current and proposed</i>) 	<p>Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.</p> <p>Added ADI to the updated version.</p>

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is 	<p>Interconnection this term is I_{ATEC}.</p> <p>All NERC Interconnections operate using the principles of TieLine Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is 			

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>the same as total Interconnection generation, load, and loss;</p> <p>2. The algebraic sum of all BAAs’ Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs’ Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>	<p>equal to zero at all times and the sum of all BAAs’ Actual Net Interchange values is equal to zero at all times; <u>This includes effects of ACE Diversity Interchnage (ADI) implementations;</u></p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>			

Project 2022-01 Reporting ACE Definition and Associated Terms | Draft 1

The drafting team (DT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.	Included in Reporting ACE definition.		New definition

Project 2022-01 Reporting ACE Definition and Associated Terms | Draft 1

The drafting team (DT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.	Included in Reporting ACE definition.		New definition

Unofficial Comment Form

Project 2022-01 Reporting ACE Definition and Associated Terms

Do not use this form for submitting comments. Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments on **Project 2022-01 Reporting ACE Definition and Associated Terms**. Comments must be submitted by **8 p.m. Eastern, Monday, October 30, 2023**.

Additional information is available on the [project page](#). If you have questions, contact Standards Developer, [Josh Blume](#) (via email), or at 404-446-2593.

Background Information

Project 2022-01 Reporting ACE Definition and Associated Terms was initiated in February 2022 to address an issue, identified by the Resources Subcommittee (RS) of the NERC Reliability and Security Technical Committee, regarding the current definition of the NERC defined term Reporting Area Control Error (Reporting ACE). Specifically, the RS identified a conflict in the current definition of Reporting ACE with the Western Interconnection's Automatic Time Error Correction (ATEC) process. The RS recommended making the ATEC term generic to allow all Interconnections to implement an ATEC process and revising related defined terms for consistency and clarity.

Questions

1. Do industry members have any comments regarding new modifications to the Inadvertent Interchange Management (IIM) definition? If so, please state in the comments section.

Please select one of the two options:

- No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
- Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Comments:

2. Do industry members have any comments regarding the new modifications to the Reporting ACE definition? If so, please state in the comments section.

Please select one of the two options:

- No suggestions for the new modifications to the Reporting ACE definition.
- Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Comments:

3. Do industry members have any comments regarding the proposed ACE Diversity Interchange (ADI) definition? If so, please state in the comments section.

Please select one of the two options:

- No suggestions for the proposed ADI definition.
- Yes, there are suggestions for the proposed ADI definition.

Comments:

4. Please provide any additional comments for the drafting team to consider, if desired.

Comments:

Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Formal Comment Period Open through October 30, 2023
Ballot Pool Forming through October 13, 2023

[Now Available](#)

A formal comment period for **Project 2022-01 Reporting ACE Definition and Associated Terms**, is open through **8 p.m. Eastern, Monday, October 30, 2023**.

Commenting

Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments. An unofficial Word version of the comment form is posted on the [project page](#).

Reminder Regarding Corporate RBB Memberships

Under the NERC Rules of Procedure, each entity and its affiliates is collectively permitted one voting membership per Registered Ballot Body Segment. Each entity that undergoes a change in corporate structure (such as a merger or acquisition) that results in the entity or affiliated entities having more than the one permitted representative in a particular Segment must withdraw the duplicate membership(s) prior to joining new ballot pools or voting on anything as part of an existing ballot pool. Contact ballotadmin@nerc.net to assist with the removal of any duplicate registrations.

Ballot Pools

Note: There is one new ballot pool forming for the ACE Diversity Interchange (ADI) definition through **8 p.m. Eastern, Friday, October 13, 2023**. Registered Ballot Body members can join the ballot pool [here](#).

- Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.
- Passwords expire every **6 months** and must be reset.
- The SBS is **not** supported for use on mobile devices.
- Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.

Next Steps

An initial ballot for the ACE Diversity Interchange (ADI) definition, and additional ballots for the Inadvertent Interchange Management – (IIM) and Reporting Area Control Error – (Reporting ACE) definitions will be conducted **October 20-30, 2023**.

For information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

North American Electric Reliability Corporation
3353 Peachtree Rd, NE
Suite 600, North Tower
Atlanta, GA 30326
404-446-2560 | www.nerc.com

Comment Report

Project Name: 2022-01 Reporting ACE Definition and Associated Terms | Initial and Additional Posting
Comment Period Start Date: 9/14/2023
Comment Period End Date: 10/30/2023
Associated Ballots: 2022-01 Reporting ACE Definition and Associated Terms Modified - Reporting Area Control Error (Reporting ACE) AB 2 DEF
2022-01 Reporting ACE Definition and Associated Terms New - ACE Diversity Interchange (ADI) IN 1 ST
2022-01 Reporting ACE Definition and Associated Terms New - Inadvertent Interchange Management (IIM) AB 2 DEF

There were 38 sets of responses, including comments from approximately 113 different people from approximately 83 companies representing 10 of the Industry Segments as shown in the table on the following pages.

Questions

1. Do industry members have any comments regarding new modifications to the Inadvertent Interchange Management (IIM) definition? If so, please state in the comments section.

Please select one of the two options:

2. Do industry members have any comments regarding the new modifications to the Reporting ACE definition? If so, please state in the comments section.

Please select one of the two options:

3. Do industry members have any comments regarding the proposed ACE Diversity Interchange (ADI) definition? If so, please state in the comments section.

Please select one of the two options:

4. Please provide any additional comments for the drafting team to consider, if desired.

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
BC Hydro and Power Authority	Adrian Andreoiu	1	WECC	BC Hydro	Hootan Jarollahi	BC Hydro and Power Authority	3	WECC
					Helen Hamilton Harding	BC Hydro and Power Authority	5	WECC
					Adrian Andreoiu	BC Hydro and Power Authority	1	WECC
MRO	Anna Martinson	1,2,3,4,5,6	MRO	MRO Group	Shonda McCain	Omaha Public Power District (OPPD)	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					Jamison Cawley	Nebraska Public Power District	1,3,5	MRO
					Jay Sethi	Manitoba Hydro (MH)	1,3,5,6	MRO
					Jaimin Patal	Saskatchewan Power Corporation (SPC)	1	MRO
					Kimberly Bentley	Western Area Power Administration	1,6	MRO
					Marc Gomez	Southwestern Power Administration (SWPA)	1	MRO
					Fred Meyer	Algonquin Power Co.	3	MRO
					George Brown	Pattern Operators LP	5	MRO
					Larry Heckert	Alliant Energy (ALTE)	4	MRO
					Terry Harbour	MidAmerican Energy Company (MEC)	1,3	MRO
					Bryan Sherrow	Board Of	1	MRO

						Public Utilities (BPU)		
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
					Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Michael Ayotte	ITC Holdings	1	MRO
Elizabeth Davis	Elizabeth Davis		RF,SERC	ISO/RTO Standards Review Committee	Mike Del Viscio	PJM	2	RF
					Bobbi Welch	Midcontinent ISO, Inc.	2	RF
					Helen Lainis	IESO	2	NPCC
					John Pearson	ISO New England, Inc.	2	NPCC
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Charles Yeung	Southwest Power Pool, Inc. (RTO)	2	MRO
					Kennedy Meier	ERCOT	2	Texas RE
					Ali Miremadi	California ISO	2	WECC
ACES Power Marketing	Jodirah Green	1,3,4,5,6	MRO,RF,SERC,Texas RE,WECC	ACES Collaborators	Bob Soloman	Hoosier Energy Electric Cooperative	1	RF
					Kris Carper	Arizona Electric Power Cooperative, Inc.	1	WECC
					Ryan Strom	Buckeye Power, Inc.	1,4	RF
FirstEnergy - FirstEnergy Corporation	Mark Garza	4		FE Voter	Julie Severino	FirstEnergy - FirstEnergy Corporation	1	RF
					Aaron Ghodooshim	FirstEnergy - FirstEnergy Corporation	3	RF
					Robert Loy	FirstEnergy - FirstEnergy Solutions	5	RF
					Mark Garza	FirstEnergy-FirstEnergy	1,3,4,5,6	RF

					Stacey Sheehan	FirstEnergy - FirstEnergy Corporation	6	RF
Southern Company - Southern Company Services, Inc.	Pamela Frazier	1,3,5,6	MRO,RF,SERC,Texas RE,WECC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC
					Joel Dembowski	Southern Company - Alabama Power Company	3	SERC
					Jim Howell, Jr.	Southern Company - Southern Company Generation	5	SERC
					Ron Carlsen	Southern Company - Southern Company Generation	6	SERC
					Leslie Burke	Southern Company - Southern Company Generation	5	SERC
Northeast Power Coordinating Council	Ruida Shu	1,2,3,4,5,6,7,8,9,10	NPCC	NPCC RSC	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Alain Mukama	Hydro One Networks, Inc.	1	NPCC
					Deidre Altobell	Con Edison	1	NPCC
					Jeffrey Streifling	NB Power Corporation	1	NPCC
					Michele Tondalo	United Illuminating Co.	1	NPCC
					Stephanie Ullah-Mazzuca	Orange and Rockland	1	NPCC
					Michael Ridolfino	Central Hudson Gas & Electric Corp.	1	NPCC
					Randy Buswell	Vermont Electric Power	1	NPCC

	Company		
James Grant	NYISO	2	NPCC
John Pearson	ISO New England, Inc.	2	NPCC
Harishkumar Subramani Vijay Kumar	Independent Electricity System Operator	2	NPCC
Randy MacDonald	New Brunswick Power Corporation	2	NPCC
Dermot Smyth	Con Ed - Consolidated Edison Co. of New York	1	NPCC
David Burke	Orange and Rockland	3	NPCC
Peter Yost	Con Ed - Consolidated Edison Co. of New York	3	NPCC
Salvatore Spagnolo	New York Power Authority	1	NPCC
Sean Bodkin	Dominion - Dominion Resources, Inc.	6	NPCC
David Kwan	Ontario Power Generation	4	NPCC
Silvia Mitchell	NextEra Energy - Florida Power and Light Co.	1	NPCC
Glen Smith	Entergy Services	4	NPCC
Sean Cavote	PSEG	4	NPCC
Jason Chandler	Con Edison	5	NPCC
Tracy MacNicoll	Utility Services	5	NPCC
Shivaz Chopra	New York Power Authority	6	NPCC
Vijay Puran	New York	6	NPCC

						State Department of Public Service		
					ALAN ADAMSON	New York State Reliability Council	10	NPCC
					David Kiguel	Independent	7	NPCC
					Joel Charlebois	AESI	7	NPCC
					Joshua London	Eversource Energy	1	NPCC
Stephen Whaite	Stephen Whaite			ReliabilityFirst Ballot Body Member and Proxies	Lindsey Mannion	ReliabilityFirst	10	RF
					Stephen Whaite	ReliabilityFirst	10	RF
Western Electricity Coordinating Council	Steven Rueckert	10		WECC	Steve Rueckert	WECC	10	WECC
					Phil O'Donnell	WECC	10	WECC
Tim Kelley	Tim Kelley		WECC	SMUD	Ryder Couch	Sacramento Municipal Utility District	5	WECC
					Foung Mua	Sacramento Municipal Utility District	4	WECC
					Wei Shao	Sacramento Municipal Utility District	1	WECC
					Nicole Looney	Sacramento Municipal Utility District	3	WECC
					Charles Norton	Sacramento Municipal Utility District	6	WECC

1. Do industry members have any comments regarding new modifications to the Inadvertent Interchange Management (IIM) definition? If so, please state in the comments section.

Please select one of the two options:

Ben Hammer - Western Area Power Administration - 1

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - 1 - WECC

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Casey Perry - PNM Resources - 1,3 - WECC,Texas RE	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
PNM and TNMP do not object to the proposed modifications to the proposed term Inadvertent Interchange Management (IIM) or have any suggested modifications to the definition.	
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	

N/A

Likes 0

Dislikes 0

Response

Rebecca Zahler - Public Utility District No. 1 of Chelan County - 5

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

C. A. Campbell - LS Power Development, LLC - 5

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Scott McGough - Georgia System Operations Corporation - 3,4

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jennifer Bray - Arizona Electric Power Cooperative, Inc. - 1

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Sheila Suurmeier - Black Hills Corporation - 5

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Claudine Bates - Black Hills Corporation - 6

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Micah Runner - Black Hills Corporation - 1

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Dwanique Spiller - Berkshire Hathaway - NV Energy - 5

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

FirstEnergy has no objection to the modifications to the Inadvertent Interchange Management (IIM) definition.

Likes 0

Dislikes 0

Response

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

David Jendras Sr - Ameren - Ameren Services - 3

Answer

No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Ameren agrees with and supports MISO's comments.

Likes 0

Dislikes 0

Response

Helen Lainis - Independent Electricity System Operator - 2

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

No suggestions.

Likes 0

Dislikes 0

Response

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Ken Habgood - Seminole Electric Cooperative, Inc. - 4

Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	

Likes 0

Dislikes 0

Response

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

Please consider modifying the IIM definition as follows: A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The IIM value is not used for unilateral paybacks and is “zero (0)” unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.

Likes 0

Dislikes 0

Response	
<p>Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company</p>	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
<p>Southern Company supports the EEI comment and agrees that the language as written in the Inadvertent Interchange Management definition could allow for an interpretation that could indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process.</p>	
Likes 0	
Dislikes 0	

Response	
<p>Richard Vendetti - NextEra Energy - 5</p>	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
<p>FPL supports comments submitted by EEI for project 2022-01.</p>	
Likes 0	
Dislikes 0	

Response	
<p>Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable</p>	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
<p>EEI is generally supportive of the intent of the proposed definition and draft 2 modifications, however, as written the proposed definition could be understood to indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process. To address this concern, we offer the following edits in boldface.</p>	

A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The IIM value is not used for unilateral paybacks and is null unless there is a regional procedure **the Balancing Authority has agreed to implement, otherwise is null and does not need to be included in the Balancing Authority's Reporting ACE.**

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer

Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name

Comment

ITC supports EEI submitted comments

Likes 0

Dislikes 0

Response

2. Do industry members have any comments regarding the new modifications to the Reporting ACE definition? If so, please state in the comments section.

Please select one of the two options:

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

ITC supports EEI submitted comments

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

EEI is generally supportive of the intent of the proposed definition and draft 2 modifications, however, as written the proposed definition could be understood to indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process. To address this concern, we offer the following edits in boldface.

The scan rate values of a Balancing Authority Area's Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows:

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + IIM Where:

- NIA = Actual Net Interchange.
- NIS = Scheduled Net Interchange.
- B = Frequency Bias Setting.
- FA = Actual Frequency.
- FS = Scheduled Frequency.
- IME = Interchange Meter Error.

IIM = Inadvertent Interchange Management. (Term is expressed if a regional procedure **the Balancing Authority has agreed to implement, otherwise is null and does not need to be included in the Balancing Authority's Reporting ACE.**)

- In the Western

Likes 0

Dislikes 0

Response

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

SPP recommends that the Reporting ACE definition revision insertion regarding ADI be modified from, *“This includes effects of ACE Diversity Interchange (ADI) implementations”* to ***“Implementations of ACE Diversity Interchange (ADI) must collectively include or exclude the effect of ADI in Reporting ACE to avoid unbalancing this principle.”***

Likes 0

Dislikes 0

Response

Richard Vendetti - NextEra Energy - 5

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

FPL supports comments submitted by EEI for project 2022-01.

Likes 0

Dislikes 0

Response

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Southern Company supports the EEI comments and agrees that the language in the Reporting Ace definition could be understood to indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process.

Likes 0

Dislikes 0

Response

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

BC Hydro appreciates the drafting team's efforts and the opportunity to comment, and offers the following comments and suggestions.

1. The description of the term IIM should be a bulleted item, similar to the other descriptions of the other terms of the Reporting ACE equation.
2. The wording accompanying the IIM term description should state "otherwise is null and is not to be included in the BA's Reporting ACE" instead of "does not need to be included" as the current wording might be misinterpreted that the inclusion of the IIM term is optional even if a regional procedure exists.
3. There appears to be typos in the revised draft definition.
 - "expresssed" within the brackets following the IIM definition should read "expressed".
 - "Interchnage" in the last sentence under item 2 should read "Interchange".
 - "TieLine" in the paragraph following the Reporting ACE equation should read "Tie Line" to reflect the defined term in the NERC Glossary (Tie Line Bias).
4. In reviewing the second draft of the Reporting ACE definition, BC Hydro notes that the use of "error in scheduled interchange" in the first sentence of the definition may create confusion. BC Hydro suggests that the wording in the first sentence of the current Reporting ACE definition is better describing the calculation formula, and therefore could be retained as is and only include the additional term proposed in this project 2022-01.

BC Hydro recommends that the first sentence of the proposed Reporting ACE definition be as follows:

"The scan rate values of a Balancing Authority Area's (BAA) Area Control Error (ACE) measured in MW includes the difference between the BAA's Actual Net Interchange and its Scheduled Net Interchange, adjusted for its Frequency Bias obligation, known meter error, and inadvertent interchange management."

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name	
Comment	
<p>Please consider modifying the ACE definition as follows: The scan rate values of a Balancing Authority Area's Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias "minimum", known meter error, and inadvertent management...</p> <p>IIM = Inadvertent Interchange Management. (Term is "expressed" if a regional procedure exists, otherwise is "zero (0)" and does not need to be included in the Balancing Authority "Area's" Reporting ACE.)</p>	
Likes	0
Dislikes	0
Response	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
<p>ACES agrees with the proposed changes to the Reporting ACE definition.</p> <p>We would however like to point out a minor typo in principle 2 of Tie Line Bias control. The word Interchange is inadvertently misspelled in the 2nd sentence.</p>	
Likes	0
Dislikes	0
Response	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	

Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ken Habgood - Seminole Electric Cooperative, Inc. - 4	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

No suggestions.

Likes 0

Dislikes 0

Response

Helen Lainis - Independent Electricity System Operator - 2

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

David Jendras Sr - Ameren - Ameren Services - 3

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Ameren agrees with and supports MISO's comments.

Likes 0

Dislikes 0

Response	
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
FirstEnergy has no objection to the modifications to the new modifications to the Reporting ACE definition.	
Likes 0	
Dislikes 0	
Response	
Dwanique Spiller - Berkshire Hathaway - NV Energy - 5	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Foug Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility	

District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Micah Runner - Black Hills Corporation - 1

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Claudine Bates - Black Hills Corporation - 6

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Sheila Suurmeier - Black Hills Corporation - 5

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jennifer Bray - Arizona Electric Power Cooperative, Inc. - 1

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group

Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Scott McGough - Georgia System Operations Corporation - 3,4	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
C. A. Campbell - LS Power Development, LLC - 5	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	

Dislikes 0

Response

Rebecca Zahler - Public Utility District No. 1 of Chelan County - 5

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

There is a typo on page 4, in section #2; it should read "interchange"

Likes 0

Dislikes 0

Response

Daniela Atanasovski - APS - Arizona Public Service Co. - 1

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

N/A

Likes 0

Dislikes 0

Response

Donna Wood - Tri-State G and T Association, Inc. - 1

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - 1,3 - WECC,Texas RE

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

PNM and TNMP do not object to the proposed modifications to the term Reporting ACE or have any suggested modifications to the definition.

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - 1 - WECC

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Ben Hammer - Western Area Power Administration - 1

Answer

No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

3. Do industry members have any comments regarding the proposed ACE Diversity Interchange (ADI) definition? If so, please state in the comments section.

Please select one of the two options:

Ben Hammer - Western Area Power Administration - 1

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jessica Cordero - Unisource - Tucson Electric Power Co. - 1 - WECC

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Casey Perry - PNM Resources - 1,3 - WECC,Texas RE	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
PNM and TNMP do not object to the proposed new term (ACE Diversity Interchange (ADI)) or have any suggested modifications to the proposed definition.	
Likes 0	
Dislikes 0	
Response	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	

N/A

Likes 0

Dislikes 0

Response

Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

C. A. Campbell - LS Power Development, LLC - 5

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Scott McGough - Georgia System Operations Corporation - 3,4

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jennifer Bray - Arizona Electric Power Cooperative, Inc. - 1

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Sheila Suurmeier - Black Hills Corporation - 5

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Claudine Bates - Black Hills Corporation - 6

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Micah Runner - Black Hills Corporation - 1

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Note: Draft 1 included the ADI definition but was deleted from the Draft 2 Clean and Redline versions that requested comments. No comments for this term as stated in Draft 1.

Likes 0

Dislikes 0

Response

Dwanique Spiller - Berkshire Hathaway - NV Energy - 5

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

FirstEnergy has no objection to the proposed ACE Diversity Interchange (ADI) definition.

Likes 0

Dislikes 0

Response

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer No suggestions for the proposed ADI definition.

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Ameren agrees with and supports MISO's comments.	

Likes 0

Dislikes 0

Response

Helen Lainis - Independent Electricity System Operator - 2

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Ken Habgood - Seminole Electric Cooperative, Inc. - 4

Answer

No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable

Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
EEI does not object to the proposed new term (ACE Diversity Interchange (ADI)) or have any suggested modifications to the proposed definition.	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	

Likes 0

Dislikes 0

Response

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Rebecca Zahler - Public Utility District No. 1 of Chelan County - 5

Answer Yes, there are suggestions for the proposed ADI definition.

Document Name

Comment

The definition should more explicitly say that the sum of exchanges or offsets should sum to zero rather than simply saying frequency neutral.

Likes 0

Dislikes 0

Response

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer Yes, there are suggestions for the proposed ADI definition.

Document Name

Comment

SMUD appreciates the Standards Drafting Team creating a new definition for ADI but this definition requires additional changes to address the following concerns: 1) ADI is not a program but a pseudo interchange term added in the ACE calculation, and 2) ADI term should be defined only in the Net Actual Interchange term to make it standardized.

We propose the following new definition to addresses those concerns – “A frequency neutral pseudo interchange added into the Reporting ACE calculation as a part of the Actual Net Interchange component through offsetting all ADI program participating Balancing Authorities’ ACE to bring the Reporting ACE values closer to zero for each participant and achieving reductions in their generation control.”

Likes 0

Dislikes 0

Response

Richard Vendetti - NextEra Energy - 5

Answer Yes, there are suggestions for the proposed ADI definition.

Document Name

Comment

FPL supports comments submitted by EEI for project 2022-01.

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez

Answer Yes, there are suggestions for the proposed ADI definition.

Document Name

Comment

SRP supports SMUD and BANC comments for the ADI definition.

Likes 0

Dislikes 0

Response

Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott

Answer

Yes, there are suggestions for the proposed ADI definition.

Document Name

Comment

ITC supports EEI submitted comments

Likes 0

Dislikes 0

Response

4. Please provide any additional comments for the drafting team to consider, if desired.

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer

Document Name

Comment

Thank you for the opportunity to comment.

Likes 0

Dislikes 0

Response

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer

Document Name

Comment

ERCOT joins the comments submitted by the ISO/RTO Council (IRC) Standards Review Committee (SRC) and adopts them as its own. ERCOT also notes that there appears to be a typographical error in the definition for **Reporting Area Control Error (Reporting ACE)**, on page 4, Tie-Line Bias control principle #2, where the definition refers to "Interchnage" instead of "Interchange"

Likes 0

Dislikes 0

Response

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer

Document Name

Comment

We support the modified definitions.

Likes 0

Dislikes 0

Response

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer

Document Name

Comment

With the modifications to Reporting Area Control Error (Reporting ACE), has the SDT considered the impacts to the industry and policies that would come through The Personnel Certification Governance Committee (PCGC) with regards to the NERC System Operator Certification Program?

SPP also supports NSRF comments to fix a typographical error in the definition for **Reporting Area Control Error (Reporting ACE)**, on page 4, in Tie-Line Bias control principle #2: "Interchnage" should be "Interchange."

Likes 0

Dislikes 0

Response

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez

Answer

Document Name

Comment

none.

Likes 0

Dislikes 0

Response

David Jendras Sr - Ameren - Ameren Services - 3

Answer

Document Name

Comment

Ameren agrees with and supports MISO's comments.

Likes 0

Dislikes 0

Response

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer

Document Name

Comment

none

Likes 0

Dislikes 0

Response

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer

Document Name

Comment

N/A

Likes 0

Dislikes 0

Response

Dwanique Spiller - Berkshire Hathaway - NV Energy - 5

Answer

Document Name

Comment

NV Energy appreciates the work done by the Standard Drafting Team to incorporate recommendations submitted.

The only suggestion we have is to fix a typographical error in the definition for **Reporting Area Control Error (Reporting ACE)**, on page 4, in Tie-Line Bias control principle #2: "Interchange" should be "Interchange."

Likes 0

Dislikes 0

Response

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Diana Torres - Imperial Irrigation District - 6

Answer

Document Name

Comment

None

Likes 0

Dislikes 0

Response

Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group

Answer

Document Name

Comment

The MRO NSRF appreciates the work done by the Standard Drafting Team to incorporate recommendations submitted.

The only suggestion we have is to fix a typographical error in the definition for **Reporting Area Control Error (Reporting ACE)**, on page 4, in Tie-Line Bias control principle #2: "Interchnage" should be "Interchange."

Likes 0

Dislikes 0

Response

Daniela Atanasovski - APS - Arizona Public Service Co. - 1

Answer

Document Name

Comment

AZPS does not have any additional comments and supports the proposed definitions.

Likes 0

Dislikes 0

Response

Donna Wood - Tri-State G and T Association, Inc. - 1

Answer

Document Name

Comment

NA

Likes 0

Dislikes 0

Response

Casey Perry - PNM Resources - 1,3 - WECC,Texas RE

Answer

Document Name

Comment

No Additional Comments for PNM and TNMP.

Likes 0

Dislikes 0

Response

Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC

Answer

Document Name

Comment

WECC supports both revised definitions and the proposed new definition.

Likes 0

Dislikes 0

Response

Ben Hammer - Western Area Power Administration - 1

Answer

Document Name

Comment

typo in the definition for **Reporting Area Control Error (Reporting ACE)**, on page 4, in Tie-Line Bias control principle #2: "Interchnage" should be "Interchange."

Likes 0

Dislikes 0

Response

Consideration of Comments

Project Name:	2022-01 Reporting ACE Definition and Associated Terms Initial and Additional Posting
Comment Period Start Date:	9/14/2023
Comment Period End Date:	10/30/2023
Associated Ballot(s):	2022-01 Reporting ACE Definition and Associated Terms Modified - Reporting Area Control Error (Reporting ACE) AB 2 DEF 2022-01 Reporting ACE Definition and Associated Terms New - ACE Diversity Interchange (ADI) IN 1 ST 2022-01 Reporting ACE Definition and Associated Terms New - Inadvertent Interchange Management (IIM) AB 2 DEF

There were 38 sets of responses, including comments from approximately 113 different people from approximately 83 companies representing 10 of the Industry Segments as shown in the table on the following pages.

All comments submitted can be reviewed in their original format on the [project page](#).

If you feel that your comment has been overlooked, let us know immediately. Our goal is to give every comment serious consideration in this process. If you feel there has been an error or omission, contact Director, Standards Development [Latrice Harkness](#) (via email) or at (404) 858-8088.

Questions

1. Do industry members have any comments regarding new modifications to the Inadvertent Interchange Management (IIM) definition? If so, please state in the comments section.
2. Do industry members have any comments regarding the new modifications to the Reporting ACE definition? If so, please state in the comments section.
3. Do industry members have any comments regarding the proposed ACE Diversity Interchange (ADI) definition? If so, please state in the comments section.
4. Please provide any additional comments for the drafting team to consider, if desired.

The Industry Segments are:

- 1 — Transmission Owners
- 2 — RTOs, ISOs
- 3 — Load-serving Entities
- 4 — Transmission-dependent Utilities
- 5 — Electric Generators
- 6 — Electricity Brokers, Aggregators, and Marketers
- 7 — Large Electricity End Users
- 8 — Small Electricity End Users
- 9 — Federal, State, Provincial Regulatory or other Government Entities
- 10 — Regional Reliability Organizations, Regional Entities

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
BC Hydro and Power Authority	Adrian Andreoiu	1	WECC	BC Hydro	Hootan Jarollahi	BC Hydro and Power Authority	3	WECC
					Helen Hamilton Harding	BC Hydro and Power Authority	5	WECC
					Adrian Andreoiu	BC Hydro and Power Authority	1	WECC
MRO	Anna Martinson	1,2,3,4,5,6	MRO	MRO Group	Shonda McCain	Omaha Public Power District (OPPD)	1,3,5,6	MRO
					Michael Brytowski	Great River Energy	1,3,5,6	MRO
					Jamison Cawley	Nebraska Public Power District	1,3,5	MRO
					Jay Sethi	Manitoba Hydro (MH)	1,3,5,6	MRO
					Jaimin Patal	Saskatchewan Power Corporation (SPC)	1	MRO

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Kimberly Bentley	Western Area Power Administration	1,6	MRO
					Marc Gomez	Southwestern Power Administration (SWPA)	1	MRO
					Fred Meyer	Algonquin Power Co.	3	MRO
					George Brown	Pattern Operators LP	5	MRO
					Larry Heckert	Alliant Energy (ALTE)	4	MRO
					Terry Harbour	MidAmerican Energy Company (MEC)	1,3	MRO
					Bryan Sherrow	Board Of Public Utilities (BPU)	1	MRO
					Seth Shoemaker	Muscatine Power & Water	1,3,5,6	MRO
					Bobbi Welch	Midcontinent ISO, Inc.	2	MRO
					Michael Ayotte	ITC Holdings	1	MRO

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
Elizabeth Davis	Elizabeth Davis		RF,SERC	ISO/RTO Standards Review Committee	Mike Del Viscio	PJM	2	RF
					Bobbi Welch	Midcontinent ISO, Inc.	2	RF
					Helen Lainis	IESO	2	NPCC
					John Pearson	ISO New England, Inc.	2	NPCC
					Gregory Campoli	New York Independent System Operator	2	NPCC
					Charles Yeung	Southwest Power Pool, Inc. (RTO)	2	MRO
					Kennedy Meier	ERCOT	2	Texas RE
					Ali Miremadi	California ISO	2	WECC
ACES Power Marketing	Jodirah Green	1,3,4,5,6	MRO,RF,SERC,Texas RE,WECC	ACES Collaborators	Bob Soloman	Hoosier Energy Electric Cooperative	1	RF
					Kris Carper	Arizona Electric Power Cooperative, Inc.	1	WECC
					Ryan Strom	Buckeye Power, Inc.	1,4	RF

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
FirstEnergy - FirstEnergy Corporation	Mark Garza	4		FE Voter	Julie Severino	FirstEnergy - FirstEnergy Corporation	1	RF
					Aaron Ghodooshim	FirstEnergy - FirstEnergy Corporation	3	RF
					Robert Loy	FirstEnergy - FirstEnergy Solutions	5	RF
					Mark Garza	FirstEnergy- FirstEnergy	1,3,4,5,6	RF
					Stacey Sheehan	FirstEnergy - FirstEnergy Corporation	6	RF
Southern Company - Southern Company Services, Inc.	Pamela Frazier	1,3,5,6	MRO,RF,SERC,Texas RE,WECC	Southern Company	Matt Carden	Southern Company - Southern Company Services, Inc.	1	SERC
					Joel Dembowski	Southern Company - Alabama Power Company	3	SERC
					Jim Howell, Jr.	Southern Company -	5	SERC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
						Southern Company Generation		
					Ron Carlsen	Southern Company - Southern Company Generation	6	SERC
					Leslie Burke	Southern Company - Southern Company Generation	5	SERC
Northeast Power Coordinating Council	Ruida Shu	1,2,3,4,5,6,7,8,9,10	NPCC	NPCC RSC	Gerry Dunbar	Northeast Power Coordinating Council	10	NPCC
					Alain Mukama	Hydro One Networks, Inc.	1	NPCC
					Deidre Altobell	Con Edison	1	NPCC
					Jeffrey Streifling	NB Power Corporation	1	NPCC
					Michele Tondalo	United Illuminating Co.	1	NPCC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Stephanie Ullah-Mazzuca	Orange and Rockland	1	NPCC
					Michael Ridolfino	Central Hudson Gas & Electric Corp.	1	NPCC
					Randy Buswell	Vermont Electric Power Company	1	NPCC
					James Grant	NYISO	2	NPCC
					John Pearson	ISO New England, Inc.	2	NPCC
					Harishkumar Subramani Vijay Kumar	Independent Electricity System Operator	2	NPCC
					Randy MacDonald	New Brunswick Power Corporation	2	NPCC
					Dermot Smyth	Con Ed - Consolidated Edison Co. of New York	1	NPCC
					David Burke	Orange and Rockland	3	NPCC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Peter Yost	Con Ed - Consolidated Edison Co. of New York	3	NPCC
					Salvatore Spagnolo	New York Power Authority	1	NPCC
					Sean Bodkin	Dominion - Dominion Resources, Inc.	6	NPCC
					David Kwan	Ontario Power Generation	4	NPCC
					Silvia Mitchell	NextEra Energy - Florida Power and Light Co.	1	NPCC
					Glen Smith	Entergy Services	4	NPCC
					Sean Cavote	PSEG	4	NPCC
					Jason Chandler	Con Edison	5	NPCC
					Tracy MacNicoll	Utility Services	5	NPCC
					Shivaz Chopra	New York Power Authority	6	NPCC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Vijay Puran	New York State Department of Public Service	6	NPCC
					ALAN ADAMSON	New York State Reliability Council	10	NPCC
					David Kiguel	Independent	7	NPCC
					Joel Charlebois	AESI	7	NPCC
					Joshua London	Eversource Energy	1	NPCC
Stephen Whaite	Stephen Whaite			ReliabilityFirst Ballot Body Member and Proxies	Lindsey Mannion	ReliabilityFirst	10	RF
					Stephen Whaite	ReliabilityFirst	10	RF
Western Electricity Coordinating Council	Steven Rueckert	10		WECC	Steve Rueckert	WECC	10	WECC
					Phil O'Donnell	WECC	10	WECC
Tim Kelley	Tim Kelley		WECC	SMUD	Ryder Couch	Sacramento Municipal Utility District	5	WECC
					Foung Mua	Sacramento Municipal Utility District	4	WECC

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
					Wei Shao	Sacramento Municipal Utility District	1	WECC
					Nicole Looney	Sacramento Municipal Utility District	3	WECC
					Charles Norton	Sacramento Municipal Utility District	6	WECC

1. Do industry members have any comments regarding new modifications to the Inadvertent Interchange Management (IIM) definition? If so, please state in the comments section.	
Ben Hammer - Western Area Power Administration - 1	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - 1 - WECC	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO	

Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Casey Perry - PNM Resources - 1,3 - WECC,Texas RE	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	

PNM and TNMP do not object to the proposed modifications to the proposed term Inadvertent Interchange Management (IIM) or have any suggested modifications to the definition.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
N/A	
Likes 0	

Dislikes	0
Response	
Thank you for your support.	
Rebecca Zahler - Public Utility District No. 1 of Chelan County - 5	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
C. A. Campbell - LS Power Development, LLC - 5	

Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Scott McGough - Georgia System Operations Corporation - 3,4	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for your support.	
Diana Torres - Imperial Irrigation District - 6	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Jennifer Bray - Arizona Electric Power Cooperative, Inc. - 1	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Sheila Suurmeier - Black Hills Corporation - 5	

Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Claudine Bates - Black Hills Corporation - 6	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Micah Runner - Black Hills Corporation - 1	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thank you for your support.	
Dwanique Spiller - Berkshire Hathaway - NV Energy - 5	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
FirstEnergy has no objection to the modifications to the Inadvertent Interchange Management (IIM) definition.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Ameren agrees with and supports MISO's comments.	

Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Helen Lainis - Independent Electricity System Operator - 2	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
No suggestions.	
Likes 0	
Dislikes 0	
Response	

Thank you for your support.	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Ken Habgood - Seminole Electric Cooperative, Inc. - 4	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for your support.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.

Document Name	
Comment	
Please consider modifying the IIM definition as follows: A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The IIM value is not used for unilateral paybacks and is “zero (0)” unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The drafting team intentionally elected to utilize the term "null" vs. "zero" to recognize that a responsible entity may leave their Reporting ACE definition as it currently exists unless a regional procedure is in place. If the Reporting ACE definition required a "zero", every responsible entity outside of the Western Interconnection would need to modify their Reporting ACE term to include a "zero" value. The SDT believes this is not needed for any reasons related to reliable operation.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
Southern Company supports the EEI comment and agrees that the language as written in the Inadvertent Interchange Management definition could allow for an interpretation that could indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process.	
Likes 0	
Dislikes 0	
Response	

Thank you for your comment. See response to EEI.	
Richard Vendetti - NextEra Energy - 5	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
FPL supports comments submitted by EEI for project 2022-01.	
Likes	0
Dislikes	0
Response	
Thank you for your comment. See response to EEI.	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
<p>EEI is generally supportive of the intent of the proposed definition and draft 2 modifications, however, as written the proposed definition could be understood to indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process. To address this concern, we offer the following edits in boldface.</p> <p>A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The IIM value is not used for unilateral paybacks and is null unless there is a regional procedure the Balancing Authority has agreed to implement, otherwise is null and does not need to be included in the Balancing Authority's Reporting ACE.</p>	
Likes	0

Dislikes	0
Response	
Thank you for your comment. The intent of this wording was to only require the IIM value in the Reporting ACE term when there exists an industry approved regional procedure. A BAA does not "agree" to these procedures if and when implemented but would require to participate when implemented. For the Western Interconnection, all BAAs must operate to the requirements within BAL-004-WECC-3. No other regional procedures are known at this time and as such would not be applicable to entities outside of the Western Interconnection.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes, there are suggestions for the new modifications to the Inadvertent Interchange Management (IIM) definition.
Document Name	
Comment	
ITC supports EEI submitted comments	
Likes	0
Dislikes	0
Response	
Thank you for your comment. See response to EEI.	

2. Do industry members have any comments regarding the new modifications to the Reporting ACE definition? If so, please state in the comments section.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes, there are suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
ITC supports EEI submitted comments	
Likes	0
Dislikes	0
Response	
Thank you for your comment. See response to EEI.	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	Yes, there are suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
<p>EEI is generally supportive of the intent of the proposed definition and draft 2 modifications, however, as written the proposed definition could be understood to indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process. To address this concern, we offer the following edits in boldface.</p> <p>The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows:</p>	

Reporting ACE = (NIA − NIS) − 10B (FA − FS) – IME + IIM Where:

- NIA = Actual Net Interchange.
- NIS = Scheduled Net Interchange.
- B = Frequency Bias Setting.
- FA = Actual Frequency.
- FS = Scheduled Frequency.
- IME = Interchange Meter Error.

IIM = Inadvertent Interchange Management. (Term is expressed if a regional procedure **the Balancing Authority has agreed to implement, otherwise is null and does not need to be included in the Balancing Authority’s Reporting ACE.**)

- In the Western

Likes 0

Dislikes 0

Response

Thank you for your comment. The intent of this wording was to only require the IIM value in the Reporting ACE term when there exists an industry approved regional procedure. A BAA does not "agree" to these procedures if and when implemented but would be required to participate when implemented. For the Western Interconnection, all BAAs must operate to the requirements within BAL-004-WECC-3. No other regional procedures are known at this time and as such would not be applicable to entities outside of the Western Interconnection.

Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

SPP recommends that the Reporting ACE definition revision insertion regarding ADI be modified from, *“This includes effects of ACE Diversity Interchange (ADI) implementations”* to ***“Implementations of ACE Diversity Interchange (ADI) must collectively include or exclude the effect of ADI in Reporting ACE to avoid unbalancing this principle.”***

Likes	0
Dislikes	0
Response	
Thank you for your comment. The drafting team has reviewed the language and principle 2 of the Reporting ACE definition and determined the more explicit language is not only unnecessary, but might create more confusion since ADI is not a separate term used in the calculation.	
Richard Vendetti - NextEra Energy - 5	
Answer	Yes, there are suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
FPL supports comments submitted by EEI for project 2022-01.	
Likes	0
Dislikes	0
Response	
Thank you for your comment. See response to EEI.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	Yes, there are suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Southern Company supports the EEI comments and agrees that the language in the Reporting Ace definition could be understood to indirectly obligate a BA to participate in a program that has not gone through an industry feedback and voting process.	
Likes	0

Dislikes	0
Response	
Thank you for your comment. See response to EEI.	
Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro	
Answer	Yes, there are suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
<p>BC Hydro appreciates the drafting team’s efforts and the opportunity to comment, and offers the following comments and suggestions.</p> <ol style="list-style-type: none"> 1. The description of the term IIM should be a bulleted item, similar to the other descriptions of the other terms of the Reporting ACE equation. 2. The wording accompanying the IIM term description should state “otherwise is null and is not to be included in the BA’s Reporting ACE” instead of “does not need to be included” as the current wording might be misinterpreted that the inclusion of the IIM term is optional even if a regional procedure exists. 3. There appears to be typos in the revised draft definition. <ul style="list-style-type: none"> • “expressed” within the brackets following the IIM definition should read “expressed”. • “Interchnage” in the last sentence under item 2 should read” Interchange”. • “TieLine” in the paragraph following the Reporting ACE equation should read “Tie Line” to reflect the defined term in the NERC Glossary (Tie Line Bias). 4. In reviewing the second draft of the Reporting ACE definition, BC Hydro notes that the use of “error in scheduled interchange” in the first sentence of the definition may create confusion. BC Hydro suggests that the wording in the first sentence of the current Reporting ACE definition is better describing the calculation formula, and therefore could be retained as is and only include the additional term proposed in this project 2022-01. <p>BC Hydro recommends that the first sentence of the proposed Reporting ACE definition be as follows:</p>	

“The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the BAA’s Actual Net Interchange and its Scheduled Net Interchange, adjusted for its Frequency Bias obligation, known meter error, and inadvertent interchange management.”

Likes 0

Dislikes 0

Response

Thank you for your comments.

1. The bullet will be added to the IIM term.
2. The drafting team has modified the IIM term description to clarify the wording.
3. The typographical errors will be corrected.
4. The SDT discussed your comment extensively and has decided not to modify the definition. The term as defined was intentionally left non-specific for general readability, but the SDT believes the remainder of the defined terms add necessary clarity.

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer

Yes, there are suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Please consider modifying the ACE definition as follows: The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias “minimum”, known meter error, and inadvertent management...

IIM = Inadvertent Interchange Management. (Term is “expressed” if a regional procedure exists, otherwise is “zero (0)” and does not need to be included in the Balancing Authority “Area's” Reporting ACE.)

Likes 0

Dislikes 0

Response

Thank you for your comments. "Minimum" is only applicable to those BAAs which have a natural frequency response that is less than their actual frequency bias obligation that is calculated based upon .9% of their peak load values. Many BAAs have implemented a bias setting that is more negative than this value.

Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

ACES agrees with the proposed changes to the Reporting ACE definition.

We would however like to point out a minor typo in principle 2 of Tie Line Bias control. The word Interchange is inadvertently misspelled in the 2nd sentence.

Likes 0

Dislikes 0

Response

Thank you for your support. The team has corrected the typo.

Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2

Answer No suggestions for the new modifications to the Reporting ACE definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Thank you for your support.

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC

Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for your support.	
Ken Habgood - Seminole Electric Cooperative, Inc. - 4	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
No suggestions.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Helen Lainis - Independent Electricity System Operator - 2	
Answer	No suggestions for the new modifications to the Reporting ACE definition.

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Ameren agrees with and supports MISO's comments.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for your support.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
FirstEnergy has no objection to the modifications to the new modifications to the Reporting ACE definition.	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Dwanique Spiller - Berkshire Hathaway - NV Energy - 5	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD	
Answer	No suggestions for the new modifications to the Reporting ACE definition.

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Micah Runner - Black Hills Corporation - 1	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Claudine Bates - Black Hills Corporation - 6	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thank you for your support.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Jennifer Bray - Arizona Electric Power Cooperative, Inc. - 1	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for your support.	
Diana Torres - Imperial Irrigation District - 6	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Scott McGough - Georgia System Operations Corporation - 3,4	
Answer	No suggestions for the new modifications to the Reporting ACE definition.

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
C. A. Campbell - LS Power Development, LLC - 5	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thank you for your support.	
Rebecca Zahler - Public Utility District No. 1 of Chelan County - 5	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
There is a typo on page 4, in section #2; it should read "interchange"	
Likes 0	
Dislikes 0	
Response	
Thank you for your support. The team has corrected the typo.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for your support.	
Casey Perry - PNM Resources - 1,3 - WECC,Texas RE	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
PNM and TNMP do not object to the proposed modifications to the term Reporting ACE or have any suggested modifications to the definition.	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	

Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Jessica Cordero - Unisource - Tucson Electric Power Co. - 1 - WECC	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Ben Hammer - Western Area Power Administration - 1	
Answer	No suggestions for the new modifications to the Reporting ACE definition.
Document Name	
Comment	
Likes 0	

Dislikes 0

Response

Thank you for your support.

3. Do industry members have any comments regarding the proposed ACE Diversity Interchange (ADI) definition? If so, please state in the comments section.

Ben Hammer - Western Area Power Administration - 1

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Thank you for your support.

Jessica Cordero - Unisource - Tucson Electric Power Co. - 1 - WECC

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Thank you for your support.

Duane Franke - Manitoba Hydro - 1,3,5,6 - MRO

Answer No suggestions for the proposed ADI definition.

Document Name

Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Casey Perry - PNM Resources - 1,3 - WECC,Texas RE	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
PNM and TNMP do not object to the proposed new term (ACE Diversity Interchange (ADI)) or have any suggested modifications to the proposed definition.	
Likes	0
Dislikes	0
Response	

Thank you for your support.	
Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Cain Braveheart - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
C. A. Campbell - LS Power Development, LLC - 5	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Scott McGough - Georgia System Operations Corporation - 3,4	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group	

Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Diana Torres - Imperial Irrigation District - 6	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Jennifer Bray - Arizona Electric Power Cooperative, Inc. - 1	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for your support.	
Sheila Suurmeier - Black Hills Corporation - 5	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Rachel Schuldt - Rachel Schuldt On Behalf of: Josh Combs, Black Hills Corporation, 5, 6, 1, 3; - Rachel Schuldt	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Claudine Bates - Black Hills Corporation - 6	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Micah Runner - Black Hills Corporation - 1	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Note: Draft 1 included the ADI definition but was deleted from the Draft 2 Clean and Redline versions that requested comments. No comments for this term as stated in Draft 1.	
Likes 0	
Dislikes 0	
Response	

Thank you for your comment. Draft one of the ACE Diversity Interchange (ADI) NERC Glossary of Term represents the initial comment and ballot period and is being balloted for the first time. The Inadvertent Interchange Management and Reporting Area Control Error NERC Glossary of Terms are on an additional comment and ballot period and being balloted for a second time.

Dwanique Spiller - Berkshire Hathaway - NV Energy - 5

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

Likes 0

Dislikes 0

Response

Thank you for your support.

Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter

Answer No suggestions for the proposed ADI definition.

Document Name

Comment

FirstEnergy has no objection to the proposed ACE Diversity Interchange (ADI) definition.

Likes 0

Dislikes 0

Response

Thank you for your support.

Adrian Andreoiu - BC Hydro and Power Authority - 1, Group Name BC Hydro

Answer No suggestions for the proposed ADI definition.

Document Name

Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Stephen Whaite - Stephen Whaite On Behalf of: Lindsey Mannion, ReliabilityFirst , 10; - Stephen Whaite, Group Name ReliabilityFirst Ballot Body Member and Proxies	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Thank you for your support.	
David Jendras Sr - Ameren - Ameren Services - 3	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Ameren agrees with and supports MISO's comments.	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Helen Lainis - Independent Electricity System Operator - 2	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	

Likes	0
Dislikes	0
Response	
Thank you for your support.	
Ken Habgood - Seminole Electric Cooperative, Inc. - 4	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Mark Gray - Edison Electric Institute - NA - Not Applicable - NA - Not Applicable	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
EEI does not object to the proposed new term (ACE Diversity Interchange (ADI)) or have any suggested modifications to the proposed definition.	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Rachel Coyne - Texas Reliability Entity, Inc. - 10	

Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Elizabeth Davis - Elizabeth Davis On Behalf of: Thomas Foster, PJM Interconnection, L.L.C., 2; - Elizabeth Davis, Group Name ISO/RTO Standards Review Committee	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	

Response	
Thank you for your support.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	No suggestions for the proposed ADI definition.
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Rebecca Zahler - Public Utility District No. 1 of Chelan County - 5	
Answer	Yes, there are suggestions for the proposed ADI definition.
Document Name	
Comment	

The definition should more explicitly say that the sum of exchanges or offsets should sum to zero rather than simply saying frequency neutral.

Likes 0

Dislikes 0

Response

Thank you for your comment. The drafting team addressed the need for ADI exchanges to sum to zero in the reporting ACE definition.

Tim Kelley - Tim Kelley On Behalf of: Charles Norton, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Fong Mua, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Nicole Looney, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Ryder Couch, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; Wei Shao, Sacramento Municipal Utility District, 3, 6, 4, 1, 5; - Tim Kelley, Group Name SMUD

Answer Yes, there are suggestions for the proposed ADI definition.

Document Name

Comment

SMUD appreciates the Standards Drafting Team creating a new definition for ADI but this definition requires additional changes to address the following concerns: 1) ADI is not a program but a pseudo interchange term added in the ACE calculation, and 2) ADI term should be defined only in the Net Actual Interchange term to make it standardized.

We propose the following new definition to addresses those concerns – “A frequency neutral pseudo interchange added into the Reporting ACE calculation as a part of the Actual Net Interchange component through offsetting all ADI program participating Balancing Authorities’ ACE to bring the Reporting ACE values closer to zero for each participant and achieving reductions in their generation control.”

Likes 0

Dislikes 0

Response

Thank you for your comment. The SDT determined that due to current industry practices, explicitly defining where in the Reporting ACE term an ADI value is to be included may conflict with currently implemented programs. Explicitly defining where the ADI term is to be included in the Reporting ACE term would not have any enhancements to reliability when the principles of ADI are followed.

Richard Vendetti - NextEra Energy - 5	
Answer	Yes, there are suggestions for the proposed ADI definition.
Document Name	
Comment	
FPL supports comments submitted by EEI for project 2022-01.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez	
Answer	Yes, there are suggestions for the proposed ADI definition.
Document Name	
Comment	
SRP supports SMUD and BANC comments for the ADI definition.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Gail Elliott - Gail Elliott On Behalf of: Michael Moltane, International Transmission Company Holdings Corporation, 1; - Gail Elliott	
Answer	Yes, there are suggestions for the proposed ADI definition.
Document Name	
Comment	

ITC supports EEI submitted comments

Likes 0

Dislikes 0

Response

Thank you for your support.

4. Please provide any additional comments for the drafting team to consider, if desired.	
Jodirah Green - ACES Power Marketing - 1,3,4,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name ACES Collaborators	
Answer	
Document Name	
Comment	
Thank you for the opportunity to comment.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Kennedy Meier - Electric Reliability Council of Texas, Inc. - 2	
Answer	
Document Name	
Comment	
ERCOT joins the comments submitted by the ISO/RTO Council (IRC) Standards Review Committee (SRC) and adopts them as its own. ERCOT also notes that there appears to be a typographical error in the definition for Reporting Area Control Error (Reporting ACE) , on page 4, Tie-Line Bias control principle #2, where the definition refers to “Interchnage” instead of “Interchange”	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The team corrected the errors.	

Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,8,9,10 - NPCC, Group Name NPCC RSC	
Answer	
Document Name	
Comment	
We support the modified definitions.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Mia Wilson - Southwest Power Pool, Inc. (RTO) - 2 - MRO,WECC	
Answer	
Document Name	
Comment	
With the modifications to Reporting Area Control Error (Reporting ACE), has the SDT considered the impacts to the industry and policies that would come through The Personnel Certification Governance Committee (PCGC) with regards to the NERC System Operator Certification Program?	
SPP also supports NSRF comments to fix a typographical error in the definition for Reporting Area Control Error (Reporting ACE) , on page 4, in Tie-Line Bias control principle #2: "Interchnage" should be "Interchange."	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. Regarding the Personnel Certification Governance Committee or PCGC, NERC staff will be coordinating with the PCGC committee.	

Israel Perez - Israel Perez On Behalf of: Jennifer Bennett, Salt River Project, 3, 1, 6, 5; Mathew Weber, Salt River Project, 3, 1, 6, 5; Sarah Blankenship, Salt River Project, 3, 1, 6, 5; Thomas Johnson, Salt River Project, 3, 1, 6, 5; Timothy Singh, Salt River Project, 3, 1, 6, 5; - Israel Perez

Answer	
Document Name	
Comment	
none.	
Likes 0	
Dislikes 0	

Response

Thank you for your support.

David Jendras Sr - Ameren - Ameren Services - 3

Answer	
Document Name	
Comment	
Ameren agrees with and supports MISO's comments.	
Likes 0	
Dislikes 0	

Response

Thank you for your support.

Pamela Frazier - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - MRO,WECC,Texas RE,SERC,RF, Group Name Southern Company

Answer	
---------------	--

Document Name	
Comment	
none	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Mark Garza - FirstEnergy - FirstEnergy Corporation - 4, Group Name FE Voter	
Answer	
Document Name	
Comment	
N/A	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Dwanique Spiller - Berkshire Hathaway - NV Energy - 5	
Answer	
Document Name	
Comment	
NV Energy appreciates the work done by the Standard Drafting Team to incorporate recommendations submitted.	

The only suggestion we have is to fix a typographical error in the definition for **Reporting Area Control Error (Reporting ACE)**, on page 4, in Tie-Line Bias control principle #2: “Interchange” should be “Interchange.”

Likes 0

Dislikes 0

Response

Thank you for your comment. The team corrected these errors.

Andy Thomas - Duke Energy - 1,3,5,6 - SERC,RF

Answer

Document Name

Comment

None.

Likes 0

Dislikes 0

Response

Thank you for your support.

Diana Torres - Imperial Irrigation District - 6

Answer

Document Name

Comment

None

Likes 0

Dislikes 0

Response	
Thank you for your support.	
Anna Martinson - MRO - 1,2,3,4,5,6 - MRO, Group Name MRO Group	
Answer	
Document Name	
Comment	
<p>The MRO NSRF appreciates the work done by the Standard Drafting Team to incorporate recommendations submitted.</p> <p>The only suggestion we have is to fix a typographical error in the definition for Reporting Area Control Error (Reporting ACE), on page 4, in Tie-Line Bias control principle #2: “Interchnage” should be “Interchange.”</p>	
Likes 0	
Dislikes 0	
Response	
Thank you for your comment. The team corrected these errors.	
Daniela Atanasovski - APS - Arizona Public Service Co. - 1	
Answer	
Document Name	
Comment	
AZPS does not have any additional comments and supports the proposed definitions.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	

Donna Wood - Tri-State G and T Association, Inc. - 1	
Answer	
Document Name	
Comment	
NA	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Casey Perry - PNM Resources - 1,3 - WECC,Texas RE	
Answer	
Document Name	
Comment	
No Additional Comments for PNM and TNMP.	
Likes 0	
Dislikes 0	
Response	
Thank you for your support.	
Steven Rueckert - Western Electricity Coordinating Council - 10, Group Name WECC	
Answer	
Document Name	
Comment	

WECC supports both revised definitions and the proposed new definition.	
Likes	0
Dislikes	0
Response	
Thank you for your support.	
Ben Hammer - Western Area Power Administration - 1	
Answer	
Document Name	
Comment	
typo in the definition for Reporting Area Control Error (Reporting ACE) , on page 4, in Tie-Line Bias control principle #2: “Interchnage” should be “Interchange.”	
Likes	0
Dislikes	0
Response	
Thank you for your comment. The team corrected these errors.	

End of Report

Reminder

Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Initial and Additional Ballots Open through October 30, 2023

[Now Available](#)

The initial ballot for the ACE Diversity Interchange (ADI) definition, and additional ballots for the Inadvertent Interchange Management – (IIM) and Reporting Area Control Error – (Reporting ACE) definitions are open through **8 p.m. Eastern Monday, October 30, 2023**.

Reminder Regarding Corporate RBB Memberships

Under the NERC Rules of Procedure, each entity and its affiliates is collectively permitted one voting membership per Registered Ballot Body Segment. Each entity that undergoes a change in corporate structure (such as a merger or acquisition) that results in the entity or affiliated entities having more than the one permitted representative in a particular Segment must withdraw the duplicate membership(s) prior to joining new ballot pools or voting on anything as part of an existing ballot pool. Contact ballotadmin@nerc.net to assist with the removal of any duplicate registrations.

Balloting

Members of the ballot pools associated with this project can log in and submit their votes by accessing the Standards Balloting and Commenting System (SBS) [here](#).

Note: Votes cast in previous ballots, will not carry over to additional ballots. It is the responsibility of the registered voter in the ballot pools to place votes again. To ensure a quorum is reached, if you do not want to vote affirmative or negative, cast an abstention.

- Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.
- Passwords expire every **6 months** and must be reset.
- The SBS is **not** supported for use on mobile devices.
- Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.

Next Steps

The ballot results will be announced and posted on the project page. The drafting team will review all responses received during the comment period and determine the next steps of the project.

For information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

North American Electric Reliability Corporation
3353 Peachtree Rd, NE
Suite 600, North Tower
Atlanta, GA 30326
404-446-2560 | www.nerc.com

Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Formal Comment Period Open through October 30, 2023
Ballot Pool Forming through October 13, 2023

[Now Available](#)

A formal comment period for **Project 2022-01 Reporting ACE Definition and Associated Terms**, is open through **8 p.m. Eastern, Monday, October 30, 2023**.

Commenting

Use the [Standards Balloting and Commenting System \(SBS\)](#) to submit comments. An unofficial Word version of the comment form is posted on the [project page](#).

Reminder Regarding Corporate RBB Memberships

Under the NERC Rules of Procedure, each entity and its affiliates is collectively permitted one voting membership per Registered Ballot Body Segment. Each entity that undergoes a change in corporate structure (such as a merger or acquisition) that results in the entity or affiliated entities having more than the one permitted representative in a particular Segment must withdraw the duplicate membership(s) prior to joining new ballot pools or voting on anything as part of an existing ballot pool. Contact ballotadmin@nerc.net to assist with the removal of any duplicate registrations.

Ballot Pools

Note: There is one new ballot pool forming for the ACE Diversity Interchange (ADI) definition through **8 p.m. Eastern, Friday, October 13, 2023**. Registered Ballot Body members can join the ballot pool [here](#).

- Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.
- Passwords expire every **6 months** and must be reset.
- The SBS is **not** supported for use on mobile devices.
- Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.

Next Steps

An initial ballot for the ACE Diversity Interchange (ADI) definition, and additional ballots for the Inadvertent Interchange Management – (IIM) and Reporting Area Control Error – (Reporting ACE) definitions will be conducted **October 20-30, 2023**.

For information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593. [Subscribe to this project's observer mailing list](#) by selecting "NERC Email Distribution Lists" from the "Service" drop-down menu and specify "Project 2022-01 Reporting ACE Definition and Associated Terms observer list" in the Description Box.

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[NERC Balloting Tool](#)

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[Login](#) / [Register](#)**Ballot Results**Comment: [View Comment Results](#)**Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms New - Inadvertent Interchange Management (IIM) AB 2 DEF**Voting Start Date:** 10/20/2023 12:01:00 AM**Voting End Date:** 10/30/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** AB**Ballot Series:** 2**Total # Votes:** 195**Total Ballot Pool:** 234**Quorum:** 83.33**Quorum Established Date:** 10/30/2023 12:32:32 PM**Weighted Segment Value:** 96.16

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	45	0.957	2	0.043	0	9	9
Segment: 2	8	0.7	7	0.7	0	0	0	0	1
Segment: 3	52	1	36	0.947	2	0.053	0	5	9
Segment: 4	9	0.4	4	0.4	0	0	0	1	4
Segment: 5	51	1	33	0.943	2	0.057	0	7	9
Segment: 6	43	1	30	0.938	2	0.063	0	4	7
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	160	5.385	8	0.215	0	27	39

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		None	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	Comments Submitted
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	Comments Submitted
5	Southern Company - Southern Company Generation	Leslie Burke		Negative	Comments Submitted
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	Comments Submitted
6	Evergy	Tiffany Lake	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A

Stephen

10	ReliabilityFirst	Lindsey Mannion	Whaite	Affirmative N/A
1	BC Hydro and Power Authority	Adrian Andreouiu		Affirmative N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		None N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Affirmative N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		None N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		None N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huit		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Fausto Serratos		None N/A
6	Los Angeles Department of Water and Power	Anton Vu		None N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		None N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward	Shannon Mickens	Affirmative N/A

4	Alliant Energy Corporation Services, Inc.	Larry Heckert		None	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		None	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Affirmative	N/A
2	ISO New England, Inc.	John Pearson		Affirmative	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Abstain	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Abstain	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		None	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		None	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		None	N/A
5	Platte River Power Authority	Jon Osell		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		Affirmative	N/A
6	Lakeland Electric	Paul Shippis		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Abstain	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Abstain	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Affirmative	N/A

6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		None	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza	Denise Sanchez	Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	Comments Submitted
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		None	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		Affirmative	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		Affirmative	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert	Donovan Crane	Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Abstain	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Affirmative	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray		Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	Comments Submitted

5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Affirmative	N/A
6	Imperial Irrigation District	Diana Torres	Denise Sanchez	Affirmative	N/A
5	National Grid USA	Robin Berry		Abstain	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		Affirmative	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Affirmative	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Affirmative	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee	Michael Johnson	Abstain	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		Affirmative	N/A
1	Puget Sound Energy, Inc.	Anna Lavik		Abstain	N/A
3	Exelon	Kinte Whitehead		None	N/A
1	Exelon	Daniel Gacek		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A

3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		Abstain	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		Abstain	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Abstain	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		None	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz	Denise Sanchez	Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		Abstain	N/A
6	Lincoln Electric System	Eric Ruskamp		None	N/A
3	Lincoln Electric System	Sam Christensen		None	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		None	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner	Denise Sanchez	Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		None	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Abstain	N/A
5	Orlando Utilities Commission	Dania Colon		Abstain	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		None	N/A
3	National Grid USA	Brian Shanahan		None	N/A
1	Entergy	Brian Lindsey		None	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A

5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis	Michael Johnson	Abstain	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		None	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Abstain	N/A
6	Portland General Electric Co.	Stefanie Burke		None	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		None	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		Affirmative	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		Affirmative	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms New - ACE Diversity Interchange (ADI) IN 1 ST

Voting Start Date: 10/20/2023 12:01:00 AM

Voting End Date: 10/30/2023 8:00:00 PM

Ballot Type: ST

Ballot Activity: IN

Ballot Series: 1

Total # Votes: 181

Total Ballot Pool: 220

Quorum: 82.27

Quorum Established Date: 10/30/2023 12:40:52 PM

Weighted Segment Value: 91.67

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	38	0.927	3	0.073	1	10	13
Segment: 2	6	0.5	5	0.5	0	0	0	1	0
Segment: 3	53	1	35	0.921	3	0.079	0	4	11
Segment: 4	9	0.5	4	0.4	1	0.1	0	1	3
Segment: 5	48	1	30	0.909	3	0.091	0	7	8
Segment: 6	33	1	23	0.885	3	0.115	0	3	4
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	220	5.5	140	5.042	13	0.458	1	27	39

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Platte River Power Authority	Marissa Archie		Abstain	N/A
1	National Grid USA	Michael Jones		Abstain	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		None	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		Affirmative	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		None	N/A
3	Eversource Energy	Vicki O'Leary		None	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
2	ISO New England, Inc.	John Pearson		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion	Stephen Whaite	Affirmative	N/A
5	Tennessee Valley Authority	Nehtisha Rollis		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		None	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Abstain	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		None	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
1	Puget Sound Energy, Inc.	Anna Lavik		Abstain	N/A

6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		Abstain	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward	Shannon Mickens	Affirmative	N/A
1	Sho-Me Power Electric Cooperative	Olivia Olson		None	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Negative	Comments Submitted
5	BC Hydro and Power Authority	Helen Hamilton Harding		Affirmative	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Negative	Comments Submitted
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Negative	Comments Submitted
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
6	Associated Electric Cooperative, Inc.	Brian Ackermann		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Negative	Comments

					Submitted
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
5	Oglethorpe Power Corporation	Donna Johnson		None	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Negative	Comments Submitted
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Negative	Comments Submitted
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
4	City Utilities of Springfield, Missouri	Jerry Bradshaw		Affirmative	N/A
3	BC Hydro and Power Authority	Alan Xu		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Affirmative	N/A
5	Lakeland Electric	Carmen Rodriguez		Affirmative	N/A
1	Lakeland Electric	Larry Watt		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		None	N/A
3	Lincoln Electric System	Sam Christensen		None	N/A
1	Lincoln Electric System	Josh Johnson		None	N/A
5	National Grid USA	Robin Berry		Abstain	N/A
6	Lincoln Electric System	Eric Ruskamp		None	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A

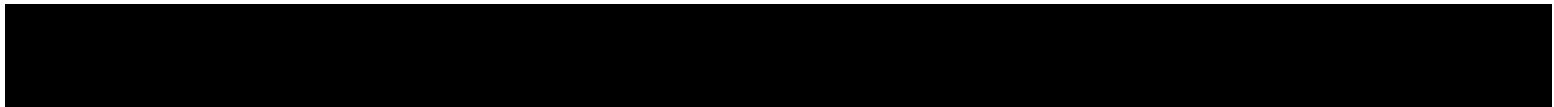
Alan

6	Evergy	Tiffany Lake	Kloster	Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
3	City Utilities of Springfield, Missouri	Jessica Morrissey		None	N/A
5	DTE Energy - Detroit Edison Company	Mohamad Elhusseini		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	JEA	Joseph McClung		None	N/A
3	JEA	Marilyn Williams		None	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		Affirmative	N/A
3	Lakeland Electric	Steven Marshall		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		None	N/A
3	Entergy	James Keele		Abstain	N/A
1	Oncor Electric Delivery	Byron Booker		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Negative	Comments Submitted
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz	Denise Sanchez	Affirmative	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
4	Buckeye Power, Inc.	Jason Procuniar	Ryan Strom	Affirmative	N/A
3	Buckeye Power, Inc.	Carl Spaetzel	Ryan Strom	Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
3	PNM Resources - Public Service Company of New Mexico	Amy Wesselkamper		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Eversource Energy	Joshua London		Abstain	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Negative	Comments Submitted
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		Affirmative	N/A

1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
1	Long Island Power Authority	Isidoro Behar		Abstain	N/A
1	U.S. Bureau of Reclamation	Richard Jackson		None	N/A
5	U.S. Bureau of Reclamation	Wendy Kalidass		Abstain	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
1	Lower Colorado River Authority	Matt Lewis		None	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
10	New York State Reliability Council	Wesley Yeomans		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Abstain	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
5	Imperial Irrigation District	Tino Zaragoza	Denise Sanchez	Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert	Donovan Crane	Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	No Comment Submitted
5	Buckeye Power, Inc.	Kevin Zemanek	Ryan Strom	Affirmative	N/A
5	Lower Colorado River Authority	Teresa Krabe		None	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Austin Energy	Thomas Standifur		None	N/A
3	Imperial Irrigation District	George Kirschner	Denise	Affirmative	N/A

			Sanchez		
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
1	Pedernales Electric Cooperative, Inc.	Bradley Collard		None	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Abstain	N/A
5	LS Power Development, LLC	C. A. Campbell		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
5	Salt River Project	Thomas Johnson	Israel Perez	Negative	Comments Submitted
3	Austin Energy	Lovita Griffin		None	N/A
6	Seminole Electric Cooperative, Inc.	Bret Galbraith		None	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee	Michael Johnson	Abstain	N/A
1	City Utilities of Springfield, Missouri	Michael Bowman		Affirmative	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Edison International - Southern California Edison Company	Selene Willis		None	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Affirmative	N/A
3	National Grid USA	Brian Shanahan		None	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis	Michael Johnson	Abstain	N/A
5	Platte River Power Authority	Jon Osell		Abstain	N/A
6	Lakeland Electric	Paul Shipps		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Abstain	N/A
6	Entergy	Julie Hall		None	N/A
1	Entergy	Brian Lindsey		None	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Negative	Comments Submitted
1	Exelon	Daniel Gacek		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Negative	Comments Submitted
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Negative	Comments Submitted
					Comments

6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Negative	Submitted
3	Tacoma Public Utilities (Tacoma, WA)	John Nierenberg	Jennie Wike	None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Abstain	N/A
3	CMS Energy - Consumers Energy Company	Karl Blaszkowski		None	N/A
5	NB Power Corporation - New Brunswick Power Transmission Corporation	Fon Hiew		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A



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Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Reporting Area Control Error (Reporting ACE) AB 2 DEF

Voting Start Date: 10/20/2023 12:01:00 AM

Voting End Date: 10/30/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: AB

Ballot Series: 2

Total # Votes: 194

Total Ballot Pool: 233

Quorum: 83.26

Quorum Established Date: 10/30/2023 12:32:45 PM

Weighted Segment Value: 92.8

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	43	0.915	4	0.085	0	8	9
Segment: 2	8	0.7	7	0.7	0	0	0	0	1
Segment: 3	52	1	35	0.921	3	0.079	0	5	9
Segment: 4	9	0.4	4	0.4	0	0	0	1	4
Segment: 5	51	1	31	0.886	4	0.114	0	7	9
Segment: 6	43	1	28	0.875	4	0.125	0	4	7
Segment: 7	0	0	0	0	0	0	0	0	0
Segment:									

8	0	0	0	0	0	0	0	0	0
Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	153	5.197	15	0.403	0	26	39

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		None	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	Comments Submitted
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	Comments Submitted
5	Southern Company - Southern Company Generation	Leslie Burke		Negative	Comments Submitted
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	Comments Submitted
6	Evergy	Tiffany Lake	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
5	Bonneville Power Administration	Christopher Siewert		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion	Stephen Whaite	Affirmative	N/A

6	WEC Energy Group, Inc.	David Boeshaar	Affirmative	N/A	
1	BC Hydro and Power Authority	Adrian Andreoiu	Negative	Comments Submitted	
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative	N/A	
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative	N/A	
6	Western Area Power Administration	Jennifer Neville	None	N/A	
6	Omaha Public Power District	Shonda McCain	Affirmative	N/A	
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Affirmative	N/A	
2	California ISO	Darcy O'Connell	Affirmative	N/A	
3	Bonneville Power Administration	Ron Sporseen	Affirmative	N/A	
1	Omaha Public Power District	Doug Peterchuck	Affirmative	N/A	
3	Manitoba Hydro	Mike Smith	None	N/A	
6	Bonneville Power Administration	Tanner Brier	Affirmative	N/A	
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative	N/A	
5	APS - Arizona Public Service Co.	Andrew Smith	Affirmative	N/A	
3	Ameren - Ameren Services	David Jendras Sr	Affirmative	N/A	
6	Ameren - Ameren Services	Robert Quinlivan	Affirmative	N/A	
3	Santee Cooper	Vicky Budreau	Affirmative	N/A	
5	Santee Cooper	Don Cribb	Affirmative	N/A	
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative	N/A	
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative	N/A	
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Affirmative	N/A	
1	Santee Cooper	Chris Wagner	Affirmative	N/A	
5	Ameren - Ameren Missouri	Sam Dwyer	Affirmative	N/A	
6	Santee Cooper	Marty Watson	Affirmative	N/A	
5	Dairyland Power Cooperative	Tommy Drea	None	N/A	
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative	N/A	
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative	N/A	
4	WEC Energy Group, Inc.	Matthew Beilfuss	Affirmative	N/A	
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Affirmative	N/A	
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative	N/A	
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative	N/A	
3	Avista - Avista Corporation	Robert Follini	Affirmative	N/A	
3	Los Angeles Department of Water and Power	Fausto Serratos	None	N/A	
1	Xcel Energy, Inc.	Eric Barry	Affirmative	N/A	
6	Los Angeles Department of Water and Power	Anton Vu	None	N/A	
1	Tri-State G and T Association, Inc.	Donna Wood	Affirmative	N/A	
5	Los Angeles Department of Water and Power	Glenn Barry	None	N/A	

3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		None	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward	Shannon Mickens	Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		None	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Affirmative	N/A
2	ISO New England, Inc.	John Pearson		Affirmative	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Abstain	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Abstain	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		None	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Negative	Comments Submitted
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Negative	Comments Submitted
5	Berkshire Hathaway - NV Energy	Dwanique Spiller		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		None	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		None	N/A
5	Platte River Power Authority	Jon Osell		Abstain	N/A
5	BC Hydro and Power Authority	Helen Hamilton Harding		Negative	Comments Submitted
1	IDACORP - Idaho Power Company	Sean Steffensen		Affirmative	N/A
6	Lakeland Electric	Paul Shipp		Affirmative	N/A

3	Platte River Power Authority	Richard Kiess		Abstain	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Abstain	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		None	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza	Denise Sanchez	Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	Comments Submitted
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Negative	Comments Submitted
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		None	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		Affirmative	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		Affirmative	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert	Donovan Crane	Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	Comments Submitted
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Negative	Third-Party Comments
1	National Grid USA	Michael Jones		Abstain	N/A
1	NextEra Energy - Florida Power and Light	Silvia Mitchell		Affirmative	N/A

	Co.				
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray		Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	Comments Submitted
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Affirmative	N/A
6	Imperial Irrigation District	Diana Torres	Denise Sanchez	Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Abstain	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		Affirmative	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Affirmative	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Affirmative	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Claudine Bates		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee	Michael Johnson	Abstain	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		Affirmative	N/A
3	Exelon	Kinte Whitehead		None	N/A
1	Exelon	Daniel Gacek		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A

3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		Abstain	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		Abstain	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Abstain	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		None	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz	Denise Sanchez	Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		Abstain	N/A
6	Lincoln Electric System	Eric Ruskamp		None	N/A
3	Lincoln Electric System	Sam Christensen		None	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		None	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner	Denise Sanchez	Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		None	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Abstain	N/A
5	Orlando Utilities Commission	Dania Colon		Abstain	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		None	N/A
3	National Grid USA	Brian Shanahan		None	N/A
1	Entergy	Brian Lindsey		None	N/A

3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Negative	Comments Submitted
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Negative	Comments Submitted
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis	Michael Johnson	Abstain	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		None	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Abstain	N/A
6	Portland General Electric Co.	Stefanie Burke		None	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		None	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny		None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		Affirmative	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		Affirmative	N/A



ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms Draft 3

The drafting team (DT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC *Glossary* term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new *Glossary* terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange – (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	Standards <ul style="list-style-type: none"> BAL-003-2 BAL-004-WECC-3 Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC	Capitalized terms in definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interconnection are excluded from Actual Net Interchange.	Interconnection are excluded from Actual Net Interchange.		Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE	Included in Reporting ACE definition.		New definition

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		components to create an ACE value closer to zero for each participant.			
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority’s net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an entity’s Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (<i>purpose</i>) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (<i>current; see proposed revisions</i>); • Disturbance Control Standard (<i>current; proposed for retirement</i>); • Frequency Bias 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based Resource Performance Guideline</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE for compliance purposes.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Setting (<i>current; see proposed revisions</i>); <ul style="list-style-type: none"> Reporting ACE (<i>current and proposed</i>) 		
Automatic Generation Control - (AGC)	A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	A process designed and used to adjust a Balancing Authority Area's Demand and resources to help maintain the Reporting ACE in that Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Joint Control; Regulating Reserve; Tie Line Bias (<i>current and revised</i>) 	Technical Reference Document: Balancing and Frequency Control Inverter-Based Resource Performance Guideline Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	Team reviewed and determined minor grammar changes.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
<p>Automatic Time Error Correction – (ATEC)</p>	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p>	<p>The addition of a component, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, “BA_{Island}” to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to reflect each Balancing</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$ $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. $Y = B_i / B_s$. 	<p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. 			<p>Authority's share of Time Error impact more accurately.</p> <p>Capitalized NERC defined terms.</p>

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	<ul style="list-style-type: none"> • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{actual} - B_i * \Delta TE/6)$ • II_{actual} is the hourly Inadvertent Interchange for the last hour. 	<ul style="list-style-type: none"> • $Y = B_i/B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz. 			

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	<ul style="list-style-type: none"> • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - (t) * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. • TE_{offset} is 0.000 or +0.020 or -0.020. • PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in 	<ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{\text{actual}} - B_i * \Delta TE/6) * BA_{\text{Island}}$ • BA_{Island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. II_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - t * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with 			

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	<p>MWh. An On-Peak and Off-Peak accumulation accounting is required, where:</p> $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	<p>Interconnection time monitor control center clocks.</p> <ul style="list-style-type: none"> t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the	Added Acronym	Standards <ul style="list-style-type: none"> BAL-003-2 COM-001-3 	Reliability Guideline: Operating Reserve Management	Added Acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

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	Balancing Authority. The Balancing Authority maintains load-resource balance within this area.		<ul style="list-style-type: none"> • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	
Balancing Contingency	Any single event described in Subsections (A), (B), or	Any single event described in Subsections (A), (B), or	Standards BAL-002-3	Reliability Guideline	Added acronym and updated to

Table 1: Retired, Modified, or Newly Proposed Definitions

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Event – (BCE)	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s ACE.</p>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s Reporting ACE.</p>	<p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>correct NERC defined term.</p>

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>			
<p>Control Performance Standard – (CPS)</p>	<p>The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.</p>	<p>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment A) <p>Terms None</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document:</p>	

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		and Scheduled Frequency.		Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs</p> <p>Methods for Establishing IROs</p>	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Standard (<i>proposed for retirement</i>); <ul style="list-style-type: none"> Disturbance Monitoring Equipment 	Reliability Guideline: Generating Unit Operations During Complete Loss of Communications Inverter-Based Resource Performance Guideline Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018 Load Composition Guideline Reliability Guideline: Model Verification of Aggregate DER	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	RETIRE	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	RETIRE
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ control ACE equations (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting ACE .	Standards • BAL-002-WECC-3 • INT-009-3 Terms Scheduled Net Interchange (NIS) <i>(current and proposed)</i>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Eliminated the word “equation” for consistency and eliminated the parenthetical which has no

Table 1: Retired, Modified, or Newly Proposed Definitions

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					known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority’s Area Control Error equation to account for the Balancing Authority’s inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority’s Reporting ACE to account for the Balancing Authority’s Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the Actual Frequency and the Scheduled Frequency. ($F_A - F_S$)	Standards: <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Term: <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled	The difference between the Balancing Authority's Actual Net Interchange and Scheduled Net Interchange.	Standards BAL-004-WECC-3 Terms	Technical Reference Document: Balancing and	Updated to correct NERC defined terms and correct acronyms.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interchange. (IA – IS)	(NI _A – NI _S)	<ul style="list-style-type: none"> Automatic Time Error Correction (I_{ATEC}) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	<p>Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The I _{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to	<p>Standards None</p> <p>Terms Reporting Ace (<i>proposed</i>)</p>		New term to NERC glossary

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		coordinate an inadvertent control methodology for an Interconnection.			
Interchange Meter Error - (IME)	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in Reporting ACE to compensate for data or equipment errors affecting any other components of Reporting ACE.	<p>Standards None</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word “calculation” for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction.	No changes	<p>Standards MOD-028-2</p> <p>Terms</p> <ul style="list-style-type: none"> Dynamic Interchange Schedule or Dynamic Schedule (<i>current and proposed</i>); Net Interchange 	Technical Reference Document: Balancing and Frequency Control Methods for Establishing IROLs	Team reviewed and determined no changes

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			Schedule <i>(proposed for retirement);</i> <ul style="list-style-type: none"> • Net Scheduled Interchange <i>(proposed for retirement);</i> • Ramp Rate or Ramp <i>(see proposed revisions);</i> • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias <i>(current and</i> 		

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			<i>proposed)</i>		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE .	Standards None Terms <ul style="list-style-type: none"> Reliability Adjustment; Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of:	The portion of Operating Reserve consisting of:	Standards BAL-002-WECC-3	Reliability Guideline: Operating Reserve	Utilized proper capitalization on terms that are not

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	<ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance recovery period following the contingency vent; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Terms None</p>	<p>Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	<p>NERC defined.</p>

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Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority's	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms None</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability	Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net Interchange” and

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Authority's actual interchange, frequency response, and schedules into providing Balancing Authority's AGC/ACE equation.	Actual Net Interchange, Scheduled Net Interchange, and response to Interconnection Frequency Error.		Standards	"response to Interconnection Frequency Error", to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed; no changes determined	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology and grammatical changes to improve understanding.

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Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE .	Standards <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 Terms Actual Net Interchange (<i>current and proposed</i>)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the Interchange Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications	Capitalized NERC defined terms within the definition.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Inverter-Based Resource Performance Guideline Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability	

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 <p>Terms</p> <ul style="list-style-type: none"> Overlap Regulation Service (<i>proposed</i>); 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

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	as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	as specified by NERC for itself and the Balancing Authority for which it is providing the corrective response .	<ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>) 		
Reporting Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction _(ATEC) . Reporting ACE is calculated as follows: Reporting ACE = (NI _A – NI _S) – 10B (F _A – F _S) – I _{ME}	The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows: Reporting ACE = (NI _A – NI _S) – 10B (F _A – F _S) – I _{ME} + I _{IM} Where: <ul style="list-style-type: none"> NI_A = Actual Net Interchange. NI_S = Scheduled Net Interchange. 	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 Terms <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); Pre-Reporting Contingency Event ACE Value; Pseudo-Tie 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias</p>	<ul style="list-style-type: none"> • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.) <ul style="list-style-type: none"> ◦ In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie Line Bias (TLB)</p>	<p><i>(current and proposed)</i></p>	<p>Process</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>(TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total Interconnection generation, load, and loss; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to 	<p>control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses; 2. The algebraic sum of all BAAs' Scheduled Net 			

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	<p>zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>	<p>Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times. This includes effects of ACE Diversity Interchange (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity's Reporting ACE that results in a loss of MW output less than or equal to its Most	<p>Standards BAL-002-3</p> <p>Terms Contingency Event Recovery Period</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Area</p>	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Moved note on modification of

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	<p>Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of the Most Severe Single Contingency , or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.</p> <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW • Quebec – 500 MW 	<p>Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or</p> <p>(ii) the amount listed below for the applicable Interconnection.</p> <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW 		Control Error Diversity Interchange Process	80% threshold for readability.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority's or reserve sharing group's most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	<p>Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i></p> <p>Terms None</p>		Retire
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority's use in recovering from contingencies within the	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority's use in recovering from contingencies within the group. Scheduling energy	<p>Standards</p> <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 <p>Terms Reserve Sharing</p>	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term "Operating Reserves" to accurately reflect current terminology. Replaced "disturbance control performance"

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas become a Reserve Sharing Group.	from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a Reportable Balancing Contingency Event , the areas become a Reserve Sharing Group.	Group Reporting ACE		with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group’s Reporting ACE to use the sum of the Balancing

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.			Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange - (NI_s)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and	Added acronym	Standards None Terms	Technical Reference Document: Balancing and	Added acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange.</p>		<p>Reporting ACE (<i>current and proposed</i>)</p>	<p>Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
Supplemental Regulation Service	<p>A method of providing regulation service in which the Balancing Authority</p>	<p>A method of providing Regulation Service in which the Balancing Authority</p>	Standards None		<p>Update to the NERC defined term “Reporting</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	Terms None		ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection Frequency Error.	Standards BAL-004-WECC-3 Terms Reporting ACE		Added acronym and capitalized defined terms.
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. The difference	Standards None Terms <ul style="list-style-type: none">Automatic Time Error Correction	Technical Reference Document: Balancing and Frequency Control Technical Reference	Added acronym commonly used and minor grammatical change to definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	caused by the accumulation of Frequency Error over a given period.	is caused by the accumulation of Frequency Error over a given period.	<p><i>(current and proposed);</i></p> <ul style="list-style-type: none"> Time Error Correction <i>(current and proposed)</i> 	Document: Integrating Reporting ACE with the NERC Reliability Standards	
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s Scheduled Frequency to return the Interconnection’s Time Error to a predetermined range.	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> Automatic Time Error Correction <i>(current and proposed);</i> Scheduled Frequency <i>(proposed)</i> 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p>	Added the word “manual” to indicate this process is not automatically implemented.

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms

Draft 3

The ~~standard~~-drafting team (SDT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The SDT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*SDT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange – (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all a Adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	Standards BAL-003-2 BAL-004-WECC-3 None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Capitalized terms in definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
<u>ACE Diversity Interchange (ADI)</u>		<u>A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.</u>	<u>Included in Reporting ACE definition.</u>		<u>New definition</u>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
<p>Area Control Error - (ACE)</p>	<p>The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.</p>	<p>The instantaneous difference between an entity's Actual Net Interchange (NI_A) and Scheduled Net Interchange (NI_S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I_{IM}) if operating in the I_{IM} mode. For compliance usage, refer to the term Reporting ACE.</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (<i>purpose</i>) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (<i>current; see proposed revisions</i>); • Disturbance Control Standard (<i>current; proposed for retirement</i>); • Frequency Bias Setting (<i>current; see proposed revisions</i>); 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based Resource Performance Guideline</p>	<p>The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE for compliance purposes.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Reporting ACE (<i>current and proposed</i>) 		
Automatic Generation Control - (AGC)	A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	A process designed and used to adjust a Balancing Authority Area's Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> Joint Control; Regulating Reserve; Tie Line Bias (<i>current and revised</i>) 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	Team reviewed and determined minor grammar changes .
Automatic Time Error Correction – (ATEC)	The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent	The addition of a component , represented by the term I_{ATEC} , to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and</i></p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p>	Re-organized published glossary terms to reflect changes made during the standard drafting

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ when operating in Automatic Time Error Correction Mode. <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2* B_i$ and L_{10}, $0.2* B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean- 	<p>paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2* B_i$ and L_{10}; i.e. $0.2* B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean- 	<p><i>proposed)</i></p>	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>process.</p> <p>Published term was unreadable.</p> <p>Added an islanding term, "BA_{Island}" to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to more accurately reflect each Balancing Authority's share of Time Error impact more accurately.</p>

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NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1 - Y) * (I_{actual} - B_i * \Delta TE / 6)$ 	<p>square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, <u>the annual time weighted average FBS based on the one minute values used in</u> 			<p>Capitalized NERC defined terms.</p>

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	<ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - (t) * (TE_{offset})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. • TE_{offset} is 0.000 or +0.020 or -0.020. • PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in 	<p><u>BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</u></p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1 - Y) * (I_{actual} - B_i * \Delta TE / 6) * BA_{Island}$ <p>BA_{Island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected.</p> <ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - t * (TE_{offset})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with 			

Table 1: Retired, Modified, or Newly Proposed Definitions

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	<p>MWh. An On-Peak and Off-Peak accumulation accounting is required, where:</p> $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	<p>Interconnection time monitor control center clocks.</p> <ul style="list-style-type: none"> t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$			
<p>Balancing Authority Area (BAA)</p>	<p>The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains</p>	<p>Added Acronym</p>	<p>Standards</p> <ul style="list-style-type: none"> BAL-003-2 COM-001-3 EOP-004-4 EOP-011-1 	<p>Reliability Guideline: Operating Reserve Management</p>	<p>Added Acronym</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	load-resource balance within this area.		<ul style="list-style-type: none"> • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Balancing Contingency Event – (BCE)	<p>Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation:</p> <p>a. Due to</p> <p>i. unit tripping, or</p> <p>ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or</p> <p>iii. sudden unplanned outage of transmission Facility;</p> <p>b. And, that causes an unexpected change to the responsible entity’s ACE;</p>	<p>Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation:</p> <p>a. Due to</p> <p>i. unit tripping, or</p> <p>ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or</p> <p>iii. sudden unplanned outage of transmission Facility;</p> <p>b. And, that causes an unexpected change to the responsible entity’s Reporting ACE;</p>	<p>Standards BAL-002-3</p> <p>Terms</p> <ul style="list-style-type: none"> Contingency Reserve; Most Severe Single Contingency; Reportable Balancing Contingency Event 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Added acronym and updated to correct NERC defined term.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>			
Control Performance Standard – (CPS)	The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.	Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance and Scheduled Frequency.	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 (Attachment A) <p>Terms None</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control Standard (<i>proposed for retirement</i>); 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs</p> <p>Methods for Establishing IROs</p> <p>Reliability Guideline: Generating Unit</p>	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Disturbance Monitoring Equipment 	<p>Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018</p> <p>Load Composition Guideline</p> <p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>Power Plant Model</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Verification and Testing for Synchronous Machines</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p> <p>Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	Retire	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Retire
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ control ACE equations (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIs) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting ACE	Standards <ul style="list-style-type: none"> BAL-002-WECC-3 INT-009-3 Terms Scheduled Net Interchange (NIs) (<i>current and proposed</i>)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Eliminated the word “equation” for consistency and eliminated the parenthetical which has no known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a	A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a	Standards <ul style="list-style-type: none"> BAL-001-2 	Reliability Guideline: Operating Reserve	Added language to indicate this value must be a

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Balancing Authority’s Area Control Error equation to account for the Balancing Authority’s inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	Balancing Authority’s Reporting ACE to account for the Balancing Authority’s Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.	<ul style="list-style-type: none"> BAL-003-2 Terms Reporting ACE (<i>current and proposed</i>)	Management Technical Reference Document: Balancing Authority Area Footprint Change Tasks Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the actual frequency and the Scheduled Frequency. ($F_A - F_S$)	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Control Performance Standard Reporting ACE 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> • Frequency Regulation; • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>) 		
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. (IA – IS)	The difference between the Balancing Authority's Actual Net Interchange and Scheduled Net Interchange. (NI _A – NI _S)	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); • Dynamic Transfer; • Primary Inadvertent Interchange 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Reliability Guideline: Inadvertent	Updated to correct NERC defined terms and correct acronyms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			(WECC)	Interchange	
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. <u>The I_{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.</u>	Standards None Terms Reporting Ace (proposed)		New term to NERC glossary
Interchange Meter Error –(I_{ME})	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in Reporting ACE to compensate for data or equipment errors affecting any other components of Reporting ACE.	Standards None Terms Reporting ACE (current and proposed)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word “calculation” for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and	No changes	Standards MOD-028-2 Terms	Technical Reference Document: Balancing and Frequency Control	Team reviewed, and determined no changes <u>determined</u>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction.		<ul style="list-style-type: none"> • Dynamic Interchange Schedule or Dynamic Schedule (<i>current and proposed</i>); • Net Interchange Schedule (<i>proposed for retirement</i>); • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling 	Methods for Establishing IROLs	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Entity; <ul style="list-style-type: none"> Sink Balancing Authority; Source Balancing Authority; Tie Line Bias (current and proposed) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE.	Standards None Terms <ul style="list-style-type: none"> Reliability Adjustment; Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Actual Interchange	The algebraic sum of all metered interchange over all interconnections between two physically Adjacent Balancing Authority Areas.	Retire	Standards BAL-003-2-None BAL-004-WECC-3 Terms Inadvertent	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>Interchange (current; see proposed revision)</i>		
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Power Plant Model	Utilized proper capitalization on terms that are not NERC defined.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Period following the contingency event.	period following the contingency event.		Verification for Inverter-Based Resources	
Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing Authority’s actual interchange, frequency response, and schedules into	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority’s Actual Net Interchange, Scheduled Net	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms None</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net Interchange” and “response to

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	providing Balancing Authority’s AGC/ACE equation.	Interchange, and response to Interconnection Frequency Error.			Interconnection Frequency Error”, to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed, no changes and determined no changes	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology and grammatical changes to improve understanding.
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities’ Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities’ Reporting ACE .	Standards <ul style="list-style-type: none"> BAL-005-1 BAL-002-WECC-3 INT-009-3 Terms Actual Net Interchange	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word “equation” for consistency and eliminated the parenthetical which has no known application.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>(current and proposed)</i>		
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the I nterchange S chedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications Inverter-Based Resource Performance Guideline Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants	Capitalized NERC defined terms within the definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Inverter-Based Resources	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the corrective response.	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms <ul style="list-style-type: none"> Overlap Regulation Service (<i>proposed</i>); Supplemental Regulation Service (<i>proposed</i>) 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	
Reporting Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for	The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows:	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 Terms <ul style="list-style-type: none"> Automatic Generation 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction_(ATEC). Reporting ACE is calculated as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. 	<p>Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME} + I_{IM}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management (Term is expressed if a regional procedure exists, otherwise is null and does is not need to be included in the Balancing Authority's Reporting ACE.) <ul style="list-style-type: none"> ○ In the Western Interconnection this term is I_{ATEC} 	<p>Control;</p> <ul style="list-style-type: none"> • Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); • Pre-Reporting Contingency Event ACE Value; • Pseudo-Tie (<i>current and proposed</i>) 	<p>Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Inadvertent Interchange accumulations.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total Interconnection generation, load, and loss; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero 	<p>All NERC Interconnections operate using the principles of Tie-Line Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>	<p>zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times This includes effects of ACE Diversity Interchange (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p><u>4.</u> Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most Severe Single	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity's Reporting ACE that results in a loss of MW output less than or equal to its	Standards BAL-002-3 Terms Contingency Event Recovery Period	Reliability Guideline: Operating Reserve Management Technical Reference	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Contingency , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of the Most Severe Single Contingency , or (ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity. <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW • Quebec – 500 MW 	<p>Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Reliability Organization(s)Entity, or (ii) the amount listed below for the applicable Interconnection. <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW 		<p>Document: Area Control Error Diversity Interchange Process</p>	<p>Moved note on modification of 80% threshold for readability.</p>
Reportable Disturbance	Any event that causes ACE change greater than or equal to	Retire	Standards CIP-002-5.1		Retire

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	80% of a Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.		<i>(outdated reference in G&TB)</i> Terms None		
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is	Standards <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 Terms Reserve Sharing Group Reporting ACE	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced “disturbance control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas become a Reserve Sharing Group.	ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a Reportable Balancing Contingency Event, the areas become a Reserve Sharing Group.			
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group's Reporting ACE to use the sum of the Balancing Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<p>ACE (<i>current and proposed</i>);</p> <ul style="list-style-type: none"> • Time Error Correction (<i>proposed</i>) 	Reporting ACE with the NERC Reliability Standards	defined glossary terms.
Scheduled Net Interchange - (NI_s)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange.	Added acronym	<p>Standards None</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	Added acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Guideline: Inadvertent Interchange	
Supplemental Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	Standards None Terms None		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection Frequency Error.	Standards BAL-004-WECC-3 Terms Reporting ACE		Added acronym and capitalized defined terms.
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards	Standards None Terms <ul style="list-style-type: none">Automatic	Technical Reference Document: Balancing and Frequency Control	Added acronym commonly used and minor grammatical change to

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	and Technology. The difference is caused by the accumulation of Frequency Error over a given period.	Time Error Correction (<i>current and proposed</i>); • Time Error Correction (<i>current and proposed</i>)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	definition.
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s Scheduled Frequency to return the Interconnection’s Time Error to a predetermined range.	Standards BAL-004-WECC-3 Terms • Automatic Time Error Correction (<i>current and proposed</i>); • Scheduled Frequency (<i>proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms

Draft ~~31~~

The drafting team (DT) is seeking comment on the following new ~~or~~, modified, ~~or retired~~ terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC *Glossary* term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new *Glossary* terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or Glossary terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange (NI_A) - (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all a Adjacent Balancing Authority A areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	Standards <ul style="list-style-type: none"> BAL-003-2 BAL-004-WECC-3 None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC	Capitalized terms in definition.

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Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interconnection are excluded from Actual Net Interchange.	Interconnection are excluded from Actual Net Interchange.		Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled	Included in Reporting ACE definition.		New definition

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		Net Interchange ACE components to create an ACE value closer to zero for each participant.			
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an Balancing Authority's entity's net <u>Actual Net Interchange (NI_A)</u> and S <u>Scheduled Net Interchange (NI_S)</u> , taking into account the effects of Frequency Bias, of <u>of</u> correction for meter error, and of Automatic Time Error Correction (ATEC) <u>Inadvertent Interchange Management (IIM)</u> ; if operating in the IIM <u>ATEC</u> mode. For compliance usage, refer to the term Reporting ACE. ATEC is only applicable to	Standards <ul style="list-style-type: none"> BAL-002-3 (<i>purpose</i>) BAL-003-2 BAL-005-1 Terms <ul style="list-style-type: none"> Control Performance Standard (<i>current; see proposed revisions</i>); Disturbance Control Standard (<i>current; proposed for</i> 	Reliability Guideline Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process Inverter-Based	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		Balancing Authorities in the Western Interconnection.	<p>retirement);</p> <ul style="list-style-type: none"> • Frequency Bias Setting (<i>current; see proposed revisions</i>); • Reporting ACE (<i>current and proposed</i>) 	Resource Performance Guideline	for compliance purposes.
Automatic Generation Control - (AGC)	A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	A process designed and used to adjust a Balancing Authority Area's Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and revised</i>) 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based</p>	Team reviewed and determined minor grammar changes .

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Resources	
Automatic Time Error Correction – (ATEC)	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p>	<p>The addition of a component to, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct accumulated Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, “BA_{island}” to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$ $L_{10} = 1.65 * \frac{\epsilon_{10} \sqrt{(-10B_i)(-10B_s)}}{\epsilon_{10}}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority 	<p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Ffrequency eError based on frequency performance over a given year. The 			<p>actual Bias settings to- reflect each Balancing Authority's share of Time Error impact more accurately.</p> <p>Capitalized NERC defined terms.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE/6)$ 	<p>bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • -H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • -B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW/0.1 Hz). <u>For entities with a variable Frequency Bias, the annual time weighted average FBS based on</u> 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta\text{TE} = \text{TE}_{\text{end hour}} - \text{TE}_{\text{begin hour}} - \text{TD}_{\text{adj}} - (t) * (\text{TE}_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. 	<p><u>the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</u></p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange ($\text{PII}_{\text{hourly}}$) is $(1-Y) * (I_{\text{actual}} - B_i * \Delta\text{TE}/6) * B_{\text{Island}}$ • B_{Island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. • $-I_{\text{actual}}$ is the hourly Inadvertent Interchange for the last hour. • $-\Delta\text{TE}$ is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off-Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	$\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - (t) * (TE_{offset})$ <ul style="list-style-type: none"> TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. t is the number of minutes <u>spent performing -of</u> manual Time Error Correction that occurred during <u>each</u> hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		$PI_{accum}^{on/offpeak} = \text{last period's } PI_{accum}^{on/offpeak} +$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The	Added Acronym	Standards <ul style="list-style-type: none"> BAL-003-2 COM-001-3 	Reliability Guideline: Operating Reserve Management	Added Acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Balancing Authority maintains load-resource balance within this area.		<ul style="list-style-type: none"> • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	
Balancing Contingency	Any single event described in Subsections (A), (B), or	Any single event described in Subsections (A), (B), or	Standards BAL-002-3	Reliability Guideline	Added acronym and updated to

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Event – <u>(BCE)</u>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity's System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to</p>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity's System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity's Reporting ACE.</p>	<p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>correct NERC defined term.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>the responsible entity's ACE.</p> <p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's <u>Reporting</u> ACE.</p>			
Control Performance Standard = (CPS)	The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.	<u>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient</u>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 (Attachment A) 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		secondary AGC control to maintain energy balance and Scheduled Frequency.	Terms None	Reference Document: Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	Standards <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 Terms	Reliability Guideline: Operating Reserve Management Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Disturbance Control Standard <i>(proposed for retirement)</i>; Disturbance Monitoring Equipment 	<p>Methods for Establishing IROs</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018</p> <p>Load Composition Guideline</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>Power Plant Model Verification and Testing for Synchronous Machines</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p> <p>Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	RETIRE	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	RETIRE
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NI _s) term in the same manner as an	Standards <ul style="list-style-type: none"> BAL-002-WECC-3 INT-009-3 	Technical Reference Document: Integrating Reporting ACE with the NERC	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	the affected Balancing Authorities' control ACE equations (or alternate control processes).	Interchange Schedule in the affected Balancing Authorities' Reporting control ACE equations (or alternate control processes).	Terms Scheduled Net Interchange (NIs) <i>(current and proposed)</i>	Reliability Standards	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A <u>negative</u> number either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error Reporting ACE equation to account for the Balancing Authority's inverse -Frequency Response contribution to the Interconnection Frequency Error , and discourage response withdrawal through secondary control systems.	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms Reporting ACE <i>(current and proposed)</i>	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing Authority Area Footprint Change Tasks Technical Reference Document: Integrating	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reporting ACE with the NERC Reliability Standards	
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the A actual F frequency and the S scheduled # frequency. ($F_A - F_S$)	Standards: <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Term: <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>(proposed)</i>		
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. (IA – IS)	The difference between the Balancing Authority's Net Actual Net Interchange and Net Scheduled Net Interchange. (NI _A – NI _S)	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Reliability Guideline: Inadvertent Interchange	Updated to correct NERC defined terms and correct acronyms.
Inadvertent Interchange Management – (IIM)	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange	Standards None Terms		New term to NERC glossary

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<u>and correction of Time Error. The I_{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.</u>	Reporting Ace (proposed)		
Interchange Meter Error - (IME)	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation .	Standards None Terms Reporting ACE (current and proposed)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word “calculation” for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of	No changes	Standards MOD-028-2 Terms <ul style="list-style-type: none"> Dynamic Interchange 	Technical Reference Document: Balancing and Frequency Control Methods for	Team reviewed and determined no changes

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	power and energy between the Source and Sink Balancing Authorities involved in the transaction.		<p>Schedule or Dynamic Schedule (<i>current and proposed</i>);</p> <ul style="list-style-type: none"> • Net Interchange Schedule (<i>proposed for retirement</i>); • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling Entity; 	Establishing IROs	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Sink Balancing Authority; Source Balancing Authority; Tie Line Bias (<i>current and proposed</i>) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE Area Control Error equation.	Standards None Terms <ul style="list-style-type: none"> Reliability Adjustment; Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance rRecovery Pperiod following the Ccontingency event; or • Load fully removable from the system within the Disturbance rRecovery Pperiod following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Rrecovery pPeriod following the contingency event; or • Load fully removable from the system within the Disturbance Rrecovery pPeriod following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing	A method of providing R egulation S ervice in which the Balancing Authority providing the R egulation S ervice incorporates into it sits	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms</p>	<p>Technical Reference Document: Integrating Reporting ACE with the NERC</p>	Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Authority's actual interchange, frequency response, and schedules into providing Balancing Authority's AGC/ACE equation.	Reporting ACE a receiving another -Balancing Authority's A actual Net i Interchange, frequency response and S scheduled Net i Interchange, and response to Interconnection Frequency Error. into providing Balancing Authority's AGC /ACE equation.	None	Reliability Standards	Interchange" and "response to Interconnection Frequency Error", to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed; no changes determined	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology and grammatical changes to improve understanding.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	Standards <ul style="list-style-type: none"> BAL-005-1 BAL-002-WECC-3 INT-009-3 Terms Actual Net Interchange (<i>current and proposed</i>)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the i nterchange s chedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications	Capitalized NERC defined terms within the definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Inverter-Based Resource Performance Guideline</p> <p>Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants</p> <p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms <ul style="list-style-type: none"> Overlap Regulation Service 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation <u>corrective response Service</u> .	<p><i>(proposed)</i>;</p> <ul style="list-style-type: none"> Supplemental Regulation Service <i>(proposed)</i> 		
Reporting ACE Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction(ATEC).	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW, <u>which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction</u>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (IME) <i>(current and proposed)</i>; Pre-Reporting 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference</p>	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Reporting ACE is calculated as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. 	<p>for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction (I_{ATEC}). Reporting ACE is calculated as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. 	<p>Contingency Event ACE Value;</p> <ul style="list-style-type: none"> • Pseudo-Tie (current and proposed) 	<p>Document: Area Control Error Diversity Interchange Process</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <p>1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total</p>	<ul style="list-style-type: none"> • F_s = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{MATEC} = Automatic Time Error Correction Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.) • In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation</p>			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Interconnection generation, load, and loss;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>	<p>similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs in an an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <p>1. All <u>Each individual</u> portions of the Interconnection are <u>is</u> included in exactly one BAA so that the sum of all BAAs' generation, L <u>load</u>, and losses is the same as total Interconnection generation, L <u>load</u>, and losses;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net</p>			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<p>Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times. <u>This includes effects of ACE Diversity Interchange (ADI) implementations;</u></p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME}ME term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in <u>the responsible entity's Reporting ACE</u> that results in a loss of MW output less	Standards BAL-002-3 Terms Contingency Event Recovery Period	Reliability Guideline: Operating Reserve Management Technical Reference	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Moved note on

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>than or equal to the Most Severe Single Contingency, and greater than or equal to the lesser amount of:</p> <p>(i) 80% of the Most Severe Single Contingency, or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.</p> <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW 	<p>than or equal to its Most Severe Single Contingency (<u>MSSC</u>), and greater than or equal to the lesser amount of:</p> <p>(i) 80% of its MSSC. <u>Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity</u>, or</p> <p>(ii) the amount listed below for the applicable Interconnection. <u>Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity.</u></p>		Document: Area Control Error Diversity Interchange Process	modification of 80% threshold for readability.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> Quebec – 500 MW 	<ul style="list-style-type: none"> Eastern Interconnection: 900 MW Western Interconnection: 500 MW ERCOT: 800 MW Quebec: 500 MW 			
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i> Terms None		Retire

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating R eserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly er (e.g., between zero and ten minutes) then, for the purposes of recovery from <u>a Reportable Balancing</u>	<p>Standards</p> <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 <p>Terms</p> <p>Reserve Sharing Group Reporting ACE</p>	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced “disturbance control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	purposes of disturbance control performance, the areas become a Reserve Sharing Group.	Contingency Event disturbance control performance , the areas become a Reserve Sharing Group.			
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group's Reporting ACE to use the sum of the Balancing Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60. 00 Hertz, except during a Time Error e Correction	Standards • BAL-001-2 • MOD-027-1 Terms	Reliability Guideline: Operating Reserve Management Technical Reference	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> • Frequency Regulation; • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>) 	Document: Integrating Reporting ACE with the NERC Reliability Standards	Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange (NIs) (NIs)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are	Added acronym	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical	Added acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	excluded from Scheduled Net Interchange.			Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
Supplemental Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	A method of providing R egulation S ervice in which the Balancing Authority providing the R egulation S ervice receives a signal representing all or a portion of the other Balancing Authority's R eporting ACE.	Standards None Terms None		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that	A mode of Automatic Generation Control that	Standards BAL-004-WECC-3		Added acronym and capitalized defined terms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency e Error.	Terms Reporting ACE		
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error The <u>difference</u> is caused by the accumulation of Frequency Error over a given period.	Standards None Terms • Automatic Time Error Correction (<i>current and proposed</i>); • Time Error Correction (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added acronym commonly used and minor grammatical change to definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s S scheduled F frequency to return the Interconnection’s Time Error to a predetermined range value.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<i>current and proposed</i>); Scheduled Frequency (<i>proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

Implementation Plan

Project 2022-01 Reporting ACE Definition and Associated Terms

Definitions of Terms included in the *Glossary of Terms used in NERC Reliability Standards*

Proposed New, Modified, and Retired Terms in the NERC Glossary

This section includes all newly defined or revised terms proposed for inclusion in the *Glossary of Terms used in NERC Reliability Standards* (“*Glossary*”), as well as current NERC *Glossary* terms proposed for retirement. The new and revised definitions are included in **Appendix**.

No changes to the Reliability Standards in which these terms are used are proposed as part of Project 2022-01.

Proposed New Definition(s):

- ACE Diversity Interchange
- Inadvertent Interchange Management (I_{IM})

Proposed Modified Definition(s):

- Actual Net Interchange (NI_A)
- Area Control Error (ACE)
- Automatic Generation Control (AGC)
- Automatic Time Error Correction (ATEC)
- Balancing Authority Area (BAA)
- Balancing Contingency Event (BCE)
- Control Performance Standard (CPS)

- Disturbance
- Dynamic Interchange Schedule or Dynamic Schedule
- Frequency Bias Setting (FBS)
- Frequency Error
- Implemented Interchange
- Inadvertent Interchange
- Interchange Meter Error $-(I_{ME})$
- Operating Reserve – Spinning
- Operating Reserve – Supplemental
- Overlap Regulation Service
- Pseudo-Tie
- Ramp Rate or Ramp
- Regulation Service
- Reportable Balancing Contingency Event (RBCE)
- Reporting Area Control Error (Reporting ACE)
- Reserve Sharing Group (RSG)
- Reserve Sharing Group Reporting ACE
- Scheduled Frequency
- Scheduled Net Interchange (NIs)
- Supplemental Regulation Service
- Tie Line Bias (TLB)
- Time Error (TE)

- Time Error Correction (TEC)

Proposed Retirement(s) of Approved Definition(s):

- Disturbance Control Standard
- Net Interchange Schedule
- Net Scheduled Interchange
- Reportable Disturbance

Background

Project 2022-01 Reporting Ace Definition and Associated Terms was initiated in February 2022 to address an issue, identified by the Resources Subcommittee of the NERC Reliability and Security Technical Committee, regarding the current definition of the NERC defined term Reporting ACE. Specifically, the Resources Subcommittee identified a conflict in the current definition of Reporting ACE with the Western Interconnection’s Automatic Time Error Correction process. The Resources Subcommittee recommended making the Automatic Time Error Correction (ATEC) term generic to allow all Interconnections to implement an automated time error correction process and also revising related defined terms for consistency and clarity.

General Considerations

The Project 2022-01 standard drafting team has proposed one new definition for inclusion in the NERC *Glossary*, revisions to several defined terms, and the retirement of several approved terms that are no longer used in any NERC Reliability Standard or defined term or would no longer be used in any defined term following approval of other revised definitions that currently use those terms. Significant revisions are proposed to the definitions of several terms, such as Area Control Error and Reporting Area Control Error – Reporting ACE, that may require entities to update their documentation and related compliance materials. Other revisions are clarifying in nature, such as the proposed revisions to the definition for the term Time Error (TE). The standard drafting team also proposes revisions to the definitions of certain terms so that less-used defined terms used within those terms may be retired. For ease of implementation and to avoid administrative burden, a twelve month implementation period for all new, revised, and retired terms is proposed.

Effective Date for all New and Revised Definitions for NERC *Glossary* Terms

Where approval by an applicable governmental authority is required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the effective date of the applicable governmental authority’s order approving the definitions, or as otherwise provided for by the applicable governmental authority.

Where approval by an applicable governmental authority is not required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the date the definitions are adopted by the NERC Board of Trustees, or as otherwise provided for in that jurisdiction.

Retirement Date

Currently Effective Definitions

The currently effective definitions of the revised defined terms, as well as the defined terms Disturbance Control Standard, Net Interchange Schedule, Net Scheduled Interchange, and Reportable Disturbance shall be retired immediately prior to the effective date of the revised definitions in the particular jurisdiction in which the revised definitions are becoming effective.

Appendix: New, Revised, and Retired Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
<p>Actual Net Interchange – (NI_A)</p>	<p>The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.</p>
<p>ACE Diversity Interchange (ADI)</p>	<p>A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.
Area Control Error - (ACE)	The instantaneous difference between an entity's Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.
Automatic Generation Control - (AGC)	Standards BAL-004-WECC-3 Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and revised</i>)
<p>Automatic Time Error Correction – (ATEC)</p>	<p>The addition of a component , represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> • L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. • $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ • ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE / 6) * BA_{island}$ • BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>Interconnection time monitor, where:</p> $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - t * (TE_{\text{offset}})$ <ul style="list-style-type: none"> ○ TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. ○ t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. ○ TE_{offset} is 0.000 or +0.020 or -0.020. ○ PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>accounting is required, where:</p> $PI_{accum}^{on/offpeak} = \text{last period's } PI_{accum}^{on/offpeak}$
Balancing Authority Area (BAA)	Added Acronym
Balancing Contingency Event – (BCE)	Standards BAL-002-3 Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event
Control Performance Standard – (CPS)	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment A) Terms None
Disturbance	Standards <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control Standard <i>(proposed for retirement)</i>; • Disturbance Monitoring Equipment
Disturbance Control Standard – (DCS)	<p>Standards BAL-002-3</p> <p>Terms None</p>
Dynamic Interchange Schedule or Dynamic Schedule	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-WECC-3 • INT-009-3 <p>Terms</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Scheduled Net Interchange (NIs) <i>(current and proposed)</i>
Frequency Bias Setting (FBS)	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms Reporting ACE <i>(current and proposed)</i>
Frequency Error	Standards: <ul style="list-style-type: none"> • BAL-001-2 • MOD-027-1 Term: <ul style="list-style-type: none"> • Control Performance Standard • Reporting ACE • Frequency

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Regulation; <ul style="list-style-type: none"> • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>)
Inadvertent Interchange	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); • Dynamic Transfer; • Primary Inadvertent Interchange (WECC)
Inadvertent Interchange	Standards None

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Management – (I_{IM})	Terms Reporting Ace <i>(proposed)</i>
Interchange Meter Error - (I_{ME})	Standards None Terms Reporting ACE <i>(current and proposed)</i>
Interchange Schedule	Standards MOD-028-2 Terms <ul style="list-style-type: none"> • Dynamic Interchange Schedule or Dynamic Schedule <i>(current and proposed);</i> • Net Interchange Schedule <i>(proposed for</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p><i>retirement</i>);</p> <ul style="list-style-type: none"> • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias (<i>current and proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Implemented Interchange	<p>Standards None</p> <p>Terms</p> <ul style="list-style-type: none"> • Reliability Adjustment; • Arranged Interchange
Net Interchange Schedule	<p>Standards None</p> <p>Terms None</p>
Net Scheduled Interchange	<p>Standards None</p> <p>Terms None</p>
Operating Reserve – Spinning	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Operating Reserve – Supplemental	Standards BAL-002-WECC-3 Terms None
Overlap Regulation Service	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms None
Pre-Reporting Contingency Event ACE Value	Standards BAL-002-3 Terms None

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Pseudo-Tie	<p>Standards</p> <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 <p>Terms Actual Net Interchange <i>(current and proposed)</i></p>
Ramp Rate or Ramp	<p>Standards None</p> <p>Terms Response Rate</p>
Regulation Service	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms</p> <ul style="list-style-type: none"> • Overlap Regulation Service <i>(proposed)</i>;

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>)
Reporting Area Control Error – (Reporting ACE)	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (IME) (<i>current and proposed</i>); Pre-Reporting Contingency Event ACE Value; Pseudo-Tie (<i>current and proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
<p>Reportable Balancing Contingency Event – (RBCE)</p>	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity’s Reporting ACE that results in a loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or (ii) the amount listed below for the applicable Interconnection.

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> ○ Eastern Interconnection: 900 MW ○ Western Interconnection: 500 MW ○ ERCOT: 800 MW ○ Quebec: 500 MW
Reportable Disturbance	<p>Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i></p> <p>Terms None</p>
Reserve Sharing Group – (RSG)	<p>Standards</p> <ul style="list-style-type: none"> ● PRC-005-6 ● BAL-001-2 ● BAL-002-3 ● BAL-002-WECC-3 <p>Terms Reserve Sharing</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Group Reporting ACE
Reserve Sharing Group Reporting ACE	Standards BAL-001-2 Terms None
Scheduled Frequency	Standards <ul style="list-style-type: none"> • BAL-001-2 • MOD-027-1 Terms <ul style="list-style-type: none"> • Frequency Regulation; • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Scheduled Net Interchange - (NIs)	Standards None Terms Reporting ACE <i>(current and proposed)</i>
Supplemental Regulation Service	Standards None Terms None
Tie Line Bias (TLB)	Standards BAL-004-WECC-3 Terms Reporting ACE
Time Error (TE)	Standards None Terms <ul style="list-style-type: none"> • Automatic Time Error Correction <i>(current and</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p><i>proposed</i>);</p> <ul style="list-style-type: none"> • Time Error Correction (<i>current and proposed</i>)
<p>Time Error Correction (TEC)</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Automatic Time Error Correction (<i>current and proposed</i>); • Scheduled Frequency (<i>proposed</i>)

Implementation Plan

Project 2022-01 Reporting ACE Definition and Associated Terms

Definitions of Terms included in the *Glossary of Terms used in NERC Reliability Standards*

Proposed New, Modified, and Retired Terms in the NERC Glossary

This section includes all newly defined or revised terms proposed for inclusion in the *Glossary of Terms used in NERC Reliability Standards* (“*Glossary*”), as well as current NERC *Glossary* terms proposed for retirement. The new and revised definitions are included in **Appendix**.

No changes to the Reliability Standards in which these terms are used are proposed as part of Project 2022-01.

Proposed New Definition(s):

- ACE Diversity Interchange
- Inadvertent Interchange Management (I_{IM})

Proposed Modified Definition(s):

- Actual Net Interchange (NI_A)
- Area Control Error (ACE)
- Automatic Generation Control (AGC)
- Automatic Time Error Correction (ATEC)
- Balancing Authority Area (BAA)
- Balancing Contingency Event (BCE)
- Control Performance Standard (CPS)

- Disturbance
- Dynamic Interchange Schedule or Dynamic Schedule
- Frequency Bias Setting (FBS)
- Frequency Error
- Implemented Interchange
- Inadvertent Interchange
- Interchange Meter Error $-(I_{ME})$
- Operating Reserve – Spinning
- Operating Reserve – Supplemental
- Overlap Regulation Service
- Pseudo-Tie
- Ramp Rate or Ramp
- Regulation Service
- Reportable Balancing Contingency Event (RBCE)
- Reporting Area Control Error (Reporting ACE)
- Reserve Sharing Group (RSG)
- Reserve Sharing Group Reporting ACE
- Scheduled Frequency
- Scheduled Net Interchange (NIs)
- Supplemental Regulation Service
- Tie Line Bias (TLB)
- Time Error (TE)

- Time Error Correction (TEC)

Proposed Retirement(s) of Approved Definition(s):

- Disturbance Control Standard
- Net Interchange Schedule
- Net Scheduled Interchange
- Reportable Disturbance

Background

Project 2022-01 Reporting Ace Definition and Associated Terms was initiated in February 2022 to address an issue, identified by the Resources Subcommittee of the NERC Reliability and Security Technical Committee, regarding the current definition of the NERC defined term Reporting ACE. Specifically, the Resources Subcommittee identified a conflict in the current definition of Reporting ACE with the Western Interconnection’s Automatic Time Error Correction process. The Resources Subcommittee recommended making the Automatic Time Error Correction (ATEC) term generic to allow all Interconnections to implement an automated time error correction process and also revising related defined terms for consistency and clarity.

General Considerations

The Project 2022-01 standard drafting team has proposed one new definition for inclusion in the NERC *Glossary*, revisions to several defined terms, and the retirement of several approved terms that are no longer used in any NERC Reliability Standard or defined term or would no longer be used in any defined term following approval of other revised definitions that currently use those terms. Significant revisions are proposed to the definitions of several terms, such as Area Control Error and Reporting Area Control Error – Reporting ACE, that may require entities to update their documentation and related compliance materials. Other revisions are clarifying in nature, such as the proposed revisions to the definition for the term Time Error (TE). The standard drafting team also proposes revisions to the definitions of certain terms so that less-used defined terms used within those terms may be retired. For ease of implementation and to avoid administrative burden, a twelve month implementation period for all new, revised, and retired terms is proposed.

Effective Date for all New and Revised Definitions for NERC *Glossary* Terms

Where approval by an applicable governmental authority is required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the effective date of the applicable governmental authority’s order approving the definitions, or as otherwise provided for by the applicable governmental authority.

Where approval by an applicable governmental authority is not required, the new and revised definitions shall become effective on the first day of the first calendar quarter that is twelve (12) months after the date the definitions are adopted by the NERC Board of Trustees, or as otherwise provided for in that jurisdiction.

Retirement Date

Currently Effective Definitions

The currently effective definitions of the revised defined terms, as well as the defined terms Disturbance Control Standard, Net Interchange Schedule, Net Scheduled Interchange, and Reportable Disturbance shall be retired immediately prior to the effective date of the revised definitions in the particular jurisdiction in which the revised definitions are becoming effective.

Appendix: New, Revised, and Retired Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
<p>Actual Net Interchange – (NI_A)</p>	<p>The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.</p>
<p>ACE Diversity Interchange (ADI)</p>	<p>A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.
Area Control Error - (ACE)	The instantaneous difference between an entity's Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.
Automatic Generation Control - (AGC)	Standards BAL-004-WECC-3 Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • Joint Control; • Regulating Reserve; • Tie Line Bias (<i>current and revised</i>)
<p>Automatic Time Error Correction – (ATEC)</p>	<p>The addition of a component , represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> • L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. • $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ • ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE / 6) * BA_{island}$ • BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>Interconnection time monitor, where:</p> $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - t * (TE_{\text{offset}})$ <ul style="list-style-type: none"> ○ TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. ○ t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. ○ TE_{offset} is 0.000 or +0.020 or -0.020. ○ PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p>accounting is required, where:</p> $PI_{accum}^{on/offpeak} = \text{last period's } PI_{accum}^{on/offpeak}$
Balancing Authority Area (BAA)	Added Acronym
Balancing Contingency Event – (BCE)	Standards BAL-002-3 Terms

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event
Control Performance Standard – (CPS)	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment A) Terms None
Disturbance	Standards <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control Standard <i>(proposed for retirement)</i>; • Disturbance Monitoring Equipment
Disturbance Control Standard – (DCS)	<p>Standards BAL-002-3</p> <p>Terms None</p>
Dynamic Interchange Schedule or Dynamic Schedule	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-WECC-3 • INT-009-3 <p>Terms</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Scheduled Net Interchange (NIs) <i>(current and proposed)</i>
Frequency Bias Setting (FBS)	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms Reporting ACE <i>(current and proposed)</i>
Frequency Error	Standards: <ul style="list-style-type: none"> • BAL-001-2 • MOD-027-1 Term: <ul style="list-style-type: none"> • Control Performance Standard • Reporting ACE • Frequency

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Regulation; <ul style="list-style-type: none"> • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>)
Inadvertent Interchange	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> • Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); • Dynamic Transfer; • Primary Inadvertent Interchange (WECC)
Inadvertent Interchange	Standards None

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Management – (I_{IM})	Terms Reporting Ace <i>(proposed)</i>
Interchange Meter Error - (I_{ME})	Standards None Terms Reporting ACE <i>(current and proposed)</i>
Interchange Schedule	Standards MOD-028-2 Terms <ul style="list-style-type: none"> • Dynamic Interchange Schedule or Dynamic Schedule <i>(current and proposed);</i> • Net Interchange Schedule <i>(proposed for</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p><i>retirement</i>);</p> <ul style="list-style-type: none"> • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias (<i>current and proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Implemented Interchange	<p>Standards None</p> <p>Terms</p> <ul style="list-style-type: none"> • Reliability Adjustment; • Arranged Interchange
Net Interchange Schedule	<p>Standards None</p> <p>Terms None</p>
Net Scheduled Interchange	<p>Standards None</p> <p>Terms None</p>
Operating Reserve – Spinning	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Operating Reserve – Supplemental	Standards BAL-002-WECC-3 Terms None
Overlap Regulation Service	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms None
Pre-Reporting Contingency Event ACE Value	Standards BAL-002-3 Terms None

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Pseudo-Tie	<p>Standards</p> <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 <p>Terms Actual Net Interchange <i>(current and proposed)</i></p>
Ramp Rate or Ramp	<p>Standards None</p> <p>Terms Response Rate</p>
Regulation Service	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms</p> <ul style="list-style-type: none"> • Overlap Regulation Service <i>(proposed);</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>)
Reporting Area Control Error – (Reporting ACE)	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (IME) (<i>current and proposed</i>); Pre-Reporting Contingency Event ACE Value; Pseudo-Tie (<i>current and proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
<p>Reportable Balancing Contingency Event – (RBCE)</p>	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity’s Reporting ACE that results in a loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or (ii) the amount listed below for the applicable Interconnection.

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<ul style="list-style-type: none"> ○ Eastern Interconnection: 900 MW ○ Western Interconnection: 500 MW ○ ERCOT: 800 MW ○ Quebec: 500 MW
Reportable Disturbance	<p>Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i></p> <p>Terms None</p>
Reserve Sharing Group – (RSG)	<p>Standards</p> <ul style="list-style-type: none"> ● PRC-005-6 ● BAL-001-2 ● BAL-002-3 ● BAL-002-WECC-3 <p>Terms Reserve Sharing</p>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	Group Reporting ACE
Reserve Sharing Group Reporting ACE	Standards BAL-001-2 Terms None
Scheduled Frequency	Standards <ul style="list-style-type: none"> • BAL-001-2 • MOD-027-1 Terms <ul style="list-style-type: none"> • Frequency Regulation; • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>)

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
Scheduled Net Interchange - (NIs)	Standards None Terms Reporting ACE <i>(current and proposed)</i>
Supplemental Regulation Service	Standards None Terms None
Tie Line Bias (TLB)	Standards BAL-004-WECC-3 Terms Reporting ACE
Time Error (TE)	Standards None Terms <ul style="list-style-type: none"> • Automatic Time Error Correction <i>(current and</i>

NERC Glossary Term	DT Proposed New or Revised REDLINE TO Currently Approved
	<p><i>proposed</i>);</p> <ul style="list-style-type: none"> • Time Error Correction (<i>current and proposed</i>)
<p>Time Error Correction (TEC)</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> • Automatic Time Error Correction (<i>current and proposed</i>); • Scheduled Frequency (<i>proposed</i>)

Standards Announcement

Project 2022-01 Reporting ACE Definition and Associated Terms

Final Ballots Open through December 20, 2023

[Now Available](#)

Final ballots for **Project 2022-01 Reporting ACE Definition and Associated Terms** are open through **8 p.m. Eastern, Wednesday, December 20, 2023.**

Balloting

In the final ballot, votes are counted by exception. Votes from the previous ballot are automatically carried over in the final ballot. Only members of the applicable ballot pools can cast a vote. Ballot pool members who previously voted have the option to change their vote in the final ballot. Ballot pool members who did not cast a vote during the previous ballot can vote in the final ballot.

Members of the ballot pool(s) associated with this project can log into the Standards Balloting and Commenting System (SBS) and submit votes [here](#).

- Contact NERC IT support directly at <https://support.nerc.net/> (Monday – Friday, 8 a.m. - 5 p.m. Eastern) for problems regarding accessing the SBS due to a forgotten password, incorrect credential error messages, or system lock-out.
- Passwords expire every **6 months** and must be reset.
- The SBS is **not** supported for use on mobile devices.
- Please be mindful of ballot and comment period closing dates. We ask to **allow at least 48 hours** for NERC support staff to assist with inquiries. Therefore, it is recommended that users try logging into their SBS accounts **prior to the last day** of a comment/ballot period.

Next Steps

The voting results will be posted and announced after the ballots close. If approved, the definitions will be submitted to the Board of Trustees for adoption and then filed with the appropriate regulatory authorities.

For information on the Standards Development Process, refer to the [Standard Processes Manual](#).

For more information or assistance, contact Standards Developer, [Josh Blume](#) (via email) or at 404-446-2593.

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Interchange Meter Error Final Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Interchange Meter Error -(IME) AB 2 DEF

Voting Start Date: 12/11/2023 11:41:12 AM

Voting End Date: 12/20/2023 8:00:00 PM

Total Votes =	208
Total # of Ballot Pool=	234
Quorum =	88.89
Weighted Segment Vote=	98.23

Summary of 84 votes received 12/20/2023:

56 re-voted Affirmative

9 re-voted Abstain

3 re-voted Negative

8 changed vote from Affirmative to Abstain

7 no previous vote - voted Affirmative

1 no previous vote - voted Abstain

Votes by Segment:

	Affirmative	Negative	Abstain	No Vote
Segment 1	46	1	7	10
Segment 2	6	0	0	2
Segment 3	43	1	5	3
Segment 4	5	0	1	3
Segment 5	37	1	9	5
Segment 6	34	1	5	3
Segment 7	0	0	0	0
Segment 8	0	0	0	0
Segment 9	0	0	0	0
Segment 10	5	0	1	0
	<hr/> 176	<hr/> 4	<hr/> 28	<hr/> 26

Ballot results from (initial) ballot ending 3/16/2023
**Combined Ballot results from initial and final ballot ending
3/16/2023 and 12/20/2023**

Segment	Entity	Voter	Proxy	Vote	Segment	Entity	Voter	Proxy	Vote
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	1	Allete - Minnesota Power, Inc.	Hillary Creurer		None
1	Ameren - Ameren Services	Tamara Evey		Affirmative	1	Ameren - Ameren Services	Tamara Evey		Affirmative
1	American Transmission Company, LLC	LaTroy Brumfield		None	1	American Transmission Company, LLC	LaTroy Brumfield		None
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	1	APS - Arizona Public Service Co.	Constantin Chitescu		Affirmative
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray		Affirmative
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative
1	Austin Energy	Thomas Standifur		Abstain	1	Austin Energy	Thomas Standifur		Abstain
1	Avista - Avista Corporation	Mike Magruder		None	1	Avista - Avista Corporation	Mike Magruder		None
1	BC Hydro and Power Authority	Adrian Andreoiu		Negative	1	BC Hydro and Power Authority	Adrian Andreoiu		Negative
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative
1	Black Hills Corporation	Micah Runner		Affirmative	1	Black Hills Corporation	Micah Runner	Carly Miller	Affirmative

1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative
1	Central Iowa Power Cooperative	Kevin Lyons		None
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative
1	Dominion - Dominion Virginia Power	Candace Marshall		Affirmative
1	Duke Energy	Laura Lee		Affirmative
1	Entergy	Brian Lindsey		Affirmative
1	Evergy	Kevin Frick	Alan Kloster	Affirmative
1	Eversource Energy	Joshua London		None
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative
1	FirstEnergy - FirstEnergy Corporation	Julie Severino		Abstain
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative
1	Great River Energy	Gordon Pietsch		Affirmative
1	Hydro-Quebec TransEnergie	Nicolas Turcotte		Affirmative

1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative
1	Duke Energy	Katherine Street		Affirmative
1	Entergy	Brian Lindsey		Affirmative
1	Evergy	Kevin Frick	Alan Kloster	Affirmative
1	Eversource Energy	Joshua London		None
1	Exelon	Daniel Gacek		Affirmative
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative
1	Great River Energy	Gordon Pietsch		Affirmative
1	Hydro-Quebec (HQ)	Nicolas Turcotte		Affirmative

1	IDACORP - Idaho Power Company	Sean Steffensen		None
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative
1	KAMO Electric Cooperative	Micah Breedlove		None
1	Lincoln Electric System	Josh Johnson		Affirmative
1	Los Angeles Department of Water and Power	Pjoy Chua		Abstain
1	M and A Electric Power Cooperative	William Price		Affirmative
1	Manitoba Hydro	Nazra Gladu		Affirmative
1	Muscatine Power and Water	Andrew Kurriger		Affirmative
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative
1	National Grid USA	Michael Jones		Affirmative
1	NB Power Corporation	Jeffrey Streifling	Erin Wilson	None
1	Nebraska Public Power District	Jamison Cawley		Affirmative

1	IDACORP - Idaho Power Company	Sean Steffensen		None
1	Imperial Irrigation District	Jesus Sammy Alcaraz	Denise Sanchez	Affirmative
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative
1	KAMO Electric Cooperative	Micah Breedlove		None
1	Lincoln Electric System	Josh Johnson		Affirmative
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain
1	M and A Electric Power Cooperative	William Price		Affirmative
1	Manitoba Hydro	Nazra Gladu		Affirmative
1	Muscatine Power and Water	Andrew Kurriger		Affirmative
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative
1	National Grid USA	Michael Jones		Affirmative
1	NB Power Corporation	Jeffrey Streifling		Affirmative
1	Nebraska Public Power District	Jamison Cawley		Affirmative

1	New York Power Authority	Salvatore Spagnolo		Affirmative
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain
1	NiSource - Northern Indiana Public Service Co.	Steve Toosevich		Affirmative
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative
1	Omaha Public Power District	Doug Peterchuck		Affirmative
1	OTP - Otter Tail Power Company	Charles Wicklund		None
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative
1	Platte River Power Authority	Marissa Archie		Affirmative
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative

1	New York Power Authority	Daniel Valle		Affirmative
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Abstain
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative
1	Omaha Public Power District	Doug Peterchuck		Affirmative
1	OTP - Otter Tail Power Company	Charles Wicklund		None
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Abstain
1	Platte River Power Authority	Marissa Archie		Affirmative
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative

1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative
1	Santee Cooper	Chris Wagner		Affirmative
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative
1	Tennessee Valley Authority	David Plumb		Affirmative
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative

1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative
1	Santee Cooper	Chris Wagner		Affirmative
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative
1	Tennessee Valley Authority	David Plumb		Affirmative
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative

1	Unisource - Tucson Electric Power Co.	Sam Rugel		None
1	Western Area Power Administration	Ben Hammer		None
1	Xcel Energy, Inc.	Eric Barry		Affirmative
2	California ISO	Darcy O'Connell		Affirmative
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative
2	Independent Electricity System Operator	Harishkumar Subramani Vijay Kumar		Affirmative
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative
2	New York Independent System Operator	Gregory Campoli		None
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward		Affirmative
3	Ameren - Ameren Services	David Jendras Sr		Affirmative
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative

1	Unisource - Tucson Electric Power Co.	Sam Rugel		None
1	Western Area Power Administration	Ben Hammer		Affirmative
1	Xcel Energy, Inc.	Eric Barry		Affirmative
2	California ISO	Darcy O'Connell		Affirmative
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative
2	Independent Electricity System Operator	Helen Lainis		Affirmative
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative
2	New York Independent System Operator	Gregory Campoli		None
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative
3	Ameren - Ameren Services	David Jendras Sr		Affirmative
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative

3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative
3	Avista - Avista Corporation	Robert Follini		Affirmative
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative
3	Black Hills Corporation	Josh Combs		Affirmative
3	Bonneville Power Administration	Ken Lanehome		Affirmative
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative
3	Dominion - Dominion Resources, Inc.	Connie Schroeder		Affirmative
3	Duke Energy	Lee Schuster		Affirmative
3	Edison International - Southern California	Romel Aquino		Negative

3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative
3	Avista - Avista Corporation	Robert Follini		Affirmative
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative
3	Black Hills Corporation	Josh Combs		Affirmative
3	Bonneville Power Administration	Ron Sporseen		Affirmative
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative
3	Edison International - Southern California	Romel Aquino		Negative

	Edison Company			
3	Entergy	James Keele		Affirmative
3	Eergy	Marcus Moor	Alan Kloster	Affirmative
3	Exelon	Kinte Whitehead		Affirmative
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain
3	Great River Energy	Michael Brytowski		Affirmative
3	Imperial Irrigation District	Glen Allegranza		Affirmative
3	KAMO Electric Cooperative	Tony Gott		Affirmative
3	Lincoln Electric System	Sam Christensen		Affirmative
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative
3	Manitoba Hydro	Mike Smith		Affirmative
3	Muscatine Power and Water	Seth Shoemaker		Affirmative
3	National Grid USA	Brian Shanahan		Affirmative
3	Nebraska Public Power District	Tony Eddleman		Affirmative

	Edison Company			
3	Entergy	James Keele		Affirmative
3	Eergy	Marcus Moor	Alan Kloster	Affirmative
3	Exelon	Kinte Whitehead		Affirmative
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain
3	Great River Energy	Michael Brytowski		Affirmative
3	Imperial Irrigation District	George Kirschner	Denise Sanchez	Affirmative
3	KAMO Electric Cooperative	Tony Gott		Affirmative
3	Lincoln Electric System	Sam Christensen		Affirmative
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain
3	M and A Electric Power Cooperative	Stephen Pogue		Affirmative
3	Manitoba Hydro	Mike Smith		Affirmative
3	Muscatine Power and Water	Seth Shoemaker		Affirmative
3	National Grid USA	Brian Shanahan		Affirmative
3	Nebraska Public Power District	Tony Eddleman		Affirmative

3	New York Power Authority	David Rivera		Affirmative
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative
3	Omaha Public Power District	David Heins		Affirmative
3	OTP - Otter Tail Power Company	Wendi Olson		None
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative
3	Platte River Power Authority	Richard Kiess		Affirmative
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative

3	New York Power Authority	David Rivera		Affirmative
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Abstain
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative
3	Omaha Public Power District	David Heins		Affirmative
3	OTP - Otter Tail Power Company	Wendi Olson		None
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative
3	Platte River Power Authority	Richard Kiess		Affirmative
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative

3	PSEG - Public Service Electric and Gas Co.	Maria Pardo		Affirmative
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative
3	Santee Cooper	Vicky Budreau		Affirmative
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative
3	Tennessee Valley Authority	Ian Grant		Affirmative
3	Tri-State G and T Association, Inc.	Ryan Walter		None

3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative
3	Santee Cooper	Vicky Budreau		Affirmative
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative
3	Tennessee Valley Authority	Ian Grant		Affirmative
3	Tri-State G and T Association, Inc.	Ryan Walter		None

3	WEC Energy Group, Inc.	Christine Kane		Affirmative
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative
4	Austin Energy	Tony Hua		None
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative
5	APS - Arizona Public Service Co.	Michelle Amarantos		Affirmative

3	WEC Energy Group, Inc.	Christine Kane		Affirmative
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative
4	Austin Energy	Tony Hua		None
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative

5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative
5	Avista - Avista Corporation	Glen Farmer		None
5	BC Hydro and Power Authority	Helen Hamilton Harding		Negative
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None
5	Black Hills Corporation	Sheila Suurmeier		Affirmative
5	Bonneville Power Administration	Christopher Siewert		Affirmative
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative
5	Colorado Springs Utilities	Jeffrey Icke		None
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative
5	Constellation	Alison MacKellar		Abstain
5	Dairyland Power Cooperative	Tommy Drea		Affirmative
5	Dominion - Dominion Resources, Inc.	Rachel Snead		Affirmative
5	Duke Energy	Dale Goodwine		Affirmative

5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative
5	Avista - Avista Corporation	Glen Farmer		Affirmative
5	BC Hydro and Power Authority	Helen Hamilton Harding		Negative
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	None
5	Black Hills Corporation	Sheila Suurmeier		Affirmative
5	Bonneville Power Administration	Christopher Siewert		Affirmative
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative
5	Colorado Springs Utilities	Jeffrey Icke		Abstain
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative
5	Constellation	Alison MacKellar		Abstain
5	Dairyland Power Cooperative	Tommy Drea		Abstain
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative
5	Duke Energy	Dale Goodwine		Affirmative

5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative
5	FirstEnergy - FirstEnergy Corporation	Robert Loy		Abstain
5	Great River Energy	Jacalynn Bentz		Affirmative
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain
5	Hydro-Quebec Production	Carl Pineault		Affirmative
5	Imperial Irrigation District	Tino Zaragoza		Affirmative
5	Lincoln Electric System	Brittany Millard		Affirmative
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain
5	Manitoba Hydro	Kristy-Lee Young		None
5	Muscatine Power and Water	Neal Nelson		Affirmative
5	National Grid USA	Robin Berry		Affirmative
5	Nebraska Public Power District	Ronald Bender		Affirmative
5	New York Power Authority	Zahid Qayyum		Affirmative
5	NextEra Energy	Summer Esquerre		Abstain

5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain
5	Great River Energy	Jacalynn Bentz		Affirmative
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain
5	Hydro-Quebec (HQ)	Junji Yamaguchi		Affirmative
5	Imperial Irrigation District	Tino Zaragoza		Affirmative
5	Lincoln Electric System	Brittany Millard		Affirmative
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain
5	Manitoba Hydro	Kristy-Lee Young		Affirmative
5	Muscatine Power and Water	Neal Nelson		Affirmative
5	National Grid USA	Robin Berry		Affirmative
5	Nebraska Public Power District	Ronald Bender		Affirmative
5	New York Power Authority	Zahid Qayyum		Affirmative
5	NextEra Energy	Richard Vendetti		Abstain

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain
5	Orlando Utilities Commission	Dania Colon		Affirmative
5	OTP - Otter Tail Power Company	Stacy Wahlund		None
5	Pacific Gas and Electric Company	Frank Lee		None
5	Pattern Operators LP	George E Brown		Affirmative
5	Platte River Power Authority	Jon Osell		Affirmative
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative
5	PSEG Nuclear LLC	Tim Kucey		Affirmative
5	Public Utility District No. 1 of Chelan County	Meaghan Connell		Affirmative
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Abstain
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain
5	Orlando Utilities Commission	Dania Colon		Affirmative
5	OTP - Otter Tail Power Company	Stacy Wahlund		None
5	Pacific Gas and Electric Company	Frank Lee		None
5	Pattern Operators LP	George E Brown		Affirmative
5	Platte River Power Authority	Jon Osell		Affirmative
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative
5	PSEG Nuclear LLC	Tim Kucey		Affirmative
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative

5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative
5	Santee Cooper	Marty Watson		Affirmative
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None
5	Southern Company - Southern Company Generation	Jim Howell, Jr.		Affirmative
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative
6	Arkansas Electric	Bruce Walkup		Affirmative

5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative
5	Santee Cooper	Don Cribb		Affirmative
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative
6	Arkansas Electric	Bruce Walkup		Abstain

	Cooperative Corporation			
6	Black Hills Corporation	Claudine Bates		Affirmative
6	Bonneville Power Administration	Tanner Brier		Affirmative
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative
6	Constellation	Kimberly Turco		Abstain
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative
6	Duke Energy	John Sturgeon		Affirmative
6	Edison International - Southern California Edison Company	Kenya Streeter		None
6	Entergy	Julie Hall		Affirmative
6	Eergy	Jennifer Flandermeyer	Alan Kloster	Affirmative
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain
6	Great River Energy	Donna Stephenson		Affirmative
6	Imperial Irrigation District	Diana Torres		Affirmative
6	Lakeland Electric	Paul Shipps		None

	Cooperative Corporation			
6	Black Hills Corporation	Rachel Schuldt		Affirmative
6	Bonneville Power Administration	Tanner Brier		Affirmative
6	Con Ed - Consolidated Edison Co. of New York	Michael Foley		Affirmative
6	Constellation	Kimberly Turco		Abstain
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative
6	Duke Energy	John Sturgeon		Affirmative
6	Edison International - Southern California Edison Company	Kenya Streeter		None
6	Entergy	Julie Hall		Affirmative
6	Eergy	Jennifer Flandermeyer	Alan Kloster	Affirmative
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain
6	Great River Energy	Brian Meloy		Affirmative
6	Imperial Irrigation District	Diana Torres	Denise Sanchez	Affirmative
6	Lakeland Electric	Paul Shipps		None

6	Lincoln Electric System	Eric Ruskamp		Affirmative
6	Los Angeles Department of Water and Power	Anton Vu		Abstain
6	Manitoba Hydro	Kelly Bertholet		Affirmative
6	Muscatine Power and Water	Nicholas Burns		Affirmative
6	New York Power Authority	Shelly Dineen		Affirmative
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative
6	Omaha Public Power District	Shonda McCain		Affirmative
6	Platte River Power Authority	Sabrina Martz		Affirmative
6	Portland General Electric Co.	Daniel Mason		Affirmative
6	Powerex Corporation	Raj Hundal		Negative
6	PPL - Louisville Gas	Linn Oelker		Affirmative

6	Lincoln Electric System	Eric Ruskamp		Affirmative
6	Los Angeles Department of Water and Power	Anton Vu		Abstain
6	Manitoba Hydro	Kelly Bertholet		Affirmative
6	Muscatine Power and Water	Nicholas Burns		Affirmative
6	New York Power Authority	Shelly Dineen		Affirmative
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative
6	Omaha Public Power District	Shonda McCain		Affirmative
6	Platte River Power Authority	Sabrina Martz		Affirmative
6	Portland General Electric Co.	Stefanie Burke		Affirmative
6	Powerex Corporation	Raj Hundal		Negative
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative

	and Electric Co.			
6	PSEG - PSEG Energy Resources and Trade LLC	Joseph Neglia		Affirmative
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative
6	Public Utility District No. 2 of Grant County, Washington	M LeRoy Patterson		Affirmative
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative
6	Santee Cooper	Glenda Horne		Affirmative
6	Snohomish County PUD No. 1	John Liang		Affirmative
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None

6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative
6	Santee Cooper	Marty Watson		Affirmative
6	Snohomish County PUD No. 1	John Liang		Affirmative
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None

6	Tennessee Valley Authority	Armando Rodriguez		None
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative
6	Western Area Power Administration	Jennifer Neville		None
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative
10	Midwest Reliability Organization	William Steiner		Affirmative
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain
10	ReliabilityFirst	Lindsey Mannion		Affirmative
10	SERC Reliability Corporation	Dave Krueger		Affirmative
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative

6	Tennessee Valley Authority	Armando Rodriguez		Affirmative
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative
6	Western Area Power Administration	Jennifer Neville		Affirmative
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative
10	Midwest Reliability Organization	Mark Flanary		Affirmative
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain
10	ReliabilityFirst	Lindsey Mannion		Affirmative
10	SERC Reliability Corporation	Dave Krueger		Affirmative
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative

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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms New - ACE Diversity Interchange (ADI) FN 2 ST**Voting Start Date:** 12/11/2023 11:30:42 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** ST**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 185**Total Ballot Pool:** 220**Quorum:** 84.09**Quorum Established Date:** 12/11/2023 2:37:41 PM**Weighted Segment Value:** 95.64

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	42	0.955	2	0.045	0	9	12
Segment: 2	6	0.5	5	0.5	0	0	0	1	0
Segment: 3	53	1	38	0.974	1	0.026	0	4	10
Segment: 4	9	0.5	4	0.4	1	0.1	0	1	3
Segment: 5	48	1	32	0.97	1	0.03	0	9	6
Segment: 6	33	1	25	0.962	1	0.038	0	3	4
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	220	5.5	151	5.26	6	0.24	0	28	35

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
1	National Grid USA	Michael Jones		Abstain	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		Affirmative	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Eversource Energy	Vicki O'Leary		None	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
2	ISO New England, Inc.	John Pearson		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion	Stephen Whaite	Affirmative	N/A
5	Tennessee Valley Authority	Darren Boehm		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		None	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Abstain	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		None	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
1	Puget Sound Energy, Inc.	Anna Lavik		Abstain	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A

2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		Abstain	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward	Shannon Mickens	Affirmative	N/A
1	Sho-Me Power Electric Cooperative	Olivia Olson		None	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Negative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Negative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
6	Associated Electric Cooperative, Inc.	Brian Ackermann		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Negative	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
5	Oglethorpe Power Corporation	Donna Johnson		Abstain	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Negative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A

5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Negative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
4	City Utilities of Springfield, Missouri	Jerry Bradshaw		Affirmative	N/A
3	BC Hydro and Power Authority	Ming Jiang		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Affirmative	N/A
5	Lakeland Electric	Carmen Rodriguez		Affirmative	N/A
1	Lakeland Electric	Larry Watt		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		None	N/A
3	Lincoln Electric System	Sam Christensen		None	N/A
1	Lincoln Electric System	Josh Johnson		None	N/A
5	National Grid USA	Robin Berry		Abstain	N/A
6	Lincoln Electric System	Eric Ruskamp		None	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
6	Evergy	Tiffany Lake	Alan Kloster	Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
3	City Utilities of Springfield, Missouri	Jessica Morrissey		None	N/A
5	DTE Energy - Detroit Edison Company	Mohamad Elhousseini		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	JEA	Joseph McClung		None	N/A
3	JEA	Marilyn Williams		None	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		Affirmative	N/A
3	Lakeland Electric	Steven Marshall		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A

3	Great River Energy	Michael Brytowski		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
3	Entergy	James Keele		Abstain	N/A
1	Oncor Electric Delivery	Byron Booker		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz	Denise Sanchez	Affirmative	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
4	Buckeye Power, Inc.	Jason Procuinar	Ryan Strom	Affirmative	N/A
3	Buckeye Power, Inc.	Carl Spaetzel	Ryan Strom	Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
3	PNM Resources - Public Service Company of New Mexico	Amy Wesselkamper		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Eversource Energy	Joshua London		Abstain	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
1	Long Island Power Authority	Isidoro Behar		Abstain	N/A
1	U.S. Bureau of Reclamation	Richard Jackson		None	N/A
5	U.S. Bureau of Reclamation	Wendy Kalidass		Abstain	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
1	Lower Colorado River Authority	Matt Lewis		None	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
10	New York State Reliability Council	Wesley Yeomans		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Abstain	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

5	Imperial Irrigation District	Tino Zaragoza	Denise Sanchez	Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert	Donovan Crane	Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	Buckeye Power, Inc.	Kevin Zemanek	Ryan Strom	Affirmative	N/A
5	Lower Colorado River Authority	Teresa Krabe		None	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Austin Energy	Thomas Standifur		None	N/A
3	Imperial Irrigation District	George Kirschner	Denise Sanchez	Affirmative	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
1	Pedernales Electric Cooperative, Inc.	Bradley Collard		None	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	LS Power Development, LLC	C. A. Campbell		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
5	Salt River Project	Thomas Johnson	Israel Perez	Affirmative	N/A
3	Austin Energy	Lovita Griffin		None	N/A
6	Seminole Electric Cooperative, Inc.	Bret Galbraith		None	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee	Michael Johnson	Abstain	N/A
1	City Utilities of Springfield, Missouri	Michael Bowman		Affirmative	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Edison International - Southern California Edison	Selene Willis		None	N/A

	Company			
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Affirmative N/A
3	National Grid USA	Brian Shanahan		None N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
6	New York Power Authority	Shelly Dineen		Affirmative N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative N/A
3	Pacific Gas and Electric Company	Sandra Ellis	Michael Johnson	Abstain N/A
5	Platte River Power Authority	Jon Osell		Abstain N/A
6	Lakeland Electric	Paul Shipps		Affirmative N/A
6	Platte River Power Authority	Sabrina Martz		Abstain N/A
6	Entergy	Julie Hall		None N/A
1	Entergy	Brian Lindsey		None N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative N/A
1	Exelon	Daniel Gacek		Affirmative N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative N/A
6	Public Utility District No. 1 of Chelan County	Anne Kronshage		Affirmative N/A
3	Tacoma Public Utilities (Tacoma, WA)	John Nierenberg	Jennie Wike	None N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Abstain N/A
3	CMS Energy - Consumers Energy Company	Karl Blaszkowski		None N/A
5	NB Power Corporation - New Brunswick Power Transmission Corporation	Fon Hiew		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms New - Inadvertent Interchange Management (IIM) FN 3 DEF**Voting Start Date:** 12/11/2023 11:29:09 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 3**Total # Votes:** 205**Total Ballot Pool:** 234**Quorum:** 87.61**Quorum Established Date:** 12/11/2023 2:34:25 PM**Weighted Segment Value:** 96.28

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	0.959	2	0.041	0	9	7
Segment: 2	8	0.7	7	0.7	0	0	0	0	1
Segment: 3	52	1	38	0.95	2	0.05	0	5	7
Segment: 4	9	0.4	4	0.4	0	0	0	1	4
Segment: 5	51	1	33	0.943	2	0.057	0	11	5
Segment: 6	43	1	31	0.939	2	0.061	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	165	5.391	8	0.209	0	32	29

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		None	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Negative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	N/A
6	Evergy	Tiffany Lake	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion	Stephen Whaite	Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A

1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Affirmative	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Abstain	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Affirmative	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward	Shannon Mickens	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		None	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Affirmative	N/A
2	ISO New England, Inc.	John Pearson		Affirmative	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A

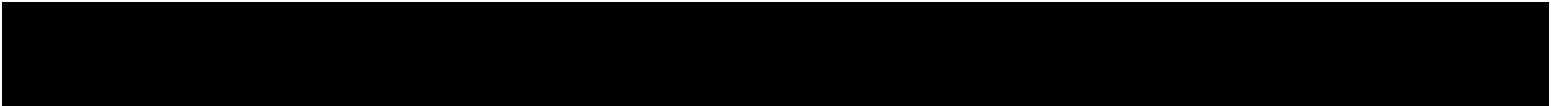
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Abstain	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		None	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		Affirmative	N/A
6	Lakeland Electric	Paul Shippis		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		None	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A

1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza	Denise Sanchez	Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative N/A
6	Duke Energy	John Sturgeon		Negative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		None N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		Affirmative N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		Affirmative N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert	Donovan Crane	Affirmative N/A
5	Duke Energy	Dale Goodwine		Negative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Abstain N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Affirmative N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray		Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Katherine Street		Negative N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Affirmative N/A
6	Imperial Irrigation District	Diana Torres	Denise Sanchez	Affirmative N/A
5	National Grid USA	Robin Berry		Abstain N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative N/A
1	Avista - Avista Corporation	Mike Magruder		Affirmative N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative N/A
5	NextEra Energy	Richard Vendetti		Affirmative N/A

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Affirmative	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee	Michael Johnson	Abstain	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		Affirmative	N/A
1	Puget Sound Energy, Inc.	Anna Lavik		Abstain	N/A
3	Exelon	Kinte Whitehead		None	N/A
1	Exelon	Daniel Gacek		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		Abstain	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		Abstain	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Abstain	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		None	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz	Denise Sanchez	Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		Abstain	N/A
6	Lincoln Electric System	Eric Ruskamp		None	N/A
3	Lincoln Electric System	Sam Christensen		None	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A

1	Austin Energy	Thomas Standifur		None	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner	Denise Sanchez	Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Abstain	N/A
5	Orlando Utilities Commission	Dania Colon		Abstain	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		None	N/A
3	National Grid USA	Brian Shanahan		None	N/A
1	Entergy	Brian Lindsey		None	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis	Michael Johnson	Abstain	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		None	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Abstain	N/A
6	Portland General Electric Co.	Stefanie Burke		None	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		None	N/A

6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	Affirmative	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	Affirmative	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Actual Net Interchange (NIA) FN 2 DEF**Voting Start Date:** 12/11/2023 11:33:21 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 206**Total Ballot Pool:** 234**Quorum:** 88.03**Quorum Established Date:** 12/11/2023 2:34:47 PM**Weighted Segment Value:** 97.45

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	47	0.979	1	0.021	0	4	12
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.957	2	0.043	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	38	0.95	2	0.05	0	7	5
Segment: 6	43	1	34	0.971	1	0.029	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	179	5.457	6	0.143	0	21	28

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Negative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

6	WEC Energy Group, Inc.	David Boeshaar		Affirmative N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

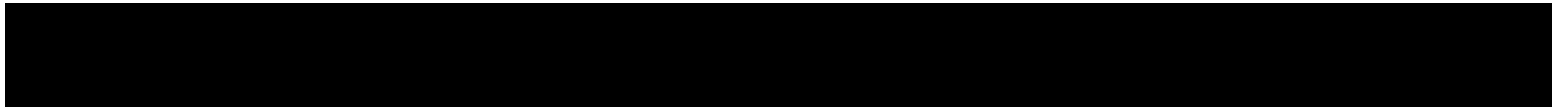
2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A

5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		None	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Negative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Area Control Error (ACE) FN 2 DEF**Voting Start Date:** 12/11/2023 11:34:04 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:34:56 PM**Weighted Segment Value:** 73.16

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	36	0.75	12	0.25	0	5	11
Segment: 2	8	0.6	3	0.3	3	0.3	0	0	2
Segment: 3	52	1	37	0.804	9	0.196	0	3	3
Segment: 4	9	0.5	3	0.3	2	0.2	0	1	3
Segment: 5	52	1	28	0.737	10	0.263	0	9	5
Segment: 6	43	1	24	0.706	10	0.294	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	136	4.097	46	1.503	0	25	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Negative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Negative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Negative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Negative	N/A

6	WEC Energy Group, Inc.	David Boeshaar	Negative	N/A	
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang	Affirmative	N/A	
1	Associated Electric Cooperative, Inc.	Mark Riley	Affirmative	N/A	
6	Western Area Power Administration	Jennifer Neville	Affirmative	N/A	
6	Omaha Public Power District	Shonda McCain	Negative	N/A	
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim	Abstain	N/A	
2	California ISO	Darcy O'Connell	Affirmative	N/A	
3	Bonneville Power Administration	Ron Sporseen	Affirmative	N/A	
1	Omaha Public Power District	Doug Peterchuck	Negative	N/A	
3	Manitoba Hydro	Mike Smith	Affirmative	N/A	
6	Bonneville Power Administration	Tanner Brier	Affirmative	N/A	
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez	Affirmative	N/A	
5	APS - Arizona Public Service Co.	Andrew Smith	Affirmative	N/A	
3	Ameren - Ameren Services	David Jendras Sr	Negative	N/A	
6	Ameren - Ameren Services	Robert Quinlivan	Negative	N/A	
3	Santee Cooper	Vicky Budreau	Affirmative	N/A	
5	Ameren - Ameren Missouri	Sam Dwyer	Negative	N/A	
5	Santee Cooper	Don Cribb	Affirmative	N/A	
1	APS - Arizona Public Service Co.	Daniela Atanasovski	Affirmative	N/A	
6	APS - Arizona Public Service Co.	Marcus Bortman	Affirmative	N/A	
5	Tri-State G and T Association, Inc.	Sergio Banuelos	Abstain	N/A	
1	Santee Cooper	Chris Wagner	Affirmative	N/A	
6	Santee Cooper	Marty Watson	Affirmative	N/A	
5	Dairyland Power Cooperative	Tommy Drea	Abstain	N/A	
1	PPL Electric Utilities Corporation	Michelle McCartney Longo	Affirmative	N/A	
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost	Affirmative	N/A	
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan	Abstain	N/A	
4	WEC Energy Group, Inc.	Matthew Beilfuss	Negative	N/A	
5	Xcel Energy, Inc.	Gerry Huitt	Affirmative	N/A	
6	PPL - Louisville Gas and Electric Co.	Linn Oelker	Affirmative	N/A	
3	Avista - Avista Corporation	Robert Follini	Affirmative	N/A	
3	Los Angeles Department of Water and Power	Tony Skourtas	Abstain	N/A	
6	Los Angeles Department of Water and Power	Anton Vu	Abstain	N/A	
1	Tri-State G and T Association, Inc.	Donna Wood	Abstain	N/A	
5	Los Angeles Department of Water and Power	Glenn Barry	Abstain	N/A	
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips	Negative	N/A	
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert	Negative	N/A	
5	Greybeard Compliance Services, LLC	Mike Gabriel	Abstain	N/A	
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio	Abstain	N/A	

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Abstain	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Negative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Negative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Negative	N/A
3	Omaha Public Power District	David Heins		Negative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Negative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Negative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Negative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A

5	WEC Energy Group, Inc.	Clarice Zellmer		Negative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	N/A
6	Duke Energy	John Sturgeon		Negative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Negative	N/A
1	Great River Energy	Gordon Pietsch		Negative	N/A
3	Great River Energy	Michael Brytowski		Negative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Negative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Negative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Negative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Negative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Negative	N/A
5	Muscatine Power and Water	Neal Nelson		Negative	N/A
6	Muscatine Power and Water	Nicholas Burns		Negative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Negative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Negative	N/A

3	Lincoln Electric System	Sam Christensen		Negative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Negative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Negative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Negative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Negative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Negative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Negative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Negative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Automatic Time Error Correction (ATEC) FN 2 DEF**Voting Start Date:** 12/11/2023 11:34:57 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:35:04 PM**Weighted Segment Value:** 97.65

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	38	0.974	1	0.026	0	14	11
Segment: 2	8	0.4	4	0.4	0	0	0	2	2
Segment: 3	52	1	37	0.974	1	0.026	0	11	3
Segment: 4	9	0.3	3	0.3	0	0	0	3	3
Segment: 5	52	1	29	0.967	1	0.033	0	17	5
Segment: 6	43	1	26	0.963	1	0.037	0	13	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.2	142	5.078	4	0.122	0	61	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Abstain	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	WEC Energy Group, Inc.	Christine Kane		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Negative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Abstain	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Abstain N/A
6	Ameren - Ameren Services	Robert Quinlivan		Abstain N/A
3	Santee Cooper	Vicky Budreau		Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Abstain N/A
5	Santee Cooper	Don Cribb		Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Abstain N/A
6	Santee Cooper	Marty Watson		Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea		Abstain N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Abstain N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Abstain	N/A
2	Independent Electricity System Operator	Helen Lainis		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Abstain	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Abstain	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Abstain	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Negative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Abstain	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A

5	WEC Energy Group, Inc.	Clarice Zellmer		Abstain	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Abstain	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Abstain	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Abstain	N/A
1	Great River Energy	Gordon Pietsch		Abstain	N/A
3	Great River Energy	Michael Brytowski		Abstain	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Abstain	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Abstain	N/A
6	Powerex Corporation	Raj Hundal		Negative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Abstain	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Abstain	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Abstain	N/A
6	Muscatine Power and Water	Nicholas Burns		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Abstain	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Abstain	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Authority Area (BAA) FN 2 DEF

Voting Start Date: 12/11/2023 11:35:41 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 208

Total Ballot Pool: 235

Quorum: 88.51

Quorum Established Date: 12/11/2023 2:35:13 PM

Weighted Segment Value: 97.99

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	49	0.98	1	0.02	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.957	2	0.043	0	2	3
Segment: 4	9	0.6	6	0.6	0	0	0	0	3
Segment: 5	52	1	40	0.976	1	0.024	0	6	5
Segment: 6	43	1	35	0.972	1	0.028	0	4	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.7	186	5.585	5	0.115	0	17	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Affirmative N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Affirmative N/A

Kathleen

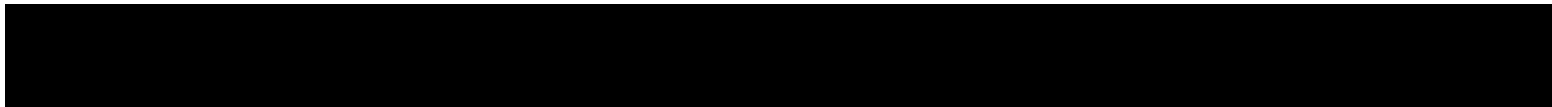
2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A

5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	N/A
6	Duke Energy	John Sturgeon		Negative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		Abstain	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A

3	Edison International - Southern California Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Balancing Contingency Event (BCE) FN 2 DEF**Voting Start Date:** 12/11/2023 11:36:20 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:35:30 PM**Weighted Segment Value:** 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	48	1	0	0	0	5	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	39	1	0	0	0	8	5
Segment: 6	43	1	34	1	0	0	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	181	5.578	1	0.022	0	25	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

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2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A

5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Control Performance Standard (CPS) FN 2 DEF

Voting Start Date: 12/11/2023 11:36:56 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 207

Total Ballot Pool: 234

Quorum: 88.46

Quorum Established Date: 12/11/2023 2:35:38 PM

Weighted Segment Value: 96.43

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	46	0.958	2	0.042	0	5	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	37	0.949	2	0.051	0	8	5
Segment: 6	43	1	32	0.941	2	0.059	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.4	4	0.4	0	0	0	2	0
Totals:	234	5.5	173	5.304	8	0.196	0	26	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Negative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

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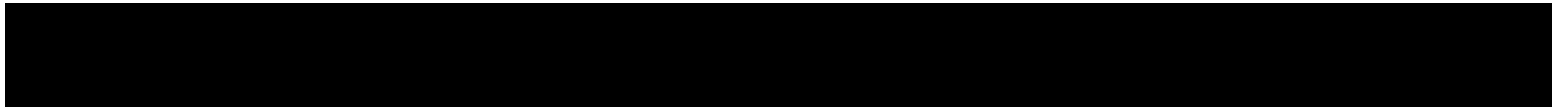
2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Negative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A

5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	N/A
6	Duke Energy	John Sturgeon		Negative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Abstain	N/A
5	Duke Energy	Dale Goodwine		Negative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Negative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Disturbance FN 2 DEF

Voting Start Date: 12/11/2023 11:37:26 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 208

Total Ballot Pool: 235

Quorum: 88.51

Quorum Established Date: 12/11/2023 2:35:45 PM

Weighted Segment Value: 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	50	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	40	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	235	5.6	186	5.578	1	0.022	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

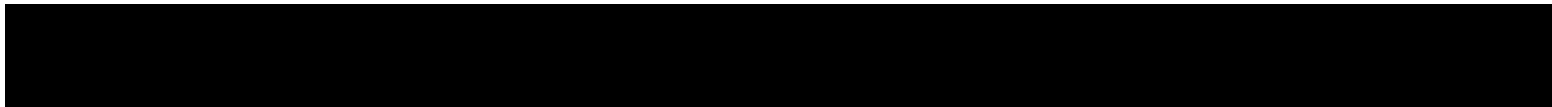
2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A

4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A

3	Edison International - Southern California Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Dynamic Interchange Schedule or Dynamic Schedule FN 2 DEF**Voting Start Date:** 12/11/2023 11:37:57 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:35:55 PM**Weighted Segment Value:** 97.81

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	47	0.979	1	0.021	0	5	11
Segment: 2	8	0.5	5	0.5	0	0	0	1	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	38	0.974	1	0.026	0	8	5
Segment: 6	43	1	33	0.971	1	0.029	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.5	176	5.38	5	0.12	0	26	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A

4	Austin Energy	Tony Hua	None	N/A	
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen	Affirmative	N/A	
6	Portland General Electric Co.	Stefanie Burke	Affirmative	N/A	
1	Nebraska Public Power District	Jamison Cawley	Affirmative	N/A	
5	Imperial Irrigation District	Tino Zaragoza	Affirmative	N/A	
5	Public Utility District No. 1 of Snohomish County	Becky Burden	Affirmative	N/A	
6	Snohomish County PUD No. 1	John Liang	Affirmative	N/A	
1	Ameren - Ameren Services	Tamara Evey	Affirmative	N/A	
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez	Negative	N/A	
6	Duke Energy	John Sturgeon	Negative	N/A	
3	Nebraska Public Power District	Tony Eddleman	Affirmative	N/A	
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver	Affirmative	N/A	
3	Tri-State G and T Association, Inc.	Ryan Walter	None	N/A	
1	OTP - Otter Tail Power Company	Charles Wicklund	None	N/A	
5	OTP - Otter Tail Power Company	Stacy Wahlund	None	N/A	
3	PPL - Louisville Gas and Electric Co.	James Frank	Affirmative	N/A	
1	Glencoe Light and Power Commission	Terry Volkmann	Affirmative	N/A	
1	Great River Energy	Gordon Pietsch	Affirmative	N/A	
3	Great River Energy	Michael Brytowski	Affirmative	N/A	
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien	Affirmative	N/A	
10	Western Electricity Coordinating Council	Steven Rueckert	Affirmative	N/A	
5	Duke Energy	Dale Goodwine	Negative	N/A	
5	Nebraska Public Power District	Ronald Bender	Affirmative	N/A	
6	Powerex Corporation	Raj Hundal	Affirmative	N/A	
1	National Grid USA	Michael Jones	Affirmative	N/A	
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell	Abstain	N/A	
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett	Affirmative	N/A	
1	Duke Energy	Katherine Street	Negative	N/A	
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells	Affirmative	N/A	
6	NextEra Energy - Florida Power and Light Co.	Justin Welty	Abstain	N/A	
6	Imperial Irrigation District	Diana Torres	Affirmative	N/A	
5	National Grid USA	Robin Berry	Affirmative	N/A	
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey	Affirmative	N/A	
3	Seminole Electric Cooperative, Inc.	Marc Sedor	None	N/A	
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier	Affirmative	N/A	
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy	Affirmative	N/A	
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu	Affirmative	N/A	
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Bias Setting (FBS) FN 2 DEF**Voting Start Date:** 12/11/2023 11:38:42 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:36:04 PM**Weighted Segment Value:** 97.85

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	47	0.979	1	0.021	0	5	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	38	0.974	1	0.026	0	8	5
Segment: 6	43	1	33	0.971	1	0.029	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	177	5.48	5	0.12	0	25	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A

4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	N/A
6	Duke Energy	John Sturgeon		Negative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Frequency Error FN 2 DEF

Voting Start Date: 12/11/2023 11:39:21 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 207

Total Ballot Pool: 234

Quorum: 88.46

Quorum Established Date: 12/11/2023 2:37:17 PM

Weighted Segment Value: 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
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Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	40	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	185	5.578	1	0.022	0	21	27

Ballot Pool Members

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1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
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6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
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6	Constellation	Kimberly Turco		Abstain	N/A
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3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
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3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
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1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A

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3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
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3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
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6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
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5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
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6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
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4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A

4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Implemented Interchange FN 2 DEF

Voting Start Date: 12/11/2023 11:40:09 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 207

Total Ballot Pool: 234

Quorum: 88.46

Quorum Established Date: 12/11/2023 2:37:38 PM

Weighted Segment Value: 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	40	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	185	5.578	1	0.022	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

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2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A

4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Inadvertent Interchange FN 2 DEF**Voting Start Date:** 12/11/2023 11:40:40 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:37:46 PM**Weighted Segment Value:** 99.21

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	46	0.979	1	0.021	0	6	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.977	1	0.023	0	5	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	38	1	0	0	0	9	5
Segment: 6	43	1	33	1	0	0	0	7	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	176	5.556	2	0.044	0	29	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Abstain N/A
5	Santee Cooper	Don Cribb		Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Abstain N/A
6	Santee Cooper	Marty Watson		Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

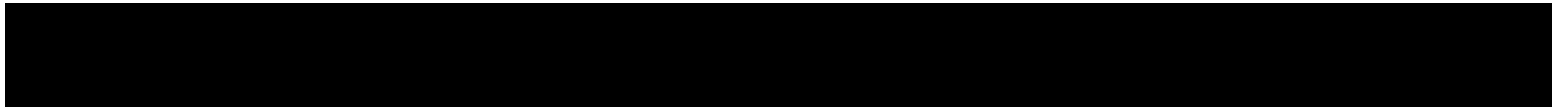
2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A

4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Negative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A

1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Spinning FN 2 DEF

Voting Start Date: 12/11/2023 11:41:52 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 207

Total Ballot Pool: 234

Quorum: 88.46

Quorum Established Date: 12/11/2023 2:38:20 PM

Weighted Segment Value: 99.51

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	41	1	0	0	0	12	11
Segment: 2	8	0.4	4	0.4	0	0	0	2	2
Segment: 3	52	1	38	0.974	1	0.026	0	10	3
Segment: 4	9	0.3	3	0.3	0	0	0	3	3
Segment: 5	52	1	31	1	0	0	0	16	5
Segment: 6	43	1	28	1	0	0	0	12	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.2	150	5.174	1	0.026	0	56	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Abstain	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Abstain	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Abstain N/A
6	Ameren - Ameren Services	Robert Quinlivan		Abstain N/A
3	Santee Cooper	Vicky Budreau		Abstain N/A
5	Santee Cooper	Don Cribb		Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Abstain N/A
6	Santee Cooper	Marty Watson		Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea		Abstain N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Abstain N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Abstain N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Abstain	N/A
2	Independent Electricity System Operator	Helen Lainis		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Abstain	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Abstain	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Abstain	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Abstain	N/A
1	Great River Energy	Gordon Pietsch		Abstain	N/A
3	Great River Energy	Michael Brytowski		Abstain	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Abstain	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Abstain	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Abstain	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Abstain	N/A
6	Muscatine Power and Water	Nicholas Burns		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Abstain	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Abstain	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Operating Reserve – Supplemental FN 2 DEF**Voting Start Date:** 12/11/2023 11:42:33 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:38:28 PM**Weighted Segment Value:** 99.52

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	40	1	0	0	0	13	11
Segment: 2	8	0.4	4	0.4	0	0	0	2	2
Segment: 3	52	1	39	0.975	1	0.025	0	9	3
Segment: 4	9	0.3	3	0.3	0	0	0	3	3
Segment: 5	52	1	32	1	0	0	0	15	5
Segment: 6	43	1	29	1	0	0	0	11	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.2	152	5.175	1	0.025	0	54	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Abstain	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Abstain	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Abstain N/A
6	Ameren - Ameren Services	Robert Quinlivan		Abstain N/A
3	Santee Cooper	Vicky Budreau		Abstain N/A
5	Santee Cooper	Don Cribb		Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Abstain N/A
6	Santee Cooper	Marty Watson		Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea		Abstain N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Abstain N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Abstain N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

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2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Abstain	N/A
1	Muscatine Power and Water	Andrew Kurriger		Abstain	N/A
2	Independent Electricity System Operator	Helen Lainis		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Abstain	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Abstain	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Abstain	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Abstain	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Abstain	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Abstain	N/A
1	Great River Energy	Gordon Pietsch		Abstain	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Abstain	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Abstain	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Abstain	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Abstain	N/A
6	Muscatine Power and Water	Nicholas Burns		Abstain	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Overlap Regulation Service FN 2 DEF

Voting Start Date: 12/11/2023 11:43:12 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 207

Total Ballot Pool: 234

Quorum: 88.46

Quorum Established Date: 12/11/2023 2:38:36 PM

Weighted Segment Value: 97.81

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	47	0.979	1	0.021	0	5	11
Segment: 2	8	0.5	5	0.5	0	0	0	1	2
Segment: 3	52	1	43	0.956	2	0.044	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	52	1	38	0.974	1	0.026	0	8	5
Segment: 6	43	1	33	0.971	1	0.029	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.5	176	5.38	5	0.12	0	26	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

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2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	N/A
6	Duke Energy	John Sturgeon		Negative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
5	Choctaw Generation Limited Partnership, LLLP	Rob Watson		Affirmative	N/A
	Edison International - Southern California				

3	Edison Company	Romel Aquino	Negative	N/A
6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Pseudo-Tie FN 2 DEF

Voting Start Date: 12/11/2023 11:43:47 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 206

Total Ballot Pool: 233

Quorum: 88.41

Quorum Established Date: 12/11/2023 2:37:10 PM

Weighted Segment Value: 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	184	5.578	1	0.022	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Ramp Rate or Ramp FN 2 DEF

Voting Start Date: 12/11/2023 11:44:18 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 206

Total Ballot Pool: 233

Quorum: 88.41

Quorum Established Date: 12/11/2023 2:38:44 PM

Weighted Segment Value: 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	184	5.578	1	0.022	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Regulation Service FN 2 DEF

Voting Start Date: 12/11/2023 11:44:55 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 206

Total Ballot Pool: 233

Quorum: 88.41

Quorum Established Date: 12/11/2023 2:37:55 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	48	1	0	0	0	5	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	38	1	0	0	0	8	5
Segment: 6	43	1	34	1	0	0	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	180	5.578	1	0.022	0	25	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

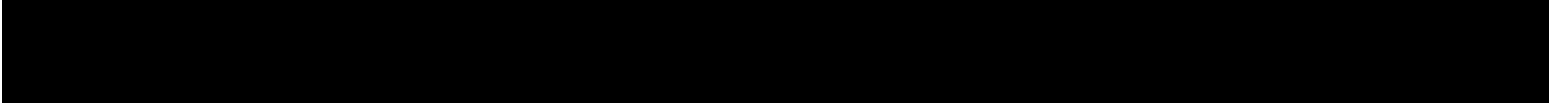
2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Reportable Balancing Contingency Event (RBCE) FN 2 DEF**Voting Start Date:** 12/11/2023 11:45:31 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 206**Total Ballot Pool:** 233**Quorum:** 88.41**Quorum Established Date:** 12/11/2023 2:39:45 PM**Weighted Segment Value:** 97.82

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	47	1	0	0	0	6	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	37	1	0	0	0	9	5
Segment: 6	43	1	34	1	0	0	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	4	0.4	1	0.1	0	1	0
Totals:	233	5.6	177	5.478	2	0.122	0	27	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Abstain N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Negative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Reporting Area Control Error (Reporting ACE) FN 3 DEF**Voting Start Date:** 12/11/2023 11:30:06 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 3**Total # Votes:** 204**Total Ballot Pool:** 233**Quorum:** 87.55**Quorum Established Date:** 12/11/2023 2:34:39 PM**Weighted Segment Value:** 94.86

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	46	0.939	3	0.061	0	8	7
Segment: 2	8	0.7	7	0.7	0	0	0	0	1
Segment: 3	52	1	38	0.95	2	0.05	0	5	7
Segment: 4	9	0.4	4	0.4	0	0	0	1	4
Segment: 5	51	1	32	0.914	3	0.086	0	11	5
Segment: 6	43	1	30	0.909	3	0.091	0	5	5
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	162	5.312	11	0.288	0	31	29

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Abstain	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		None	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Negative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	N/A
6	Evergy	Tiffany Lake	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion	Stephen Whaite	Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreouiu		Negative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A

6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Affirmative N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Abstain N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Affirmative N/A
5	Xcel Energy, Inc.	Gerry Huit		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		None N/A
2	Southwest Power Pool, Inc. (RTO)	Matthew Harward	Shannon Mickens	Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Affirmative N/A
2	ISO New England, Inc.	John Pearson		Affirmative N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative N/A

6	Platte River Power Authority	Sabrina Martz		Abstain	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Abstain	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		None	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Negative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		None	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A

Denise

5	Imperial Irrigation District	Tino Zaragoza	Sanchez	Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Negative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		None	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		Affirmative	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		Affirmative	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert	Donovan Crane	Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Negative	N/A
1	National Grid USA	Michael Jones		Abstain	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Affirmative	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray		Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Affirmative	N/A
6	Imperial Irrigation District	Diana Torres	Denise Sanchez	Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Abstain	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		Affirmative	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Affirmative	N/A

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Affirmative	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee	Michael Johnson	Abstain	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		Affirmative	N/A
3	Exelon	Kinte Whitehead		None	N/A
1	Exelon	Daniel Gacek		Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		Abstain	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		Abstain	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Abstain	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		None	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz	Denise Sanchez	Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		Abstain	N/A
6	Lincoln Electric System	Eric Ruskamp		None	N/A
3	Lincoln Electric System	Sam Christensen		None	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A

1	Austin Energy	Thomas Standifur		None	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner	Denise Sanchez	Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Abstain	N/A
5	Orlando Utilities Commission	Dania Colon		Abstain	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		None	N/A
3	National Grid USA	Brian Shanahan		None	N/A
1	Entergy	Brian Lindsey		None	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Sarah Blankenship	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis	Michael Johnson	Abstain	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		None	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Abstain	N/A
6	Portland General Electric Co.	Stefanie Burke		None	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		None	N/A

6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	Affirmative	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	Affirmative	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group (RSG) FN 2 DEF**Voting Start Date:** 12/11/2023 11:46:33 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 206**Total Ballot Pool:** 233**Quorum:** 88.41**Quorum Established Date:** 12/11/2023 2:39:56 PM**Weighted Segment Value:** 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	184	5.578	1	0.022	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

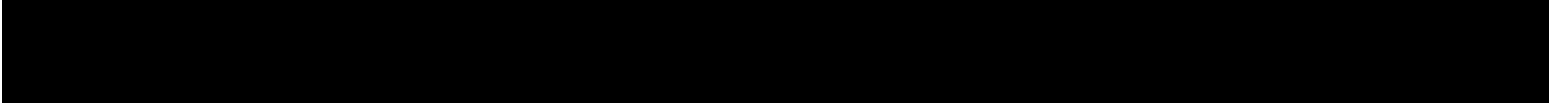
2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Reserve Sharing Group Reporting ACE FN 2 DEF**Voting Start Date:** 12/11/2023 11:47:19 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 207**Total Ballot Pool:** 234**Quorum:** 88.46**Quorum Established Date:** 12/11/2023 2:40:31 PM**Weighted Segment Value:** 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	47	1	0	0	0	7	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	4	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	37	1	0	0	0	9	5
Segment: 6	43	1	34	1	0	0	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	178	5.578	1	0.022	0	28	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Abstain N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
6	Lakeland Electric	Paul Shipp		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		Abstain	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A

6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Frequency FN 2 DEF**Voting Start Date:** 12/11/2023 11:47:56 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 206**Total Ballot Pool:** 233**Quorum:** 88.41**Quorum Established Date:** 12/11/2023 2:40:58 PM**Weighted Segment Value:** 99.61

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	184	5.578	1	0.022	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

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2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish	John D. Martinsen		Affirmative	N/A

	County			
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Katherine Street		Affirmative N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain N/A
6	Imperial Irrigation District	Diana Torres		Affirmative N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None N/A
5	National Grid USA	Robin Berry		Affirmative N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative N/A
1	Avista - Avista Corporation	Mike Magruder		None N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A

6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Scheduled Net Interchange (NIS)
FN 2 DEF**Voting Start Date:** 12/11/2023 11:48:32 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 206**Total Ballot Pool:** 233**Quorum:** 88.41**Quorum Established Date:** 12/11/2023 2:40:49 PM**Weighted Segment Value:** 97.89

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	48	0.98	1	0.02	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.957	2	0.043	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	38	0.974	1	0.026	0	7	5
Segment: 6	43	1	34	0.971	1	0.029	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	180	5.482	5	0.118	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Negative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

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2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish	John D. Martinsen		Affirmative	N/A

	County			
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Katherine Street		Affirmative N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain N/A
6	Imperial Irrigation District	Diana Torres		Affirmative N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None N/A
5	National Grid USA	Robin Berry		Affirmative N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative N/A
1	Avista - Avista Corporation	Mike Magruder		None N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A

6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Supplemental Regulation Service FN 2 DEF

Voting Start Date: 12/11/2023 11:49:10 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 206

Total Ballot Pool: 233

Quorum: 88.41

Quorum Established Date: 12/11/2023 2:40:40 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	48	1	0	0	0	5	11
Segment: 2	8	0.5	5	0.5	0	0	0	1	2
Segment: 3	52	1	45	0.978	1	0.022	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	38	1	0	0	0	8	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.5	181	5.478	1	0.022	0	24	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Affirmative N/A
5	Santee Cooper	Don Cribb		Affirmative N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain N/A
1	Santee Cooper	Chris Wagner		Affirmative N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Affirmative N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Abstain N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Abstain	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish	John D. Martinsen		Affirmative	N/A

	County			
1	Nebraska Public Power District	Jamison Cawley		Affirmative N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative N/A
6	Duke Energy	John Sturgeon		Affirmative N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative N/A
1	Great River Energy	Gordon Pietsch		Affirmative N/A
3	Great River Energy	Michael Brytowski		Affirmative N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative N/A
5	Duke Energy	Dale Goodwine		Affirmative N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative N/A
6	Powerex Corporation	Raj Hundal		Affirmative N/A
1	National Grid USA	Michael Jones		Affirmative N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative N/A
1	Duke Energy	Katherine Street		Affirmative N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain N/A
6	Imperial Irrigation District	Diana Torres		Affirmative N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None N/A
5	National Grid USA	Robin Berry		Affirmative N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative N/A
1	Avista - Avista Corporation	Mike Magruder		None N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative N/A

5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A

6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Modified - Tie Line Bias (TLB) FN 2 DEF**Voting Start Date:** 12/11/2023 11:49:42 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 206**Total Ballot Pool:** 233**Quorum:** 88.41**Quorum Established Date:** 12/11/2023 2:40:23 PM**Weighted Segment Value:** 99.59

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	47	1	0	0	0	6	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.977	1	0.023	0	5	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	37	1	0	0	0	9	5
Segment: 6	43	1	33	1	0	0	0	7	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	176	5.577	1	0.023	0	29	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A

5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative N/A
6	Omaha Public Power District	Shonda McCain		Affirmative N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain N/A
2	California ISO	Darcy O'Connell		Affirmative N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative N/A
3	Manitoba Hydro	Mike Smith		Affirmative N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative N/A
3	Santee Cooper	Vicky Budreau		Abstain N/A
5	Santee Cooper	Don Cribb		Abstain N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative N/A
1	Santee Cooper	Chris Wagner		Abstain N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative N/A
6	Santee Cooper	Marty Watson		Abstain N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain N/A

Kathleen

2	ISO New England, Inc.	John Pearson	Goodman	None	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error (TE) FN 2 DEF

Voting Start Date: 12/11/2023 11:50:15 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 206

Total Ballot Pool: 233

Quorum: 88.41

Quorum Established Date: 12/11/2023 2:40:14 PM

Weighted Segment Value: 97.89

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	48	0.98	1	0.02	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.957	2	0.043	0	3	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	38	0.974	1	0.026	0	7	5
Segment: 6	43	1	34	0.971	1	0.029	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	180	5.482	5	0.118	0	21	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A

York

1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A

3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A

1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Negative	N/A
6	Duke Energy	John Sturgeon		Negative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Negative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Negative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Affirmative	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Modified - Time Error Correction (TEC) FN 2 DEF

Voting Start Date: 12/11/2023 11:50:45 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 206

Total Ballot Pool: 233

Quorum: 88.41

Quorum Established Date: 12/11/2023 2:40:05 PM

Weighted Segment Value: 99.59

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	47	1	0	0	0	6	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	43	0.977	1	0.023	0	5	3
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	37	1	0	0	0	9	5
Segment: 6	43	1	33	1	0	0	0	7	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	176	5.577	1	0.023	0	29	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A

York

1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Abstain	N/A
5	Santee Cooper	Don Cribb		Abstain	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Abstain	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
6	Santee Cooper	Marty Watson		Abstain	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A

3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A

1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		Abstain	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Abstain	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Abstain	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Abstain	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Retirement - Disturbance Control Standard FN 2 DEF

Voting Start Date: 12/11/2023 11:51:18 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 205

Total Ballot Pool: 233

Quorum: 87.98

Quorum Established Date: 12/11/2023 2:39:37 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	183	5.578	1	0.022	0	21	28

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A

York

1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A

3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Interchange Schedule FN 2 DEF

Voting Start Date: 12/11/2023 11:52:42 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 205

Total Ballot Pool: 233

Quorum: 87.98

Quorum Established Date: 12/11/2023 2:38:55 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	183	5.578	1	0.022	0	21	28

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreouiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A

York

1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A

3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldts		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A

1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Retirement - Net Scheduled Interchange FN 2 DEF**Voting Start Date:** 12/11/2023 11:53:21 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** DEF**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 205**Total Ballot Pool:** 233**Quorum:** 87.98**Quorum Established Date:** 12/11/2023 2:38:11 PM**Weighted Segment Value:** 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	64	1	49	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	233	5.6	183	5.578	1	0.022	0	21	28

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A

York

1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A

3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldts		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A

1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A

5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A

1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
	Edison International - Southern California				

6	Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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Ballot Results

Ballot Name: 2022-01 Reporting ACE Definition and Associated Terms Retirement - Reportable Disturbance FN 2 DEF

Voting Start Date: 12/11/2023 11:53:58 AM

Voting End Date: 12/20/2023 8:00:00 PM

Ballot Type: DEF

Ballot Activity: FN

Ballot Series: 2

Total # Votes: 206

Total Ballot Pool: 234

Quorum: 88.03

Quorum Established Date: 12/11/2023 2:37:02 PM

Weighted Segment Value: 99.6

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	65	1	50	1	0	0	0	4	11
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	52	1	44	0.978	1	0.022	0	3	4
Segment: 4	9	0.5	5	0.5	0	0	0	1	3
Segment: 5	51	1	39	1	0	0	0	7	5
Segment: 6	43	1	35	1	0	0	0	5	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	234	5.6	184	5.578	1	0.022	0	21	28

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
5	Manitoba Hydro	Kristy-Lee Young		Affirmative	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Affirmative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Affirmative	N/A
5	Southern Company - Southern Company Generation	Leslie Burke		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A

York

1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
3	Santee Cooper	Vicky Budreau		Affirmative	N/A
5	Santee Cooper	Don Cribb		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Affirmative	N/A
1	Santee Cooper	Chris Wagner		Affirmative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A
6	Santee Cooper	Marty Watson		Affirmative	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
4	WEC Energy Group, Inc.	Matthew Beilfuss		Affirmative	N/A
5	Xcel Energy, Inc.	Gerry Huitt		Affirmative	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Affirmative	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A

3	Xcel Energy, Inc.	Nicholas Friebel		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A
2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Affirmative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Affirmative	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
5	Constellation	Alison MacKellar		Abstain	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A

4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Affirmative	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A
1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A

10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		Affirmative	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
1	KAMO Electric Cooperative	Micah Breedlove		None	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrold Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Affirmative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Affirmative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allele - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A

3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A
1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Affirmative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
1	Hydro One Networks, Inc.	Alain Mukama		Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
3	Northeast Missouri Electric Power Cooperative	Skyler Wiegmann		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Affirmative	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A

6	Edison International - Southern California Edison Company	Stephanie Kenny	None	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte	None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi	None	N/A



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[Login](#) / [Register](#)**Ballot Results****Ballot Name:** 2022-01 Reporting ACE Definition and Associated Terms Implementation Plan FN 2 OT**Voting Start Date:** 12/11/2023 11:54:46 AM**Voting End Date:** 12/20/2023 8:00:00 PM**Ballot Type:** OT**Ballot Activity:** FN**Ballot Series:** 2**Total # Votes:** 201**Total Ballot Pool:** 228**Quorum:** 88.16**Quorum Established Date:** 12/11/2023 2:36:44 PM**Weighted Segment Value:** 93.98

Actions

Segment	Ballot Pool	Segment Weight	Affirmative Votes	Affirmative Fraction	Negative Votes w/ Comment	Negative Fraction w/ Comment	Negative Votes w/o Comment	Abstain	No Vote
Segment: 1	63	1	44	0.936	3	0.064	0	6	10
Segment: 2	8	0.6	6	0.6	0	0	0	0	2
Segment: 3	51	1	40	0.909	4	0.091	0	3	4
Segment: 4	8	0.4	4	0.4	0	0	0	1	3
Segment: 5	50	1	32	0.914	3	0.086	0	10	5
Segment: 6	42	1	30	0.909	3	0.091	0	6	3
Segment: 7	0	0	0	0	0	0	0	0	0
Segment: 8	0	0	0	0	0	0	0	0	0

Segment: 9	0	0	0	0	0	0	0	0	0
Segment: 10	6	0.5	5	0.5	0	0	0	1	0
Totals:	228	5.5	161	5.169	13	0.331	0	27	27

Ballot Pool Members

Segment	Organization	Voter	Designated Proxy	Ballot	NERC Memo
3	Los Angeles Department of Water and Power	Tony Skourtas		Abstain	N/A
6	Los Angeles Department of Water and Power	Anton Vu		Abstain	N/A
1	Tri-State G and T Association, Inc.	Donna Wood		Abstain	N/A
1	Xcel Energy, Inc.	Eric Barry		Affirmative	N/A
5	Los Angeles Department of Water and Power	Glenn Barry		Abstain	N/A
6	Omaha Public Power District	Shonda McCain		Affirmative	N/A
5	Bonneville Power Administration	Pamela Van Calcar		Affirmative	N/A
3	Evergy	Marcus Moor	Alan Kloster	Affirmative	N/A
2	Southwest Power Pool, Inc. (RTO)	Joshua Phillips		Affirmative	N/A
4	Alliant Energy Corporation Services, Inc.	Larry Heckert		Affirmative	N/A
5	Tri-State G and T Association, Inc.	Sergio Banuelos		Abstain	N/A
5	Evergy	Jeremy Harris	Alan Kloster	Affirmative	N/A
5	Greybeard Compliance Services, LLC	Mike Gabriel		Abstain	N/A
5	APS - Arizona Public Service Co.	Andrew Smith		Affirmative	N/A
3	APS - Arizona Public Service Co.	Jessica Lopez		Affirmative	N/A
1	FirstEnergy - FirstEnergy Corporation	Theresa Ciancio		Abstain	N/A
6	Con Ed - Consolidated Edison Co. of New York	Jason Chandler		Affirmative	N/A
1	Manitoba Hydro	Nazra Gladu		Affirmative	N/A
5	Con Ed - Consolidated Edison Co. of New York	Helen Wang		Affirmative	N/A
4	FirstEnergy - FirstEnergy Corporation	Mark Garza		Abstain	N/A
6	FirstEnergy - FirstEnergy Corporation	Stacey Sheehan		Abstain	N/A
2	ISO New England, Inc.	John Pearson	Kathleen Goodman	None	N/A
1	Con Ed - Consolidated Edison Co. of New York	Dermot Smyth		Affirmative	N/A
3	Xcel Energy, Inc.	Nicholas Friebe		Affirmative	N/A
6	Dominion - Dominion Resources, Inc.	Sean Bodkin		Affirmative	N/A
6	WEC Energy Group, Inc.	David Boeshaar		Affirmative	N/A
1	Tennessee Valley Authority	David Plumb		Affirmative	N/A
3	Con Ed - Consolidated Edison Co. of New York	Peter Yost		Affirmative	N/A
3	Manitoba Hydro	Mike Smith		Affirmative	N/A
6	Platte River Power Authority	Sabrina Martz		Affirmative	N/A
2	PJM Interconnection, L.L.C.	Thomas Foster	Elizabeth Davis	Affirmative	N/A

2	Midcontinent ISO, Inc.	Bobbi Welch		Affirmative	N/A
1	Muscatine Power and Water	Andrew Kurriger		Affirmative	N/A
2	Independent Electricity System Operator	Helen Lainis		Affirmative	N/A
5	Avista - Avista Corporation	Glen Farmer		Affirmative	N/A
1	Evergy	Kevin Frick	Alan Kloster	Affirmative	N/A
1	Platte River Power Authority	Marissa Archie		Affirmative	N/A
6	Manitoba Hydro	Kelly Bertholet		Affirmative	N/A
3	Tennessee Valley Authority	Ian Grant		Affirmative	N/A
6	APS - Arizona Public Service Co.	Marcus Bortman		Affirmative	N/A
3	Dominion - Dominion Virginia Power	Bill Garvey		Affirmative	N/A
1	Dairyland Power Cooperative	Karrie Schuldt		Affirmative	N/A
1	OGE Energy - Oklahoma Gas and Electric Co.	Terri Pyle		Affirmative	N/A
3	Omaha Public Power District	David Heins		Affirmative	N/A
3	NiSource - Northern Indiana Public Service Co.	Steven Taddeucci		Affirmative	N/A
10	Northeast Power Coordinating Council	Gerry Dunbar		Abstain	N/A
1	Dominion - Dominion Virginia Power	Elizabeth Weber		Affirmative	N/A
3	Salt River Project	Mathew Weber	Israel Perez	Affirmative	N/A
3	WEC Energy Group, Inc.	Christine Kane		Affirmative	N/A
3	OGE Energy - Oklahoma Gas and Electric Co.	Donald Hargrove		Affirmative	N/A
6	Ameren - Ameren Services	Robert Quinlivan		Affirmative	N/A
1	PNM Resources - Public Service Company of New Mexico	Lynn Goldstein		Affirmative	N/A
5	Berkshire Hathaway - NV Energy	Dwanique Spiller	Casey Jones	Affirmative	N/A
5	Salt River Project	Jennifer Bennett	Israel Perez	Affirmative	N/A
10	ReliabilityFirst	Lindsey Mannion		Affirmative	N/A
3	Snohomish County PUD No. 1	Holly Chaney		Affirmative	N/A
6	Entergy	Julie Hall		Negative	N/A
6	OGE Energy - Oklahoma Gas and Electric Co.	Ashley F Stringer		Affirmative	N/A
6	Tennessee Valley Authority	Armando Rodriguez		Affirmative	N/A
1	Los Angeles Department of Water and Power	faranak sarbaz		Abstain	N/A
5	BC Hydro and Power Authority	Quincy Wang		Abstain	N/A
6	Lakeland Electric	Paul Shipps		None	N/A
5	Platte River Power Authority	Jon Osell		Affirmative	N/A
3	Platte River Power Authority	Richard Kiess		Affirmative	N/A
1	International Transmission Company Holdings Corporation	Michael Moltane	Gail Elliott	Affirmative	N/A
6	Tacoma Public Utilities (Tacoma, WA)	Terry Gifford	Jennie Wike	None	N/A
5	FirstEnergy - FirstEnergy Corporation	Matthew Augustin		Abstain	N/A
6	Arkansas Electric Cooperative Corporation	Bruce Walkup		Abstain	N/A
3	Arkansas Electric Cooperative Corporation	Ayslynn Mcavoy		Affirmative	N/A
6	Western Area Power Administration	Jennifer Neville		Affirmative	N/A
1	Southern Company - Southern Company Services, Inc.	Matt Carden		Negative	N/A
5	Constellation	Alison MacKellar		Abstain	N/A

5	Southern Company - Southern Company Generation	Leslie Burke		Negative	N/A
3	Southern Company - Alabama Power Company	Joel Dembowski		Negative	N/A
6	Southern Company - Southern Company Generation	Ron Carlsen		Negative	N/A
5	Dominion - Dominion Resources, Inc.	Anna Salmon		Affirmative	N/A
4	Tacoma Public Utilities (Tacoma, WA)	Hien Ho	Jennie Wike	None	N/A
1	Public Utility District No. 1 of Snohomish County	Alyssia Rhoads		Affirmative	N/A
1	Western Area Power Administration	Ben Hammer		Affirmative	N/A
5	WEC Energy Group, Inc.	Clarice Zellmer		Affirmative	N/A
4	Austin Energy	Tony Hua		None	N/A
1	NB Power Corporation	Jeffrey Streifling		Affirmative	N/A
4	Public Utility District No. 1 of Snohomish County	John D. Martinsen		Affirmative	N/A
1	Nebraska Public Power District	Jamison Cawley		Affirmative	N/A
5	Imperial Irrigation District	Tino Zaragoza		Affirmative	N/A
5	Public Utility District No. 1 of Snohomish County	Becky Burden		Affirmative	N/A
6	Snohomish County PUD No. 1	John Liang		Affirmative	N/A
2	California ISO	Darcy O'Connell		Affirmative	N/A
1	Ameren - Ameren Services	Tamara Evey		Affirmative	N/A
3	Duke Energy - Florida Power Corporation	Marcelo Pesantez		Affirmative	N/A
3	Nebraska Public Power District	Tony Eddleman		Affirmative	N/A
6	Duke Energy	John Sturgeon		Affirmative	N/A
4	Public Utility District No. 2 of Grant County, Washington	Karla Weaver		Affirmative	N/A
6	Evergy	Jennifer Flandermeyer	Alan Kloster	Affirmative	N/A
3	Tri-State G and T Association, Inc.	Ryan Walter		None	N/A
1	OTP - Otter Tail Power Company	Charles Wicklund		None	N/A
5	OTP - Otter Tail Power Company	Stacy Wahlund		None	N/A
3	PPL - Louisville Gas and Electric Co.	James Frank		Affirmative	N/A
1	Glencoe Light and Power Commission	Terry Volkmann		Affirmative	N/A
1	Great River Energy	Gordon Pietsch		Affirmative	N/A
3	Great River Energy	Michael Brytowski		Affirmative	N/A
6	NiSource - Northern Indiana Public Service Co.	Joseph OBrien		Affirmative	N/A
1	NiSource - Northern Indiana Public Service Co.	Alison Nickells		Affirmative	N/A
10	Western Electricity Coordinating Council	Steven Rueckert		Affirmative	N/A
5	Duke Energy	Dale Goodwine		Affirmative	N/A
5	Nebraska Public Power District	Ronald Bender		Affirmative	N/A
6	Powerex Corporation	Raj Hundal		Abstain	N/A
1	National Grid USA	Michael Jones		Affirmative	N/A

1	NextEra Energy - Florida Power and Light Co.	Silvia Mitchell		Abstain	N/A
1	Arizona Electric Power Cooperative, Inc.	Jennifer Bray	David Hartman	Affirmative	N/A
3	Associated Electric Cooperative, Inc.	Todd Bennett		Affirmative	N/A
3	NextEra Energy - Florida Power and Light Co.	Karen Demos		Abstain	N/A
1	Duke Energy	Katherine Street		Affirmative	N/A
5	OGE Energy - Oklahoma Gas and Electric Co.	Patrick Wells		Affirmative	N/A
6	NextEra Energy - Florida Power and Light Co.	Justin Welty		Abstain	N/A
6	Imperial Irrigation District	Diana Torres		Affirmative	N/A
1	IDACORP - Idaho Power Company	Sean Steffensen		None	N/A
1	Tacoma Public Utilities (Tacoma, WA)	John Merrell	Jennie Wike	None	N/A
3	FirstEnergy - FirstEnergy Corporation	Aaron Ghodooshim		Abstain	N/A
5	PSEG Nuclear LLC	Tim Kucey		Affirmative	N/A
3	Seminole Electric Cooperative, Inc.	Marc Sedor		None	N/A
5	National Grid USA	Robin Berry		Affirmative	N/A
2	Electric Reliability Council of Texas, Inc.	Kennedy Meier		Affirmative	N/A
3	PSEG - Public Service Electric and Gas Co.	Christopher Murphy		Affirmative	N/A
6	PSEG - PSEG Energy Resources and Trade LLC	Laura Wu		Affirmative	N/A
5	Xcel Energy, Inc.	Gerry Huit		Affirmative	N/A
6	Sacramento Municipal Utility District	Charles Norton	Tim Kelley	Affirmative	N/A
1	Avista - Avista Corporation	Mike Magruder		None	N/A
1	Berkshire Hathaway Energy - MidAmerican Energy Co.	Terry Harbour		Affirmative	N/A
1	APS - Arizona Public Service Co.	Daniela Atanasovski		Affirmative	N/A
10	Midwest Reliability Organization	Mark Flanary		Affirmative	N/A
5	NextEra Energy	Richard Vendetti		Abstain	N/A
5	NiSource - Northern Indiana Public Service Co.	Kathryn Tackett		Affirmative	N/A
1	Bonneville Power Administration	Kamala Rogers-Holliday		Affirmative	N/A
3	Black Hills Corporation	Josh Combs		Affirmative	N/A
6	Black Hills Corporation	Rachel Schuldt		Affirmative	N/A
3	Muscatine Power and Water	Seth Shoemaker		Affirmative	N/A
5	Muscatine Power and Water	Neal Nelson		Affirmative	N/A
6	Muscatine Power and Water	Nicholas Burns		None	N/A
5	Pacific Gas and Electric Company	Frank Lee		None	N/A
5	Dairyland Power Cooperative	Tommy Drea		Affirmative	N/A
3	Avista - Avista Corporation	Robert Follini		Affirmative	N/A
3	Bonneville Power Administration	Ron Sporseen		Affirmative	N/A
4	Sacramento Municipal Utility District	Foung Mua	Tim Kelley	Affirmative	N/A
5	Santee Cooper	Don Cribb		Negative	N/A
6	Santee Cooper	Marty Watson		Negative	N/A
1	Santee Cooper	Chris Wagner		Negative	N/A
3	Santee Cooper	Vicky Budreau		Negative	N/A
5	Ameren - Ameren Missouri	Sam Dwyer		Affirmative	N/A

3	OTP - Otter Tail Power Company	Wendi Olson		None	N/A
6	PPL - Louisville Gas and Electric Co.	Linn Oelker		Affirmative	N/A
1	BC Hydro and Power Authority	Adrian Andreoiu		Abstain	N/A
5	Sacramento Municipal Utility District	Ryder Couch	Tim Kelley	Affirmative	N/A
3	Ameren - Ameren Services	David Jendras Sr		Affirmative	N/A
1	PPL Electric Utilities Corporation	Michelle McCartney Longo		Affirmative	N/A
6	Bonneville Power Administration	Tanner Brier		Affirmative	N/A
6	Constellation	Kimberly Turco		Abstain	N/A
1	Associated Electric Cooperative, Inc.	Mark Riley		Affirmative	N/A
3	Exelon	Kinte Whitehead		Affirmative	N/A
1	Exelon	Daniel Gacek	Rajesh Geevarghese	Affirmative	N/A
1	American Transmission Company, LLC	Amy Wilke		None	N/A
6	Xcel Energy, Inc.	Carrie Dixon	Joseph Gatten	Affirmative	N/A
1	Unisource - Tucson Electric Power Co.	Sam Rugel		None	N/A
6	Great River Energy	Brian Meloy		Affirmative	N/A
5	Associated Electric Cooperative, Inc.	Chuck Booth		Affirmative	N/A
3	M and A Electric Power Cooperative	Gary Dollins		Affirmative	N/A
3	NW Electric Power Cooperative, Inc.	Heath Henry		Affirmative	N/A
3	KAMO Electric Cooperative	Tony Gott		Affirmative	N/A
3	Sho-Me Power Electric Cooperative	Jarrod Murdaugh		Affirmative	N/A
5	Colorado Springs Utilities	Jeffrey Icke		Abstain	N/A
1	M and A Electric Power Cooperative	William Price		Affirmative	N/A
1	Seminole Electric Cooperative, Inc.	Kristine Ward		None	N/A
1	Eversource Energy	Joshua London		None	N/A
1	Central Iowa Power Cooperative	Kevin Lyons		Affirmative	N/A
5	Black Hills Corporation	Sheila Suurmeier		Affirmative	N/A
3	Central Electric Power Cooperative (Missouri)	Adam Weber		Affirmative	N/A
4	Seminole Electric Cooperative, Inc.	Ken Habgood		None	N/A
1	Northeast Missouri Electric Power Cooperative	Brett Douglas		Affirmative	N/A
3	Entergy	James Keele		Negative	N/A
5	Seminole Electric Cooperative, Inc.	Melanie Wong		None	N/A
5	Entergy - Entergy Services, Inc.	Gail Golden		Negative	N/A
1	Imperial Irrigation District	Jesus Sammy Alcaraz		Affirmative	N/A
3	Sacramento Municipal Utility District	Nicole Looney	Tim Kelley	Affirmative	N/A
1	Allete - Minnesota Power, Inc.	Hillary Creurer		None	N/A
6	Lincoln Electric System	Eric Ruskamp		Affirmative	N/A
3	Lincoln Electric System	Sam Christensen		Affirmative	N/A
1	N.W. Electric Power Cooperative, Inc.	Mark Ramsey		Affirmative	N/A
1	Austin Energy	Thomas Standifur		Abstain	N/A
1	Sacramento Municipal Utility District	Wei Shao	Tim Kelley	Affirmative	N/A
1	Black Hills Corporation	Micah Runner		Affirmative	N/A
3	Imperial Irrigation District	George Kirschner		Affirmative	N/A

1	New York Power Authority	Daniel Valle		Affirmative	N/A
6	New York Power Authority	Shelly Dineen		Affirmative	N/A
5	Ontario Power Generation Inc.	Constantin Chitescu		Abstain	N/A
6	Public Utility District No. 2 of Grant County, Washington	Mike Stussy		Affirmative	N/A
10	SERC Reliability Corporation	Dave Krueger		Affirmative	N/A
1	Pacific Gas and Electric Company	Marco Rios	Michael Johnson	Affirmative	N/A
5	Orlando Utilities Commission	Dania Colon		Affirmative	N/A
5	PPL - Louisville Gas and Electric Co.	JULIE HOSTRANDER		Affirmative	N/A
1	Lincoln Electric System	Josh Johnson		Affirmative	N/A
5	Lincoln Electric System	Brittany Millard		Affirmative	N/A
3	National Grid USA	Brian Shanahan		Affirmative	N/A
1	Entergy	Brian Lindsey		Negative	N/A
3	New York Power Authority	David Rivera		Affirmative	N/A
3	Southern Indiana Gas and Electric Co.	Ryan Snyder		None	N/A
3	Berkshire Hathaway Energy - MidAmerican Energy Co.	Joseph Amato		Affirmative	N/A
5	Tacoma Public Utilities (Tacoma, WA)	Ozan Ferrin	Jennie Wike	None	N/A
1	Salt River Project	Matthew Jaramilla	Israel Perez	Affirmative	N/A
1	CenterPoint Energy Houston Electric, LLC	Daniela Hammons		Affirmative	N/A
6	Salt River Project	Timothy Singh	Israel Perez	Affirmative	N/A
5	Public Utility District No. 1 of Chelan County	Rebecca Zahler		Affirmative	N/A
6	Public Utility District No. 1 of Chelan County	Tamarra Hardie		Affirmative	N/A
3	Public Utility District No. 1 of Chelan County	Joyce Gundry		Affirmative	N/A
10	Texas Reliability Entity, Inc.	Rachel Coyne		Affirmative	N/A
5	Great River Energy	Jacalynn Bentz		Affirmative	N/A
6	Southern Indiana Gas and Electric Co.	Kati Barr		Affirmative	N/A
3	Pacific Gas and Electric Company	Sandra Ellis		Affirmative	N/A
5	Southern Indiana Gas and Electric Co.	Larry Rogers		Affirmative	N/A
1	Public Utility District No. 1 of Chelan County	Diane E Landry		Affirmative	N/A
5	Pattern Operators LP	George E Brown		Abstain	N/A
2	New York Independent System Operator	Gregory Campoli		None	N/A
5	New York Power Authority	Zahid Qayyum		Affirmative	N/A
1	Tallahassee Electric (City of Tallahassee, FL)	Scott Langston		Affirmative	N/A
6	Portland General Electric Co.	Stefanie Burke		Affirmative	N/A
1	Omaha Public Power District	Doug Peterchuck		Affirmative	N/A
3	Edison International - Southern California Edison Company	Romel Aquino		Negative	N/A
1	Hydro-Quebec (HQ)	Nicolas Turcotte		None	N/A
5	Hydro-Quebec (HQ)	Junji Yamaguchi		None	N/A

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms Draft 3

The drafting team (DT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC *Glossary* term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new *Glossary* terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*DT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange – (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	Standards <ul style="list-style-type: none"> BAL-003-2 BAL-004-WECC-3 Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC	Capitalized terms in definition.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interconnection are excluded from Actual Net Interchange.	Interconnection are excluded from Actual Net Interchange.		Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE	Included in Reporting ACE definition.		New definition

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		components to create an ACE value closer to zero for each participant.			
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an entity's Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (<i>purpose</i>) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (<i>current; see proposed revisions</i>); • Disturbance Control Standard (<i>current; proposed for retirement</i>); • Frequency Bias 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based Resource Performance Guideline</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE for compliance purposes.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Setting (<i>current; see proposed revisions</i>); <ul style="list-style-type: none"> Reporting ACE (<i>current and proposed</i>) 		

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
<p>Automatic Time Error Correction – (ATEC)</p>	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p>	<p>The addition of a component, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, “BA_{Island}” to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to reflect each Balancing</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$ $L_{10} = 1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. $Y = B_i / B_s$. 	<p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. 			<p>Authority's share of Time Error impact more accurately.</p> <p>Capitalized NERC defined terms.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{actual} - B_i * \Delta TE/6)$ • II_{actual} is the hourly Inadvertent Interchange for the last hour. 	<ul style="list-style-type: none"> • $Y = B_i/B_s$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz. 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - (t) * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. • TE_{offset} is 0.000 or +0.020 or -0.020. • PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in 	<ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (II_{\text{actual}} - B_i * \Delta TE/6) * BA_{\text{island}}$ • BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. II_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - t * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>MWh. An On-Peak and Off-Peak accumulation accounting is required, where:</p> $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	<p>Interconnection time monitor control center clocks.</p> <ul style="list-style-type: none"> t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the	Added Acronym	Standards <ul style="list-style-type: none"> BAL-003-2 COM-001-3 	Reliability Guideline: Operating Reserve Management	Added Acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Balancing Authority. The Balancing Authority maintains load-resource balance within this area.		<ul style="list-style-type: none"> • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	
Balancing Contingency	Any single event described in Subsections (A), (B), or	Any single event described in Subsections (A), (B), or	Standards BAL-002-3	Reliability Guideline	Added acronym and updated to

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Event – (BCE)	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s ACE.</p>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s Reporting ACE.</p>	<p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>correct NERC defined term.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>			
<p>Control Performance Standard – (CPS)</p>	<p>The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.</p>	<p>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment A) <p>Terms None</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document:</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		and Scheduled Frequency.		Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 <p>Terms</p> <ul style="list-style-type: none"> • Disturbance Control 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs</p> <p>Methods for Establishing IROs</p>	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			Standard (<i>proposed for retirement</i>); <ul style="list-style-type: none"> Disturbance Monitoring Equipment 	Reliability Guideline: Generating Unit Operations During Complete Loss of Communications Inverter-Based Resource Performance Guideline Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018 Load Composition Guideline Reliability Guideline: Model Verification of Aggregate DER	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	RETIRE	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	RETIRE
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ control ACE equations (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting ACE	Standards <ul style="list-style-type: none"> BAL-002-WECC-3 INT-009-3 Terms Scheduled Net Interchange (NIS) <i>(current and proposed)</i>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Eliminated the word “equation” for consistency and eliminated the parenthetical which has no

Table 1: Retired, Modified, or Newly Proposed Definitions

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					known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority’s Area Control Error equation to account for the Balancing Authority’s inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority’s Reporting ACE to account for the Balancing Authority’s Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the Actual Frequency and the Scheduled Frequency. ($F_A - F_S$)	Standards: <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Term: <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled	The difference between the Balancing Authority's Actual Net Interchange and Scheduled Net Interchange.	Standards BAL-004-WECC-3 Terms	Technical Reference Document: Balancing and	Updated to correct NERC defined terms and correct acronyms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interchange. (IA – IS)	(NI _A – NI _S)	<ul style="list-style-type: none"> Automatic Time Error Correction (I_{ATEC}) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Reliability Guideline: Inadvertent Interchange	
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The I _{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to	Standards None Terms Reporting Ace (<i>proposed</i>)		New term to NERC glossary

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		coordinate an inadvertent control methodology for an Interconnection.			
Interchange Meter Error - (IME)	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in Reporting ACE to compensate for data or equipment errors affecting any other components of Reporting ACE.	<p>Standards None</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word “calculation” for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction.	No changes	<p>Standards MOD-028-2</p> <p>Terms</p> <ul style="list-style-type: none"> Dynamic Interchange Schedule or Dynamic Schedule (<i>current and proposed</i>); Net Interchange 	Technical Reference Document: Balancing and Frequency Control Methods for Establishing IROLs	Team reviewed and determined no changes

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			Schedule <i>(proposed for retirement);</i> <ul style="list-style-type: none"> • Net Scheduled Interchange <i>(proposed for retirement);</i> • Ramp Rate or Ramp <i>(see proposed revisions);</i> • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias <i>(current and</i> 		

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>proposed)</i>		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE .	Standards None Terms <ul style="list-style-type: none"> Reliability Adjustment; Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of:	The portion of Operating Reserve consisting of:	Standards BAL-002-WECC-3	Reliability Guideline: Operating Reserve	Utilized proper capitalization on terms that are not

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	<ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance recovery period following the contingency vent; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Terms None</p>	<p>Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	<p>NERC defined.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	<p>Utilized proper capitalization on terms that are not NERC defined.</p>
Overlap Regulation Service	<p>A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing</p>	<p>A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority's</p>	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 <p>Terms None</p>	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability</p>	<p>Update to the NERC defined term "Reporting ACE", "Actual Net Interchange", "Scheduled Net Interchange" and</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Authority’s actual interchange, frequency response, and schedules into providing Balancing Authority’s AGC/ACE equation.	Actual Net Interchange, Scheduled Net Interchange, and response to Interconnection Frequency Error.		Standards	“response to Interconnection Frequency Error”, to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed; no changes determined	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology and grammatical changes to improve understanding.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE .	Standards <ul style="list-style-type: none"> • BAL-005-1 • BAL-002-WECC-3 • INT-009-3 Terms Actual Net Interchange (<i>current and proposed</i>)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the Interchange Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications	Capitalized NERC defined terms within the definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Inverter-Based Resource Performance Guideline Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p> <p>Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p>	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 <p>Terms</p> <ul style="list-style-type: none"> Overlap Regulation Service (<i>proposed</i>); 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

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	as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	as specified by NERC for itself and the Balancing Authority for which it is providing the corrective response .	<ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>) 		
Reporting Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction _(ATEC) . Reporting ACE is calculated as follows: Reporting ACE = (NI _A – NI _S) – 10B (F _A – F _S) – I _{ME}	The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows: Reporting ACE = (NI _A – NI _S) – 10B (F _A – F _S) – I _{ME} + I _{IM} Where: <ul style="list-style-type: none"> NI_A = Actual Net Interchange. NI_S = Scheduled Net Interchange. 	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 Terms <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); Pre-Reporting Contingency Event ACE Value; Pseudo-Tie 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B(F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias</p>	<ul style="list-style-type: none"> • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.) <ul style="list-style-type: none"> ◦ In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie Line Bias (TLB)</p>	<p><i>(current and proposed)</i></p>	<p>Process</p>	

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>(TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total Interconnection generation, load, and loss; 2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to 	<p>control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses; 2. The algebraic sum of all BAAs' Scheduled Net 			

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	<p>zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>	<p>Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times. This includes effects of ACE Diversity Interchange (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity's Reporting ACE that results in a loss of MW output less than or equal to its Most	<p>Standards BAL-002-3</p> <p>Terms Contingency Event Recovery Period</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Area</p>	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Moved note on modification of

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	<p>Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of the Most Severe Single Contingency , or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.</p> <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW • Quebec – 500 MW 	<p>Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or</p> <p>(ii) the amount listed below for the applicable Interconnection.</p> <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW 		Control Error Diversity Interchange Process	80% threshold for readability.

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Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority's or reserve sharing group's most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	<p>Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i></p> <p>Terms None</p>		Retire
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority's use in recovering from contingencies within the	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority's use in recovering from contingencies within the group. Scheduling energy	<p>Standards</p> <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 <p>Terms Reserve Sharing</p>	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term "Operating Reserves" to accurately reflect current terminology. Replaced "disturbance control performance"

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas become a Reserve Sharing Group.</p>	<p>from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a Reportable Balancing Contingency Event , the areas become a Reserve Sharing Group.</p>	<p>Group Reporting ACE</p>		<p>with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.</p>
<p>Reserve Sharing Group Reporting ACE</p>	<p>At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at</p>	<p>At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated</p>	<p>Standards BAL-001-2</p> <p>Terms None</p>		<p>Edited to accurately require a Reserve Sharing Group’s Reporting ACE to use the sum of the Balancing</p>

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	such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.			Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange - (NI_s)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and	Added acronym	Standards None Terms	Technical Reference Document: Balancing and	Added acronym

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	<p>from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange.</p>		<p>Reporting ACE (<i>current and proposed</i>)</p>	<p>Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
Supplemental Regulation Service	<p>A method of providing regulation service in which the Balancing Authority</p>	<p>A method of providing Regulation Service in which the Balancing Authority</p>	Standards None		<p>Update to the NERC defined term “Reporting</p>

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	providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	Terms None		ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	A mode of Automatic Generation Control that allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection Frequency Error.	Standards BAL-004-WECC-3 Terms Reporting ACE		Added acronym and capitalized defined terms.
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. The difference	Standards None Terms <ul style="list-style-type: none">Automatic Time Error Correction	Technical Reference Document: Balancing and Frequency Control Technical Reference	Added acronym commonly used and minor grammatical change to definition.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	caused by the accumulation of Frequency Error over a given period.	is caused by the accumulation of Frequency Error over a given period.	<i>(current and proposed);</i> <ul style="list-style-type: none"> Time Error Correction <i>(current and proposed)</i> 	Document: Integrating Reporting ACE with the NERC Reliability Standards	
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s Scheduled Frequency to return the Interconnection’s Time Error to a predetermined range.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction <i>(current and proposed);</i> Scheduled Frequency <i>(proposed)</i> 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms

Draft 3

The ~~standard~~-drafting team (SDT) is seeking comment on the following new or modified terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC Glossary term being modified or proposed as a new. The SDT is proposing acronyms to some currently approved and new Glossary terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (*SDT Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange - (NI_A)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all a Adjacent Balancing Authority Areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange.	Standards BAL-003-2 BAL-004-WECC-3 None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Capitalized terms in definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
<u>ACE Diversity Interchange (ADI)</u>		<u>A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.</u>	<u>Included in Reporting ACE definition.</u>		<u>New definition</u>

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Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an entity's Actual Net Interchange (NI _A) and Scheduled Net Interchange (NI _S), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (I _{IM}) if operating in the I _{IM} mode. For compliance usage, refer to the term Reporting ACE.	<p>Standards</p> <ul style="list-style-type: none"> • BAL-002-3 (<i>purpose</i>) • BAL-003-2 • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Control Performance Standard (<i>current; see proposed revisions</i>); • Disturbance Control Standard (<i>current; proposed for retirement</i>); • Frequency Bias Setting (<i>current; see proposed revisions</i>); 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based Resource Performance Guideline</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE for compliance purposes.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Reporting ACE (current and proposed) 		
Automatic Time Error Correction – (ATEC)	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by 	<p>The addition of a component, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by 	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (current and proposed)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process.</p> <p>Published term was unreadable.</p> <p>Added an islanding term, "BA_{island}" to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$.</p> <ul style="list-style-type: none"> $L_{10} = \frac{1.65 * \epsilon_{10}}{\sqrt{(-10B_i)(-10B_s)}}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. $Y = B_i / B_s$. H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. 	<p>each BA between $0.2 * B_i$ and L_{10}; i.e. $0.2 * B_i \leq L_{max} \leq L_{10}$.</p> <ul style="list-style-type: none"> $L_{10} = \frac{1.65 * \epsilon_{10}}{\sqrt{(-10B_i)(-10B_s)}}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average Frequency Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority Area within an Interconnection. $Y = B_i / B_s$. H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. B_i = Frequency Bias Setting for the Balancing 			<p>Primary Inadvertent to use actual Bias settings to more accurately <u>more accurately</u> reflect each Balancing Authority's share of Time Error impact more accurately <u>more accurately</u>.</p> <p>Capitalized NERC defined terms.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1 - Y) * (I_{actual} - B_i * \Delta TE / 6)$ • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - (t) * (TE_{offset})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time 	<p>Authority Area (MW/0.1 Hz).</p> <ul style="list-style-type: none"> • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, <u>the annual time weighted average FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</u> • Primary Inadvertent Interchange (PII_{hourly}) is $(1 - Y) * (I_{actual} - B_i * \Delta TE / 6) * BA_{island}$ <p>BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected.</p> <ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Affected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>monitor control center clocks.</p> <ul style="list-style-type: none"> t is the number of minutes of manual Time Error Correction that occurred during the hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off-Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	<ul style="list-style-type: none"> ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - t * (TE_{offset})$ TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. t is the number of minutes spent performing manual Time Error Correction that occurred during each hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<p>accounting is required, where:</p> $PI_{accum}^{on/offpeak} = \text{last period's } PI_{accum}^{on/offpeak} + PI_{hourly}$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains load-resource balance within this area.	Added Acronym	<p>Standards</p> <ul style="list-style-type: none"> BAL-003-2 COM-001-3 EOP-004-4 EOP-011-1 MOD-004-1 PRC-005-6 TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating</p>	Added Acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reporting ACE with the NERC Reliability Standards	
Balancing Contingency Event – (BCE)	Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less. A. Sudden loss of generation: a. Due to i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility;	Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less. A. Sudden loss of generation: a. Due to i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility;	Standards BAL-002-3 Terms • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event	Reliability Guideline Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process	Added acronym and updated to correct NERC defined term.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>b. And, that causes an unexpected change to the responsible entity's ACE;</p> <p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>b. And, that causes an unexpected change to the responsible entity's Reporting ACE;</p> <p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>			
Control Performance Standard – (CPS)	The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.	Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of	<p>Standards</p> <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 (Attachment 	Reliability Guideline: Operating Reserve Management	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		sufficient secondary AGC control to maintain energy balance and Scheduled Frequency.	A) Terms None	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	Standards <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 Terms	Reliability Guideline: Operating Reserve Management Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs Methods for	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Disturbance Control Standard <i>(proposed for retirement)</i>; Disturbance Monitoring Equipment 	Establishing IROLs Reliability Guideline: Generating Unit Operations During Complete Loss of Communications Inverter-Based Resource Performance Guideline Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018 Load Composition Guideline Reliability Guideline: Model Verification of	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Aggregate DER Models used in Planning Studies Power Plant Model Verification and Testing for Synchronous Machines DER Modeling Power Plant Model Verification for Inverter-Based Resources Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	Retire	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Retire
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ control ACE equations (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities’ Reporting ACE	Standards <ul style="list-style-type: none"> BAL-002-WECC-3 INT-009-3 Terms Scheduled Net Interchange (NIS) (current and proposed)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology. Eliminated the word “equation” for consistency and eliminated the parenthetical which has no

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
					known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority's Reporting ACE to account for the Balancing Authority's Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms Reporting ACE (<i>current and proposed</i>)	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing Authority Area Footprint Change Tasks Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the actual frequency and the Scheduled Frequency. ($F_A - F_S$)	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms	Power Plant Model Verification and Testing for Synchronous Machines	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	DER_A Model Parameterization	
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. (IA – IS)	The difference between the Balancing Authority's Actual Net Interchange and Scheduled Net Interchange. (NI _A – NI _S)	<p>Standards BAL-004-WECC-3</p> <p>Terms</p> <ul style="list-style-type: none"> Automatic Time Error Correction (I_ATEC) (<i>current and proposed</i>); 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with</p>	Updated to correct NERC defined terms and correct acronyms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	<p>the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. <u>The I_{IM} value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.</u>	<p>Standards None</p> <p>Terms Reporting Ace (proposed)</p>		New term to NERC glossary
Interchange Meter Error –(I_{ME})	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in Reporting ACE to compensate for data or equipment errors affecting any other components of Reporting ACE.	<p>Standards None</p> <p>Terms Reporting ACE (current and</p>	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability	Eliminated the word “calculation” for consistency

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>proposed</i>)	Standards	
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction.	No changes	Standards MOD-028-2 Terms <ul style="list-style-type: none"> • Dynamic Interchange Schedule or Dynamic Schedule (<i>current and proposed</i>); • Net Interchange Schedule (<i>proposed for retirement</i>); • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Methods for Establishing IROLs	Team reviewed, and determined no changes determined

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Affected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>revisions</i>); <ul style="list-style-type: none"> • Reliability Adjustment RFI; • Scheduling Entity; • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias (<i>current and proposed</i>) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE.	Standards None Terms <ul style="list-style-type: none"> • Reliability Adjustment; • Arranged Interchange 		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Net Actual Interchange	The algebraic sum of all metered interchange over all interconnections between two physically Adjacent Balancing Authority Areas.	Retire	Standards BAL-003-2 None BAL-004-WECC-3 Terms Inadvertent Interchange (current; see proposed revision)	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical	Utilized proper capitalization on terms that are not NERC defined.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>within the Disturbance Recovery Period following the contingency event; or</p> <ul style="list-style-type: none"> Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>within the Disturbance recovery period following the contingency event; or</p> <ul style="list-style-type: none"> Load fully removable from the system within the Disturbance recovery period following the contingency event. 		<p>Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	
Operating Reserve – Supplemental	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	<p>The portion of Operating Reserve consisting of:</p> <ul style="list-style-type: none"> Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance recovery period following the contingency event; or Load fully removable from the system within the Disturbance recovery period following the contingency event. 	<p>Standards BAL-002-WECC-3</p> <p>Terms None</p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation	A method of providing regulation service in which the Balancing	A method of providing Regulation Service in which the	Standards	Technical Reference	Update to the NERC defined

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Service	Authority providing the regulation service incorporates another Balancing Authority's actual interchange, frequency response, and schedules into providing Balancing Authority's AGC/ACE equation.	Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority's Actual Net Interchange, Scheduled Net Interchange, and response to Interconnection Frequency Error.	<ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms None	Document: Integrating Reporting ACE with the NERC Reliability Standards	term "Reporting ACE", "Actual Net Interchange", "Scheduled Net Interchange" and "response to Interconnection Frequency Error", to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed, no changes and determined no changes	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology and grammatical changes to improve understanding.
Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in	Standards <ul style="list-style-type: none"> BAL-005-1 BAL-002-WECC-3 	Technical Reference Document: Balancing Authority Area Footprint	Eliminated the word "equation" for consistency and eliminated the parenthetical

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	the affected Balancing Authorities' Reporting ACE .	<ul style="list-style-type: none"> INT-009-3 Terms Actual Net Interchange (<i>current and proposed</i>)	Change Tasks	which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the <u>I</u> nterchange <u>S</u> chedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications Inverter-Based Resource Performance Guideline Performance, Modeling, and	Capitalized NERC defined terms within the definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Affected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Simulations of BPS-Connected BESS and Hybrid Power Plants</p> <p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p> <p>Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p> <p>DER_A Model Parameterization</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the corrective response.	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms <ul style="list-style-type: none"> • Overlap Regulation Service (<i>proposed</i>); • Supplemental Regulation Service (<i>proposed</i>) 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	
Reporting Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the	The scan rate values of a Balancing Authority Area’s Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-002-3 	Technical Reference Document: Balancing and Frequency Control	Modified to reflect a common term across all multiple BA interconnections.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction_(ATEC). Reporting ACE is calculated as follows: Reporting ACE = (NI_A – NI_S) – 10B (F_A – F_S) – I_{ME} Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = (NI_A – NI_S) – 10B (F_A – F_S) – I_{ME} + I_{ATEC} Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. 	<p>for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows: Reporting ACE = (NI_A – NI_S) – 10B (F_A – F_S) – I_{ME} + I_{IM} Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management (Term is expressed if a regional procedure exists, otherwise is null and does is not need-to-be included in the Balancing Authority’s Reporting ACE.)- 	<ul style="list-style-type: none"> • BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> • Automatic Generation Control; • Interchange Meter Error (I_{ME}) (<i>current and proposed</i>); • Pre-Reporting Contingency Event ACE Value; • Pseudo-Tie (<i>current and proposed</i>) 	<p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IATEC} = Automatic Time Error Correction. <p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is 	<ul style="list-style-type: none"> ○ In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie-Line Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Affected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>the same as total Interconnection generation, load, and loss;</p> <ol style="list-style-type: none"> The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times; The use of a common Scheduled Frequency FS for all BAAs at all times; and, Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.) 	<p>generation, Load, and losses;</p> <ol style="list-style-type: none"> The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times This includes effects of ACE Diversity Interchange (ADI) implementations; The use of a common Scheduled Frequency for all BAAs at all times; and, Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.) 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Reportable Balancing Contingency Event – (RBCE)	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of the Most Severe Single Contingency , or (ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity. <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW 	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity’s Reporting ACE that results in a loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <ul style="list-style-type: none"> (i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Reliability Organization(s)Entity, or (ii) the amount listed below for the applicable Interconnection. <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW 	<p>Standards BAL-002-3</p> <p>Terms Contingency Event Recovery Period</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	<p>Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.</p> <p>Moved note on modification of 80% threshold for readability.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> ERCOT – 800 MW Quebec – 500 MW 	<ul style="list-style-type: none"> Western Interconnection: 500 MW ERCOT: 800 MW Quebec: 500 MW 			
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i> Terms None		Retire
Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Operating Reserves required for each Balancing Authority’s use in recovering from contingencies within the group.	Standards <ul style="list-style-type: none"> PRC-005-6 BAL-001-2 BAL-002-3 BAL-002-WECC-3 	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced “disturbance

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas become a Reserve Sharing Group.	Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a <u>Reportable</u> Balancing Contingency Event, the areas become a Reserve Sharing Group.	Terms Reserve Sharing Group Reporting ACE		control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group’s Reporting ACE to use the sum of the Balancing Authorities Reporting ACE.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Scheduled Frequency	60.0 Hertz, except during a time correction	60.00 Hertz, except during a Time Error Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms <ul style="list-style-type: none"> Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction (<i>proposed</i>) 	Reliability Guideline: Operating Reserve Management Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments. Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange - (NI_s)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another	Added acronym	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with	Added acronym

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Affected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interconnection are excluded from Scheduled Net Interchange.			the NERC Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
Supplemental Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	Standards None Terms None		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that allows the Balancing Authority to :	A mode of Automatic Generation Control that allows the Balancing Authority to :	Standards BAL-004-WECC-3		Added acronym and capitalized defined terms.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ol style="list-style-type: none"> maintain its Interchange Schedule and respond to Interconnection frequency error. 	<ol style="list-style-type: none"> maintain its Interchange Schedule and respond to Interconnection Frequency Error. 	Terms Reporting ACE		
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. The difference is caused by the accumulation of Frequency Error over a given period.	Standards None Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<i>current and proposed</i>); Time Error Correction (<i>current and proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added acronym commonly used and minor grammatical change to definition.
Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A manual offset to the Interconnection’s Scheduled Frequency to return the Interconnection’s Time Error to a predetermined range.	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction 	Technical Reference Document: Balancing and Frequency Control Technical Reference	Added the word “manual” to indicate this process is not automatically implemented.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	SDT Proposed New or Revised REDLINE TO Currently Approved	Standards Effected / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>(current and proposed);</i> <ul style="list-style-type: none"> Scheduled Frequency <i>(proposed)</i> 	Document: Balancing Authority Area Footprint Change Tasks	

ACE Definition

Project 2022-01 Reporting ACE Definition and Associated Terms Draft 31

The drafting team (DT) is seeking comment on the following new ~~or~~, modified, ~~or retired~~ terms used in the proposed standards. The first column (*NERC Glossary Term*) provides the NERC *Glossary* term being modified or proposed as a new. The DT is proposing acronyms to some currently approved and new *Glossary* terms as shown in redline. The second column (*Currently Approved Definition*) provides the currently approved definition and the third column (~~DT~~ *Proposed New or Revised*) reflects the proposed modifications to the current definitions in redline and also reflects newly proposed definitions in clean view. The fourth column identifies the currently effective Reliability Standards or *Glossary* terms in which the proposed terms are used.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Actual Net Interchange (NI_A) - (NI_L)	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all a Adjacent Balancing Authority A areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another	Standards <ul style="list-style-type: none"> BAL-003-2 BAL-004-WECC-3 None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC	Capitalized terms in definition.

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Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	Interconnection are excluded from Actual Net Interchange.	Interconnection are excluded from Actual Net Interchange.		Reliability Standards Technical Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
ACE Diversity Interchange (ADI)		A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled	Included in Reporting ACE definition.		New definition

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		Net Interchange ACE components to create an ACE value closer to zero for each participant.			
Area Control Error - (ACE)	The instantaneous difference between a Balancing Authority's net actual and scheduled interchange, taking into account the effects of Frequency Bias, correction for meter error, and Automatic Time Error Correction (ATEC), if operating in the ATEC mode. ATEC is only applicable to Balancing Authorities in the Western Interconnection.	The instantaneous difference between an Balancing Authority's entity's net <u>Actual Net Interchange (NI_A)</u> and Scheduled Net Interchange (NI_S) <u>and</u> taking into account the effects of Frequency Bias, of <u>of</u> correction for meter error, and of Automatic Time Error Correction (ATEC) <u>Inadvertent Interchange Management (IIM)</u> ; if operating in the IIM <u>ATEC</u> -mode. For compliance usage, refer to the term Reporting ACE. ATEC is only applicable to	<p>Standards</p> <ul style="list-style-type: none"> BAL-002-3 (<i>purpose</i>) BAL-003-2 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Control Performance Standard (<i>current; see proposed revisions</i>); Disturbance Control Standard (<i>current; proposed for</i> 	<p>Reliability Guideline Operating Reserve Management</p> <p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p> <p>Inverter-Based</p>	The old definition was restricted to only Balancing Authorities and excluded entities such as Balancing Authority Areas and Reserve Sharing Groups. Also updated terms to reflect current NERC defined terms and newly proposed terms added to the Reporting ACE term. Also added a clarifying statement to refer to Reporting ACE

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		Balancing Authorities in the Western Interconnection.	<i>retirement</i>); <ul style="list-style-type: none"> • Frequency Bias Setting (<i>current</i>; see <i>proposed revisions</i>); • Reporting ACE (<i>current and proposed</i>) 	Resource Performance Guideline	for compliance purposes.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Automatic Time Error Correction — (ATEC)	<p>The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p> <p>The absolute value of I_{ATEC} shall not exceed L_{max}.</p>	<p>The addition of a component to, represented by the term I_{ATEC}, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct accumulated Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection.</p> $I_{ATEC} = \frac{PII_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>when operating in Automatic Time Error Correction Mode.</p>	<p>Standards BAL-004-WECC-3</p> <p>Terms Reporting ACE (<i>current and proposed</i>)</p>	<p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Reliability Guideline: Inadvertent Interchange</p>	<p>Re-organized published glossary terms to reflect changes made during the standard drafting process. Published term was unreadable. Added an islanding term, "BA_{Island}" to accurately reflect a BA that has lost synchronism with the remainder of the interconnection cannot have an impact on Time Error. Changed the method of allocating Primary Inadvertent to use actual Bias settings to- reflect</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}, $0.2 * B_i \leq L_{max} \leq L_{10}$ $L_{10} = \frac{1.65 * \epsilon_{10}}{\sqrt{(-10B_i)(-10B_s)}}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ϵ_{10}, is the same for every Balancing Authority 	<p>The absolute value of I_{ATEC} shall not exceed L_{Max}.</p> <p>I_{ATEC} shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> L_{max} is the maximum value allowed for I_{ATEC} set by each BA between $0.2 * B_i$ and L_{10}; <u>i.e.</u> $0.2 * B_i \leq L_{max} \leq L_{10}$. $L_{10} = \frac{1.65 * \epsilon_{10}}{\sqrt{(-10B_i)(-10B_s)}}$ ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average <u>F</u>frequency <u>e</u>Error based on frequency performance over a given year. The bound, ϵ_{10}, is the same 			<p>each Balancing Authority's share of Time Error impact more accurately.</p> <p>Capitalized NERC defined terms.</p>

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i / B_s$. • H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW / 0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE/6)$ 	<p>for every Balancing Authority Area within an Interconnection.</p> <ul style="list-style-type: none"> • $Y = B_i/B_s$. • -H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3. • -B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the minimum Frequency Bias Settings for the Interconnection (MW/0.1 Hz). <u>For entities with a variable Frequency Bias, the annual time weighted average FBS based on the one minute values</u> 			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<ul style="list-style-type: none"> • I_{actual} is the hourly Inadvertent Interchange for the last hour. • ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: $\Delta TE = TE_{\text{end hour}} - TE_{\text{begin hour}} - TD_{\text{adj}} - (t) * (TE_{\text{offset}})$ • TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. • t is the number of minutes of manual Time Error Correction that occurred during the hour. 	<p><u>used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz.</u></p> <ul style="list-style-type: none"> • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{\text{actual}} - B_i * \Delta TE / 6) * BA_{\text{island}}$ • BA_{island} = Binary term: <u>1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected.</u> • $-I_{\text{actual}}$ is the hourly Inadvertent Interchange for the last hour. • $-\Delta TE$ is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: 			

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	<ul style="list-style-type: none"> TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off-Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$	$\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - (t) * (TE_{offset})$ <ul style="list-style-type: none"> TD_{adj} is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks. t is the number of minutes <u>spent performing of</u> manual Time Error Correction that occurred during <u>each</u> hour. TE_{offset} is 0.000 or +0.020 or -0.020. PII_{accum} is the Balancing Authority Area's accumulated PII_{hourly} in MWh. An On-Peak and Off Peak accumulation accounting is required, where: 			

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		$PI_{accum}^{on/offpeak} = \text{last period's } PI_{accum}^{on/offpeak} + PI_{hourly}$			
Balancing Authority Area (BAA)	The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The	Added Acronym	Standards <ul style="list-style-type: none"> BAL-003-2 COM-001-3 	Reliability Guideline: Operating Reserve Management	Added Acronym

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	Balancing Authority maintains load-resource balance within this area.		<ul style="list-style-type: none"> • EOP-004-4 • EOP-011-1 • MOD-004-1 • PRC-005-6 • TOP-001-5 <p>Terms <i>Multiple terms</i></p>	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Balancing Authority Area Footprint Change Tasks</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p>	
Balancing Contingency	Any single event described in Subsections (A), (B), or	Any single event described in Subsections (A), (B), or	Standards BAL-002-3	Reliability Guideline	Added acronym and updated to

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Event – (BCE)	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ol style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to</p>	<p>(C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</p> <p>A. Sudden loss of generation due to:</p> <ol style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity’s System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity’s Reporting ACE.</p>	<p>Terms</p> <ul style="list-style-type: none"> • Contingency Reserve; • Most Severe Single Contingency; • Reportable Balancing Contingency Event 	<p>Operating Reserve Management</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference Document: Area Control Error Diversity Interchange Process</p>	correct NERC defined term.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>the responsible entity's ACE.</p> <p>B. Sudden loss of an Import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's ACE.</p>	<p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's <u>Reporting</u> ACE.</p>			
Control Performance Standard – (CPS)	The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period.	<u>Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient</u>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 (Attachment A) 	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

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		secondary AGC control to maintain energy balance and Scheduled Frequency.	Terms None	Reference Document: Balancing and Frequency Control Technical Reference Document: Area Control Error Diversity Interchange Process	
Disturbance	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load. 	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load 	Standards <ul style="list-style-type: none"> • BAL-002-3 • EOP-004-4 • EOP-005-3 • MOD-026-1 • MOD-027-1 • MOD-033-2 • PRC-026-1 Terms	Reliability Guideline: Operating Reserve Management Recommended Approaches for UFLS Program Design with Increasing Penetrations of DERs	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> Disturbance Control Standard (<i>proposed for retirement</i>); Disturbance Monitoring Equipment 	<p>Methods for Establishing IROs</p> <p>Reliability Guideline: Generating Unit Operations During Complete Loss of Communications</p> <p>Inverter-Based Resource Performance Guideline</p> <p>Reliability Guideline: Bulk Power System Reliability Perspectives on the Adoption of IEEE 1547-2018</p> <p>Load Composition Guideline</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>Power Plant Model Verification and Testing for Synchronous Machines</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p> <p>Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Disturbance Control Standard – (DCS)	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range.	RETIRE	Standards BAL-002-3 Terms None	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	RETIRE
Dynamic Interchange Schedule or Dynamic Schedule	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in	A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an	Standards • BAL-002-WECC-3 • INT-009-3	Technical Reference Document: Integrating Reporting ACE with the NERC	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	the affected Balancing Authorities' control ACE equations (or alternate control processes).	Interchange Schedule in the affected Balancing Authorities' Reporting control ACE equations (or alternate control processes).	Terms Scheduled Net Interchange (NI _s) (<i>current and proposed</i>)	Reliability Standards	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Frequency Bias Setting (FBS)	A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems.	A <u>negative</u> number either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error Reporting ACE equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection Frequency Error , and discourage response withdrawal through secondary control systems.	Standards <ul style="list-style-type: none"> BAL-001-2 BAL-003-2 Terms Reporting ACE (<i>current and proposed</i>)	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing Authority Area Footprint Change Tasks Technical Reference Document: Integrating	Added language to indicate this value must be a negative number and eliminated language to was not accepted in practice (usually). Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reporting ACE with the NERC Reliability Standards	
Frequency Error	The difference between the actual and scheduled frequency. ($F_A - F_S$)	The difference between the A actual F frequency and the S scheduled # frequency. ($F_A - F_S$)	Standards: <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Term: <ul style="list-style-type: none"> Control Performance Standard Reporting ACE Frequency Regulation; Reporting ACE (<i>current and proposed</i>); Time Error Correction 	Power Plant Model Verification and Testing for Synchronous Machines DER_A Model Parameterization	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<i>(proposed)</i>		
Inadvertent Interchange	The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. (IA – IS)	The difference between the Balancing Authority's Net Actual <u>Net</u> Interchange and Net Scheduled <u>Net</u> Interchange. (<u>NI_A</u> – <u>NI_S</u>)	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<u>I_ATEC</u>) (<i>current and proposed</i>); Dynamic Transfer; Primary Inadvertent Interchange (WECC) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Reliability Guideline: Inadvertent Interchange	Updated to correct NERC defined terms and correct acronyms.
Inadvertent Interchange Management – (I_{IM})	New term to NERC glossary	<u>A term used in Reporting ACE to allow for management of Inadvertent Interchange</u>	Standards None Terms		New term to NERC glossary

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<u>and correction of Time Error. The I_M value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.</u>	Reporting Ace (<i>proposed</i>)		
Interchange Meter Error - (IME)	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation.	A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation .	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Eliminated the word "calculation" for consistency
Interchange Schedule	An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of	No changes	Standards MOD-028-2 Terms <ul style="list-style-type: none"> Dynamic Interchange 	Technical Reference Document: Balancing and Frequency Control Methods for	Team reviewed and determined no changes

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	power and energy between the Source and Sink Balancing Authorities involved in the transaction.		Schedule or Dynamic Schedule (<i>current and proposed</i>); <ul style="list-style-type: none"> • Net Interchange Schedule (<i>proposed for retirement</i>); • Net Scheduled Interchange (<i>proposed for retirement</i>); • Ramp Rate or Ramp (<i>see proposed revisions</i>); • Reliability Adjustment RFI; • Scheduling Entity; 	Establishing IROs	

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			<ul style="list-style-type: none"> • Sink Balancing Authority; • Source Balancing Authority; • Tie Line Bias (<i>current and proposed</i>) 		
Implemented Interchange	The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation.	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE Area Control Error equation.	Standards None Terms <ul style="list-style-type: none"> • Reliability Adjustment; • Arranged Interchange 		Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology.
Net Interchange Schedule	The algebraic sum of all Interchange Schedules with each Adjacent Balancing Authority.	Retire	Standards None Terms None	Reliability Guideline: Inadvertent Interchange	Retire. Term is no longer utilized.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
Net Scheduled Interchange	The algebraic sum of all Interchange Schedules across a given path or between Balancing Authorities for a given period or instant in time.	Retire	Standards None Terms None		Retire. Term is no longer utilized.
Operating Reserve – Spinning	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Reliability Guideline: Operating Reserve Management Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.

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Operating Reserve – Supplemental	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or • Load fully removable from the system within the Disturbance Recovery Period following the contingency event. 	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Rrecovery pPeriod following the contingency event; or • Load fully removable from the system within the Disturbance Rrecovery pPeriod following the contingency event. 	Standards BAL-002-WECC-3 Terms None	Technical Reference Document: Balancing and Frequency Control Power Plant Model Verification for Inverter-Based Resources	Utilized proper capitalization on terms that are not NERC defined.
Overlap Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing	A method of providing R egulation S ervice in which the Balancing Authority providing the R egulation S ervice incorporates into it s its	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms	Technical Reference Document: Integrating Reporting ACE with the NERC	Update to the NERC defined term “Reporting ACE”, “Actual Net Interchange”, “Scheduled Net

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	Authority’s actual interchange, frequency response, and schedules into providing Balancing Authority’s AGC/ACE equation.	Reporting ACE a receiving another Balancing Authority’s Actual Net Interchange, frequency response and Scheduled Net Interchange, and response to Interconnection Frequency Error, into providing Balancing Authority’s AGC /ACE equation.	None	Reliability Standards	Interchange” and “response to Interconnection Frequency Error”, to accurately reflect current terminology.
Pre-Reporting Contingency Event ACE Value	The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data.	Team reviewed; no changes determined	Standards BAL-002-3 Terms None	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Reporting ACE” to accurately reflect current terminology and grammatical changes to improve understanding.

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Pseudo-Tie	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes).	Standards <ul style="list-style-type: none"> BAL-005-1 BAL-002-WECC-3 INT-009-3 Terms Actual Net Interchange (<i>current and proposed</i>)	Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Eliminated the word "equation" for consistency and eliminated the parenthetical which has no known application.
Ramp Rate or Ramp	(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	(Schedule) The rate, expressed in megawatts per minute, at which the i interchange s Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.	Standards None Terms Response Rate	Technical Reference Document: Balancing and Frequency Control Reliability Guideline: Generating Unit Operations During Complete Loss of Communications	Capitalized NERC defined terms within the definition.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				<p>Inverter-Based Resource Performance Guideline</p> <p>Performance, Modeling, and Simulations of BPS-Connected BESS and Hybrid Power Plants</p> <p>Reliability Guideline: Model Verification of Aggregate DER Models used in Planning Studies</p> <p>DER Modeling</p> <p>Power Plant Model Verification for Inverter-Based Resources</p>	

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
				Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies DER_A Model Parameterization Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources	
Regulation Service	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting ACE of another Balancing Authority. The Balancing Authority providing the response assumes the	Standards <ul style="list-style-type: none"> • BAL-001-2 • BAL-003-2 Terms <ul style="list-style-type: none"> • Overlap Regulation Service 	Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service.	obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation <u>corrective response Service</u> .	<p>(<i>proposed</i>);</p> <ul style="list-style-type: none"> Supplemental Regulation Service (<i>proposed</i>) 		
Reporting ACE Area Control Error – (Reporting ACE)	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction _(ATEC) .	The scan rate values of a Balancing Authority Area’s (BAA) Area Control Error (ACE) measured in MW, <u>which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. includes the difference between the Balancing Authority Area’s Actual Net Interchange and its Scheduled Net Interchange, plus its Frequency Bias Setting obligation, plus correction</u>	<p>Standards</p> <ul style="list-style-type: none"> BAL-001-2 BAL-002-3 BAL-005-1 <p>Terms</p> <ul style="list-style-type: none"> Automatic Generation Control; Interchange Meter Error (IME) (<i>current and proposed</i>); Pre-Reporting 	<p>Technical Reference Document: Balancing and Frequency Control</p> <p>Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards</p> <p>Technical Reference</p>	Modified to reflect a common term across all multiple BA interconnections. This change will allow regions to create methodologies to control Inadvertent Interchange accumulations.

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>Reporting ACE is calculated as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{ATEC} = Automatic Time Error Correction. 	<p>for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction (I_{ATEC}). Reporting ACE is calculated as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: $Reporting\ ACE = (NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. 	<p>Contingency Event ACE Value;</p> <ul style="list-style-type: none"> • Pseudo-Tie (current and proposed) 	<p>Document: Area Control Error Diversity Interchange Process</p>	

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	<p>All NERC Interconnections operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <p>1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total</p>	<ul style="list-style-type: none"> • F_s = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{MATEC} = Automatic Time Error Correction Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.) <ul style="list-style-type: none"> ◦ In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie-Line Bias (TLB) Ccontrol and require the use of an ACE equation</p>			

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	<p>Interconnection generation, load, and loss;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</p>	<p>similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs in an an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</p> <p>1. All <u>Each individual</u> portions of the Interconnection are <u>is</u> included in exactly one BAA so that the sum of all BAAs' generation, l <u>o</u>ad, and losses <u>is</u> the same as total Interconnection generation, l <u>o</u>ad, and losses <u>es</u>;</p> <p>2. The algebraic sum of all BAAs' Scheduled Net</p>			

Table 1: Retired, Modified, or Newly Proposed Definitions

NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
		<p>Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times. This includes effects of ACE Diversity Interchange (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency FS for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the IME/ME term corrects for known metering or computational errors.)</p>			
Reportable Balancing Contingency Event – (RBCE)	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less	Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in <u>the responsible entity's Reporting ACE</u> that results in a loss of MW output less	<p>Standards BAL-002-3</p> <p>Terms Contingency Event Recovery Period</p>	<p>Reliability Guideline: Operating Reserve Management</p> <p>Technical Reference</p>	Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology. Moved note on

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	<p>than or equal to the Most Severe Single Contingency , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of the Most Severe Single Contingency , or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.</p> <ul style="list-style-type: none"> • Eastern Interconnection – 900 MW • Western Interconnection – 500 MW • ERCOT – 800 MW 	<p>than or equal to its Most Severe Single Contingency (MSSC), and greater than or equal to the lesser amount of:</p> <p>(i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or</p> <p>(ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity.</p>		<p>Document: Area Control Error Diversity Interchange Process</p>	<p>modification of 80% threshold for readability.</p>

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	<ul style="list-style-type: none"> Quebec – 500 MW 	<ul style="list-style-type: none"> Eastern Interconnection: 900 MW Western Interconnection: 500 MW ERCOT: 800 MW Quebec: 500 MW 			
Reportable Disturbance	Any event that causes ACE change greater than or equal to 80% of a Balancing Authority’s or reserve sharing group’s most severe contingency. The definition of a reportable disturbance is specified by each Regional Reliability Organization. This definition may not be retroactively adjusted in response to observed performance.	Retire	Standards CIP-002-5.1 <i>(outdated reference in G&TB)</i> Terms None		Retire

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Reserve Sharing Group – (RSG)	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply Q operating R eserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly er (e.g., between zero and ten minutes) then, for the purposes of recovery from <u>a Reportable Balancing</u>	<p>Standards</p> <ul style="list-style-type: none"> • PRC-005-6 • BAL-001-2 • BAL-002-3 • BAL-002-WECC-3 <p>Terms</p> <p>Reserve Sharing Group Reporting ACE</p>	Reliability Guideline: Operating Reserve Management	Update to the NERC defined term “Operating Reserves” to accurately reflect current terminology. Replaced “disturbance control performance” with “Balancing Contingency Event” to accurately reflect changes to BAL-002-3 terminology.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
	purposes of disturbance control performance, the areas become a Reserve Sharing Group.	Contingency Event disturbance control performance , the areas become a Reserve Sharing Group.			
Reserve Sharing Group Reporting ACE	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.	Standards BAL-001-2 Terms None		Edited to accurately require a Reserve Sharing Group's Reporting ACE to use the sum of the Balancing Authorities Reporting ACE.
Scheduled Frequency	60.0 Hertz, except during a time correction	60.0 0 Hertz, except during a Time Error e Correction	Standards <ul style="list-style-type: none"> BAL-001-2 MOD-027-1 Terms	Reliability Guideline: Operating Reserve Management Technical Reference	Added resolution to the term as Time Error corrections are normally performed in +/- .02 Hz increments.

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NERC Glossary Term	Currently Approved Definition	DT Proposed New or Revised REDLINE TO Currently Approved	Standards / Definitions Affected	Technical Guidelines / Reference Documents	Notes
			<ul style="list-style-type: none"> • Frequency Regulation; • Reporting ACE (<i>current and proposed</i>); • Time Error Correction (<i>proposed</i>) 	Document: Integrating Reporting ACE with the NERC Reliability Standards	Also capitalized terms that are NERC defined glossary terms.
Scheduled Net Interchange (NI_s) (NI _s)	The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are	Added acronym	Standards None Terms Reporting ACE (<i>current and proposed</i>)	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards Technical	Added acronym

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	excluded from Scheduled Net Interchange.			Reference Document: Area Control Error Diversity Interchange Process Reliability Guideline: Inadvertent Interchange	
Supplemental Regulation Service	A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE.	A method of providing R egulation S ervice in which the Balancing Authority providing the R egulation S ervice receives a signal representing all or a portion of the other Balancing Authority's Reporting ACE.	Standards None Terms None		Update to the NERC defined term "Reporting ACE" to accurately reflect current terminology.
Tie Line Bias (TLB)	A mode of Automatic Generation Control that	A mode of Automatic Generation Control that	Standards BAL-004-WECC-3		Added acronym and capitalized defined terms.

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	allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency error.	allows the Balancing Authority to : 1) maintain its Interchange Schedule and 2) respond to Interconnection frequency e error.	Terms Reporting ACE		
Time Error (TE)	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given period.	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error <u>The difference</u> is caused by the accumulation of Frequency Error over a given period.	Standards None Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<i>current and proposed</i>); Time Error Correction (<i>current and proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Integrating Reporting ACE with the NERC Reliability Standards	Added acronym commonly used and minor grammatical change to definition.

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Time Error Correction (TEC)	An offset to the Interconnection’s scheduled frequency to return the Interconnection’s Time Error to a predetermined value.	A an <u>manual</u> offset to the Interconnection’s S cheduled F requency to return the Interconnection’s Time Error to a predetermined <u>range value</u> .	Standards BAL-004-WECC-3 Terms <ul style="list-style-type: none"> Automatic Time Error Correction (<i>current and proposed</i>); Scheduled Frequency (<i>proposed</i>) 	Technical Reference Document: Balancing and Frequency Control Technical Reference Document: Balancing Authority Area Footprint Change Tasks	Added the word “manual” to indicate this process is not automatically implemented.

Exhibit E

Standard Drafting Team Roster,
Project 2022-01 Reporting ACE Definition and Associated Terms

Drafting Team Roster

Project 2022-01 Reporting ACE Definition and Associated Terms

	Name	Entity
Chair	Greg Park	Western Power Pool
Vice Chair	Daniel Baker	Southwest Power Pool
Members	Robert Blohm	Keen Resources
	David Kimmel	PJM
	David Kirsch	Bonneville Power Administration
	Nitika Mago	ERCOT
	Jim Piper	NYISO
NERC Staff	Josh Blume – Standards Developer	North American Electric Reliability Corporation