

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Standard Processes Manual

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to ensure
the reliability of the
bulk power system

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Table of Contents

Introduction.....	3
Elements of a Reliability Standard	5
Standards Program Organization	8
Process for Developing, Modifying, or Retiring a Standard	11
Process for Developing a Defined Term.....	21
Processes for Conducting Field Tests and Collecting and Analyzing Data.....	24
Process for Developing an Interpretation	26
Process for Appealing an Action or Inaction.....	29
Process for Developing a Variance.....	31
Expedited Standards Development Process.....	32
Processes for Developing a Standard Related to a Confidential Issue	33
Process for Approving Supporting Documents	38
Process for Correcting Errata.....	39
Process for Conducting Five-Year Review.....	40
Process for Updating Standards Processes	42

Introduction

Authority

This manual is published by the authority of the NERC Board of Trustees. The Board of Trustees, as necessary to maintain NERC's certification as the electric reliability organization (ERO), may file the manual with applicable governmental authorities for approval as an ERO document. When approved, the manual is appended to and provides implementation detail in support of the ERO Rules of Procedure Section 300 — Reliability Standards Development.

Scope

The policies and procedures in this manual shall govern the activities of the North American Electric Reliability Corporation (NERC) related to the development, approval, revision, reaffirmation, and withdrawal of standards, interpretations, definitions, variances, violation risk factors, violation severity levels, and reference documents developed to support standards for the reliable planning and operation of the North American bulk power systems.

Background

NERC is a nonprofit corporation formed for the purpose of becoming the North American ERO. NERC works with all stakeholder segments of the electric industry, including electricity users, to develop standards for the reliability planning and reliable operation of the bulk power systems. In the United States, the Energy Policy Act of 2005 added Section 215 to the Federal Power Act for the purpose of establishing a framework to make standards mandatory for all bulk power system owners, operators, and users. Similar authorities are provided by applicable governmental authorities in Canada. NERC was certified as the ERO effective July 2006.

Essential Attributes of NERC's Standards Processes

NERC's standards development processes provide reasonable notice and opportunity for public comment, due process, openness, and balance of interests in developing a proposed Reliability Standard consistent with the attributes necessary for ANSI accreditation.

Open Participation

Participation in NERC's standards development balloting and approval processes shall be open to all entities materially affected by NERC's reliability standards. There shall be no financial barriers to participation in NERC's standards balloting and approval processes. Membership in the registered ballot body shall not be conditional upon membership in any organization, nor unreasonably restricted on the basis of technical qualifications or other such requirements.

Balance

NERC's standards development processes cannot be dominated by any two interest categories, individuals, or organizations and no single interest category, individual, or organization is able to defeat a matter.

NERC shall use a voting formula that allocates each industry segment an equal weight in determining the final outcome of any standard action. The standards development processes shall have a balance of interests. Participants from diverse interest categories shall be encouraged to join the Registered Ballot Body and participate in the balloting process, with a goal of achieving balance between the interest categories. The Registered Ballot Body serves as the consensus body voting to approve each new or proposed standard, definition, variance, and interpretation.

Coordination and harmonization with other American National Standards activities

NERC is committed to resolving any potential conflicts between its standards development efforts and existing American National Standards and candidate American National Standards.

Notification of standards development

NERC shall publicly distribute a notice to each member of the Registered Ballot Body, and to each stakeholder who indicates a desire to receive such notices, for each action to create, revise, reaffirm, or withdraw a standard, definition, or variance; and for each proposed interpretation. Notices shall be distributed electronically, with links to the relevant information, and notices shall be posted on NERC's standards web page. All notices shall identify a readily available source for further information.

Consideration of views and objections

Drafting teams shall give prompt consideration to the written views and objections of all participants, providing individualized written responses to those commenting during formal comment periods and those commenting as part of the balloting process. Drafting teams shall make an effort to resolve each objection that is related to the topic under review.

Consensus vote

NERC shall use its voting process to determine if there is sufficient consensus to approve a proposed reliability standard, definition, variance, or interpretation. NERC shall form a ballot pool for each standard action from interested members of its registered ballot body. Approval of any standard action requires:

- A quorum, which is established by at least 75% of the members of the ballot pool submitting a response with an affirmative vote, a negative vote, or an abstention; and
- A two-thirds majority of the weighted segment votes cast shall be affirmative. The number of votes cast is the sum of affirmative and negative votes, excluding abstentions and non-responses.

Elements of a Reliability Standard

Definition of a Reliability Standard

A reliability standard includes a set of requirements that define specific obligations of owners, operators, and users of the North American bulk power systems. The requirements shall be material to reliability and measurable. A reliability standard is defined as follows:

“Reliability standard” means a requirement to provide for reliable operation of the bulk power system, including without limiting the foregoing, requirements for the operation of existing bulk power system facilities, including cyber security protection, and including the design of planned additions or modifications to such facilities to the extent necessary for reliable operation of the bulk power system; but shall not include any requirement to enlarge bulk power system facilities or to construct new transmission capacity or generation capacity¹.

Adequate Level of Reliability

The intent of the set of NERC reliability standards is to deliver an Adequate Level of Reliability defined by the following bulk power system characteristics:

- The system is controlled to stay within acceptable limits during normal conditions.
- The system performs acceptably after credible contingencies.
- The system limits the impact and scope of instability and cascading outages when they occur.
- The system’s facilities are protected from unacceptable damage by operating them within facility ratings.
- The system’s integrity can be restored promptly if it is lost.
- The system has the ability to supply the aggregate electric power and energy requirements of the electricity consumers at all times, taking into account scheduled and reasonably expected unscheduled outages of system components.

Market Principles

In addition to providing for an adequate level of reliability, reliability standards shall be written such that they achieve their reliability objective without causing undue restrictions or adverse impacts on competitive electricity markets by adhering to the following:

- A reliability standard shall not give any market participant an unfair competitive advantage.
- A reliability standard shall neither mandate nor prohibit any specific market structure.
- A reliability standard shall not preclude market solutions to achieving compliance with that standard.
- 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.

Types of Reliability Requirements

¹ § 39.1 Code of Federal Regulations.

Generally, each requirement of a reliability standard shall identify, “What functional entity shall do what under what conditions to achieve what reliability objective.” Although reliability standards all follow this format several types of requirements may exist, each with a different approach to measurement.

- **Performance-based requirements** define a specific reliability objective or outcome that has a direct, observable effect on the reliability of the bulk power system, i.e. an effect that can be measured using power system data or trends.
- **Risk-based requirements** define actions of entities that reduce a stated risk to the reliability of the bulk power system and can be measured by evaluating a particular product or outcome resulting from the required actions.
- **Capability-based requirements** define capabilities needed to perform reliability functions and can be measured by demonstrating that the capability exists as required.

Elements of a Reliability Standard

A reliability standard includes several components designed to work collectively to identify what entities must do to meet their reliability-related obligations as an owner, operator or user of the bulk power system. The components of a reliability standard include mandatory and enforceable sections and informational sections of the standard.

Mandatory and Enforceable Sections of a Standard:

Title: A brief, descriptive phrase identifying the topic of the standard.

Number: A unique identification number assigned in accordance with a published classification system to facilitate tracking and reference to the standards.

Purpose: The reliability outcome achieved through compliance with the requirements of the standard.

Effective Dates: Identification of when each requirement becomes effective in each jurisdiction.

Requirement: An explicit statement that identifies the functional entity responsible, the action or outcome that must be achieved, any conditions achieving the action or outcome, and the reliability-related benefit of the action or outcome. Each requirement shall be a statement for which compliance is mandatory. (Any additional comments or statements for which compliance is not mandatory, such as background or explanatory information should be placed in a separate document and referenced.)

Measure: Each requirement shall have at least one measure. Identification of the evidence or types of evidence needed to demonstrate compliance with the associated requirement. Each measure shall clearly refer to the requirement(s) to which it applies.

Evidence Retention: Identification, for each requirement in the standard, of the entity that is responsible for retaining evidence to demonstrate compliance, and the duration for retention of that evidence.

Variance: A requirement (to be applied in the place of the continent-wide requirement), and its associated measure and compliance information, that is applicable to a specific geographic area or to a specific set of functional entities.

Informational Sections of a Standard

Application Guidelines: Guidelines to support the implementation of the associated standard.

Procedures: Procedures to support implementation of the associated standard.

Time Horizon: The time period an entity has to mitigate an instance of violating the associated requirement.²

Compliance Enforcement Authority: The entity that is responsible for assessing performance or outcomes to determine if an entity is compliant with the associated standard.

Compliance Monitoring and Assessment Processes: Identification of the processes that will be used to evaluate data or information for the purpose of assessing performance or outcomes with the associated standard.

Additional Compliance Information: Any other information related to assessing compliance such as the criteria or periodicity for filing specific reports.

Violation Risk Factors and Violation Severity Levels

Violation Risk Factors (VRFs) and Violation Severity Levels (VSLs) are used as factors when determining the size of a penalty or sanction associated with the violation of a requirement in an approved reliability standard³. Each requirement in each reliability standard has an associated VRF and a set of VSLs. VRFs and VSLs are developed by the drafting team, working with NERC staff, at the same time as the associated reliability standard, but are not part of the reliability standard. The Board of Trustees is responsible for approving VRFs and VSLs.

Violation Risk Factors

VRFs identify the potential reliability significance of noncompliance with each requirement. Each requirement is assigned a VRF in accordance with the latest approved set of VRF criteria⁴.

Violation Severity Levels

VSLs define the degree to which compliance with a requirement was not achieved. Each requirement shall have at least one VSL. While it is preferable to have four VSLs for each requirement, some requirements do not have multiple “degrees” of noncompliant performance and may have only one, two, or three VSLs. Each requirement is assigned one or more VSLs in accordance with the latest approved set of VSL criteria⁵.

² The latest set of approved Time Horizon classifications is posted on the Reliability Standards Resources Web Page.

³ The *Sanction Guidelines of the North American Electric Reliability Corporation* identifies the factors used to determine a penalty or sanction for violation of reliability standard and is posted on the NERC Web Site.

⁴ The latest set of approved VRF Criteria is posted on the Reliability Standards Resources Web Page.

⁵ The latest set of approved VSL Criteria is posted on the Reliability Standards Resources Web Page.

Standards Program Organization

Board of Trustees

The NERC Board of Trustees shall consider for adoption reliability standards, definitions, variances and interpretations and associated implementation plans that have been processed according to the processes identified in this manual. In addition, the board shall consider for approval, VRFs and VSLs associated with each approved standard. Once the board adopts a reliability standard, definition, variance or interpretation, or once the board approves VRFs or VSLs, the board shall direct NERC staff to file the document(s) for approval with applicable governmental authorities.

Registered Ballot Body

The Registered Ballot Body comprises all entities or individuals that qualify for one of the stakeholder segments approved by the Board of Trustees⁶, and are registered with NERC as potential ballot participants in the voting on standards. Each member of the Registered Ballot Body is eligible to join the ballot pool for each standard action.

Ballot Pool

Each standard action has its own ballot pool formed of interested members of the Registered Ballot Body. The ballot pool comprises those members of the Registered Ballot Body that respond to a pre-ballot request to participate in that particular standard action. The ballot pool votes on each standards action. The ballot pool remains in place until all balloting related to that standard action has been completed.

Standards Committee

The Standards Committee serves at the pleasure and direction of the NERC Board of Trustees, and the board approves the Standards Committee's Charter.⁷ Standards Committee members are elected by their respective segment's stakeholders. The Standards Committee consists of two members of each of the stakeholder segments in the Registered Ballot Body⁸. A member of the standards staff shall serve as the nonvoting secretary to the Standards Committee.

The Standards Committee is responsible for managing the standards processes for development of standards, VRFs, VSLs, definitions, variances and interpretations in accordance with this manual. The responsibilities of the Standards Committee are defined in detail in the Standards Committee's Charter. The Standards Committee is responsible for ensuring that the standards, VRFs, VSLs, definitions, variances and interpretations developed by drafting teams are developed in accordance with the processes in this manual and meet NERC's benchmarks for reliability standards as well as criteria for governmental approval⁹.

The Standards Committee has the right to remand work to a drafting team, to reject the work of a drafting team, or to accept the work of a drafting team. The Standards Committee may direct a drafting team to revise its work to follow the processes in this manual or to meet the criteria for NERC's benchmarks for

⁶ The Industry Segment Qualifications are posted on the Reliability Standards Resources Web Page.

⁷ The Standards Committee Charter is posted on the Reliability Standards Resources Web Page.

⁸ In addition to balanced stakeholder segment representation, the Standards Committee shall also have representation that is balanced among countries based on net energy for load (NEL). As needed, the Board of Trustees may approve special procedures for the balancing of representation among countries represented within NERC.

⁹ The Ten Benchmarks of an Excellent Reliability Standard and FERC's Criteria for Approving Reliability Standards are posted on the Reliability Standards Resources Web Page.

reliability standards, or to meet the criteria for governmental approval however the Standards Committee shall not direct a drafting team to change the technical content of a draft standard.

The Standards Committee shall meet at regularly scheduled intervals (either in person, or by other means). All Standards Committee meetings are open to all interested parties.

Standards Staff

The standards staff, led by the Director of Standards, is responsible for administering NERC's reliability standards processes in accordance with this manual. The standards staff provides support to the Standards Committee in managing the standards processes and in supporting the work of all drafting teams. The standards staff works to ensure the integrity of the standards processes and consistency of quality and completeness of the reliability standards. The standards staff facilitates all steps in the development of standards, definitions, variances, interpretations and associated implementation plans. The standards staff works with drafting teams in developing VRFs and VSLs for each standard.

The standards staff is responsible for presenting standards, definitions, variances, and interpretations to the NERC Board of Trustees for adoption. When presenting standards-related documents to the NERC Board of Trustees for adoption or approval, the standards staff shall report the results of the associated stakeholder ballot, including identification of unresolved stakeholder objections and an assessment of the document's practicality and enforceability.

Drafting Teams

The Standards Committee shall appoint members to drafting teams to work with stakeholders in developing and refining Standard Authorization Requests (SARs), standards, VRFs, VSLs, definitions, and variances. The standards staff shall appoint drafting teams that develop interpretations.

Each drafting team consists of a group of technical experts that work cooperatively with the support of the standards staff¹⁰. The technical experts provide the subject matter expertise and guide the development of the technical aspects of the standard, assisted by technical writers. Each drafting team appointed to develop a standard is responsible following the processes identified in this manual as well as procedures developed by the Standards Committee from the inception of the assigned project through the final acceptance of that project by applicable governmental authorities.

Collectively, each drafting team:

- Drafts proposed language for the reliability standards, definitions, variances, and/or interpretations and associated implementation plans.
- Solicits, considers, and responds to comments related to the specific standards development project.
- Participates in industry forums to help build consensus on the draft reliability standards, definitions, variances, and/or interpretations and associated implementation plans.
- Assists in developing the documentation used to obtain governmental approval of the reliability standards, definitions, variances, and/or interpretations and associated implementation plans.

All drafting teams report to the Standards Committee.

Governmental Authorities

¹⁰ The detailed responsibilities of drafting teams are outlined in the Drafting Team Guidelines, which is posted on the Reliability Standards Resources Web Page.

The Federal Energy Regulatory Commission (FERC) in the United States of America, and where permissible by statute or regulation, the provincial government of each of the eight Canadian Provinces (Manitoba, Nova Scotia, Saskatchewan, Alberta, Ontario, British Columbia, New Brunswick and Quebec) and the Canadian National Energy Board have the authority to approve each new, revised or withdrawn reliability standard, definition, variance, interpretation, VRF, and VSL following adoption or approval by the NERC Board of Trustees.

Committees, Subcommittees, Working Groups, and Task Forces

NERC's technical committees, subcommittees, working groups, and task forces provide technical research and analysis used to justify the development of new standards and provide guidance, when requested, in overseeing field tests or collection and analysis of data. The technical committees, subcommittees, working groups, and task forces provide feedback to drafting teams during both informal and formal comment periods.

The technical committees, subcommittees, working groups, and task forces share their observations regarding the need for new or modified standards or requirements with the standards staff for use in identifying the need for new standards projects for the three-year *Reliability Standards Development Plan*.

Compliance and Certification Committee

The Compliance and Certification Committee is responsible for monitoring NERC's compliance with its reliability standards processes and procedures and for monitoring NERC's compliance with the Rules of Procedure regarding the development of new or revised standards, VRFs, VSLs, definitions, variances, and interpretations. The Compliance and Certification Committee assists in verifying that each proposed standard is enforceable as written before the standard is posted for formal stakeholder comment and balloting.

Compliance Enforcement Program

The NERC compliance enforcement program manages and enforces compliance with approved reliability standards. The compliance enforcement program shall provide feedback to drafting teams during the standards development process to ensure the compliance enforcement program can be practically implemented for the standards under development.

The compliance enforcement program may conduct field tests or data collection related to compliance elements of proposed standards and may provide assistance with field tests or data collection when requested. The compliance enforcement program shares its observations regarding the need for new or modified requirements with the standards staff for use in identifying the need for new standards projects.

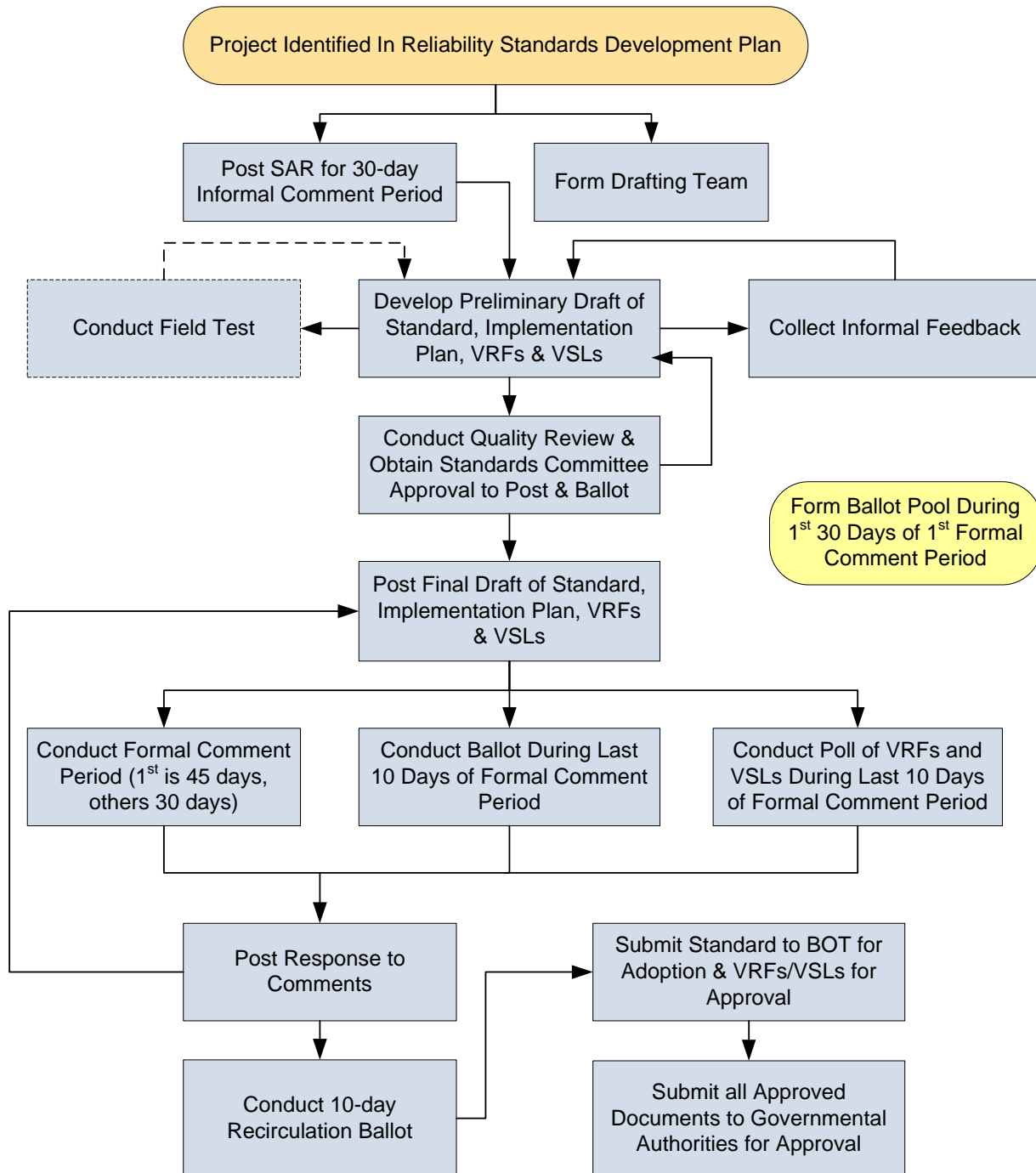
North American Energy Standards Board (NAESB)

While NERC has responsibility for developing standards to support reliability, NAESB has responsibility for developing business practices and coordination between reliability and business practices is needed. The NERC and NAESB developed and approved a procedure¹¹ to guide the development of reliability standards and business practices where the reliability and business practice components are intricately entwined within a proposed standard.

¹¹ The NERC NAESB Template Procedure for Joint Standards Development and Coordination is posted on the Reliability Standards Resources Web Page.

Process for Developing, Modifying, or Retiring a Standard

There are several steps to the development, modification or withdrawal of a reliability standard¹². A typical process for a project identified in the *Reliability Standards Development Plan* that involves a revision to an existing standard is shown below. Note that most projects do not include a field test.



¹² The process described is also applicable to projects used to propose a new or modified definition or variance or to propose retirement of a definition or variance.

Post & Collecting Information on SARs

Standard Authorization Request

A Standard Authorization Request (SAR) is the form used to document the scope and reliability benefit of a proposed project for one or more new or modified standards or the benefit of retiring one or more approved standards. Any entity or individual may propose the development of a new or modified standard, or may propose the retirement of a standard, by submitting a completed SAR¹³ to the standards staff.

Most new standards projects will have been identified in the latest approved *Reliability Standards Development Plan*¹⁴. The initial SAR for these projects shall be drafted by NERC staff and submitted to the Standards Committee with a request to post the SAR for stakeholder review. The Standards Committee has the authority to approve the posting of all SARs for projects that propose developing a new or modified standard or propose retirement of an existing standard.

The standards staff sponsors an open solicitation period each year seeking ideas for new standards projects (using *Reliability Standards Suggestions and Comments forms*). The open solicitation period is held in conjunction with the annual revision to the *Reliability Standards Development Plan*. While the Standards Committee prefers that ideas for new projects be submitted during this annual solicitation period through submittal of a *Reliability Standards Suggestions and Comments Form*¹⁵, a SAR proposing a specific project may be submitted to the standards staff at any time.

Each SAR that proposes a “new” standard, should be accompanied with a technical justification that includes, as a minimum, a discussion of the reliability-related impact of not developing the new standard, and a technical foundation document (e.g., research paper), when needed, to guide the development of the standard.

The standards staff shall review each SAR and work with the submitter to verify that all required information has been provided. All properly completed SARs shall be submitted to the Standards Committee for action at the next regularly scheduled Standards Committee meeting.

When presented with a SAR the Standards Committee shall determine if the SAR is sufficiently stated to guide standard development and whether the SAR is consistent with this manual. The Standards Committee shall take one of the following actions:

- Accept the SAR.
- Remand the SAR back to the standards staff for additional work.
- Reject the SAR. If the Standards Committee rejects a SAR, it shall provide a written explanation for rejection to the sponsor within ten days of the rejection decision.
- Delay action on the SAR pending development of a technical justification for the proposed project

If the Standards Committee remands, rejects, or delays action on a SAR, the sponsor may file an appeal following the appeals process provided in this manual.

If the Standards Committee is presented with a SAR that proposes developing a new standard but does

¹³ The SAR form can be downloaded from the Reliability Standards Resources Web Page.

¹⁴ The latest approved version of the *Reliability Standards Development Plan* is posted on the Reliability Standards Resources Web Page.

¹⁵ The *Reliability Standards Suggestions and Comments Form* can be downloaded from the Reliability Standards Resources Web Page.

not have a technical justification upon which the standard can be developed, the committee shall direct the standards staff to post the SAR for a 30-day comment period solely to collect stakeholder feedback on the scope of technical foundation, if any, needed to support the proposed project. If a technical foundation is determined to be necessary, the Standards Committee shall solicit assistance from NERC's technical committees or other industry experts in providing that foundation before authorizing development of the associated standard.

If the Standards Committee accepts a SAR, the project shall be added to the list of projects approved projects. The Standards Committee shall assign a priority to the project, relative to all other projects under development, and those projects already identified in the *Reliability Standards Development Plan* that are already approved for development. The Standards Committee shall work with the standards staff to coordinate the posting of SARs for new projects, giving consideration to each project's priority.

SAR Posting

When the Standards Committee determines it is ready to initiate a new project the Standards Committee shall direct staff to post the project's SAR in accordance with the following:

- For SARs that are limited to addressing regulatory directives, or revisions to standards that have had some vetting in the industry, authorize posting the SAR for a 30-day informal comment period with no requirement to provide a formal response to the comments received.
- For SARs that address the development of new projects or standards, authorize posting the SAR for a 30-day formal comment period.

If a SAR for a new standard is posted for a formal comment period, the Standards Committee shall appoint a drafting team to work with the staff coordinator in giving prompt consideration to the written views and objections of all participants. The drafting team shall respond to all comments submitted during the public posting period. An effort to resolve all expressed objections shall be made and each objector shall be advised of the disposition of the objection and the reasons therefore. In addition, each objector shall be informed that an appeals procedure exists within the NERC standards process.

While there is no established limit on the number of times a SAR may be posted for comment, the Standards Committee retains the right to reverse its prior decision and reject a SAR if it believes continued revisions are not productive. Once again, the Standards Committee shall notify the sponsor in writing of the rejection within ten days and the may initiate an appeal using the appeals procedure.

During the SAR comment process, the drafting team may become aware of potential regional variances related to the proposed standard. To the extent possible, any regional variances or exceptions should be made a part of the SAR so that, if the SAR is authorized, such variations shall be made a part of the draft new or revised standard.

If stakeholders indicate support for the project proposed with the SAR, the drafting team shall present its work to the Standards Committee with a request that the Standards Committee authorize development of the associated standard.

The Standards Committee, once again considering the public comments received and their resolution, may then take one of the following actions:

- Authorize drafting the proposed standard or revisions to a standard.
- Reject the SAR with a written explanation to the sponsor and post that explanation.

If the Standards Committee rejects a SAR, the sponsor may initiate an appeal.

Form Drafting Team

When the Standards Committee is ready to have a drafting team begin work on developing a new or revised standard, the Standards Committee shall appoint a drafting team, if one was not already appointed to develop the SAR. If the Standards Committee appointed a drafting team to refine the SAR, the same drafting team shall work to develop the associated standard.

If no drafting team is in place, then the Standards Committee may use a public nomination process to populate the standard drafting team, or may use another method that results in a team that collectively has the necessary technical expertise and work process skills to meet the objectives of the project. In some situations, an ad hoc team may already be in place with the requisite expertise and skills and additional members may not be needed. The ideal drafting team consists of 6-8 members, with some diversity amongst the team members with respect to interconnections represented.

The standards staff shall provide a member to support the team with technical writing expertise and shall provide administrative support to the team, guiding the team through the steps in completing its project. In developing the standard, the drafting team members assigned by the Standards Committee shall have final authority over the technical details of the standard, while the technical writer shall provide assistance to the drafting team in assuring that the final draft of the standard meets the quality attributes identified in NERC's Benchmarks for Excellent Standards.

Once it is appointed by the Standards Committee, the standard drafting team is responsible for making recommendations to the Standards Committee regarding the remaining steps in the standards process. The Standards Committee may decide that more than one drafting team is required for a standard action and divide the SAR into multiple efforts. The Standards Committee may also supplement the membership of a standard drafting team at any time to ensure the necessary competencies and diversity of views are maintained throughout the standard development effort.

Develop Preliminary Draft of Standard, Implementation Plan, VRFs and VSLs

Project Schedule

When a drafting team begins its work, either in refining a SAR or in developing or revising a proposed standard, the drafting team shall develop a project schedule and report progress, to the Standards Committee, against that schedule as requested by the Standards Committee.

Draft Standard

The team shall develop a standard that is within the scope of the associated SAR that includes all required elements as described earlier in this manual with a goal of meeting the quality attributes identified in NERC's Benchmarks for Excellent Standards and criteria for governmental approval. The team shall document its justification for the requirements in its proposed standard by explaining how each meets these criteria.

Implementation Plan

As a drafting team drafts its proposed revisions to a reliability standard, that team is also required to develop an implementation plan to identify any factors for consideration when approving the proposed effective date or dates for the associated standard or standards. As a minimum, the implementation plan shall include the following:

- The proposed effective date (the date entities shall be compliant) for the requirements.
- Identification of any new or modified definitions that are proposed for approval with the associated standard.
- Whether there are any prerequisite actions that need to be accomplished before entities are held responsible for compliance with one or more of the requirements.

- Whether approval of the proposed standard will result in any conforming changes to any already approved standards – and identification of those standards and requirements.
- The functional entities that will be required to comply with one or more requirements in the proposed standard.

A single implementation plan may be used for more than one standard. The implementation plan is posted with the associated standard or standards during the 45-day formal comment period and is balloted with the associated standard.

Violation Risk Factors and Violation Severity Levels

The drafting team shall work with NERC staff in developing a set of VRFs and VSLs that meet the latest criteria established by NERC and governmental authorities. The drafting team shall document its justification for selecting each VRF and for setting each set of proposed VSLs by explaining how its proposed VRFs and VSLs meet these criteria.

Before the drafting team has finalized its standard, implementation plan, VRFs and VSLs, the team should seek stakeholder feedback on its preliminary draft documents.

Solicit Informal Feedback¹⁶

Drafting teams may use a variety of methods to collect stakeholder feedback on preliminary drafts of its documents, including the use of informal comment periods, webinars, industry meetings, workshops, or other mechanisms. Information gathered in these informal sessions does not need to be documented and drafting teams are not required to provide written responses to comments received during informal comment solicitations. The intent is to gather stakeholder feedback on a “working document” before the document reaches the point where it is considered the “final draft.”

Conduct Quality Review

The standards staff shall review the “final draft” of the standard, implementation plan, VRFs and VSLs to assess whether the documents are within the scope of the associated SAR, whether the standard is clear and enforceable as written, and whether the standard meets the criteria specified in NERC’s Benchmarks for Excellent Standards and criteria for governmental approval of standards, VRFs and VSLs. The results of this review shall be provided to the drafting team and the Standards Committee with a recommendation on whether the documents are ready for formal posting and balloting.

If the Standards Committee agrees that the proposed standard, implementation plan, VRFs or VSLs pass this review, the Standards Committee shall authorize posting the proposed standard, implementation plan, VRFs and VSLs for a formal comment period, ballot (for the standard and implementation plan), and non-binding poll (for VRFs and VSLs) as soon as the work flow will accommodate.

If the Standards Committee finds that any of the documents do not meet the specified criteria, the Standards Committee shall remand the documents to the drafting team for additional work.

If the standard is outside the scope of the associated SAR, the drafting team shall be directed to either revise the standard so that it is within the approved scope, or submit a request to expand the scope of the approved SAR. If the standard is not clear and enforceable as written, or if the standard or its VRFs or VSLs do not meet the specified criteria, the standard shall be returned to the drafting team with specific identification of any requirement that is deemed to be unclear or unenforceable as written.

¹⁶ While this discussion focuses on collecting stakeholder feedback on proposed standards, implementation plans and VRFs and VSLs, the same process is used to collect stakeholder feedback on proposed new or modified definitions and variances.

Conduct Formal Comment Period

At least one 45-day formal comment period is required for a proposed new or modified standard, its associated VRFs and VSLs, and implementation plan or for a proposal to retire a standard and the associated VRFs, VSLs and implementation plan. Formation of the ballot pool and the initial ballot of the standard and the non-binding poll of the VRFs and VSLs take place during the 45-day formal comment period. If additional formal comment periods are needed, they shall be at least 30-days in length and shall be conducted in parallel with successive ballots and if needed, successive non-binding polls of the VRFs and VSLs.

The intent of the formal comment period is to solicit very specific feedback on the final draft of the standard, VRFs, VSLs, and implementation plan. If stakeholders disagree with some aspect of the proposed set of products, comments provided should suggest specific language that would make the product acceptable to the stakeholder.

The drafting team shall consider and respond to all comments submitted during the formal comment period at the same time and in the same manner as specified for addressing comments submitted with ballots. NERC staff shall provide assistance in responding to comments on VRFs and VSLs.

All comments received and all responses shall be publicly posted. Stakeholders who submit comments objecting to some aspect of the documents posted for comment shall determine if the response provided by the drafting team satisfies the objection. All objectors shall be informed of the appeals process contained within this manual.

For a standard to be enforceable, it shall be approved by its ballot pool, adopted by the NERC Board of Trustees, and then approved by applicable governmental authorities.

Form Ballot Pool

The standards staff shall establish a ballot pool during the first 30 days of the first 45-day formal comment period. The standards staff shall post the proposed standard, its implementation plan, VRFs, and VSLs and shall send a notice to every entity in the Registered Ballot Body to provide notice that there is a new or revised standard proposed for approval and to solicit participants for the associated ballot pool. All members of the Registered Ballot Body are eligible to join each ballot pool to vote on a new or revised reliability standard and its implementation plan. Members who join the ballot pool to vote on the new or revised standard and its implementation plan are automatically entered into the ballot pool to participate in the non-binding poll of the associated VRFs and VSLs.

Any member of the Registered Ballot Body may join or withdraw from the ballot pool until the ballot window opens. No Registered Ballot Body member may join or withdraw from the ballot pool once the first ballot starts through the point in time where balloting for that standard action has ended. The Director of Standards may authorize deviations from this rule for extraordinary circumstances such as the death, retirement, or disability of a ballot pool member that would prevent an entity that had a member in the ballot pool from eligibility to cast a vote during the ballot window. Any approved deviation shall be documented and noted to the Standards Committee.

During a ballot window, NERC shall not sponsor or facilitate public discussion of the standard action under ballot.

Conduct Initial Ballot and Conduct Non-binding Poll

The standards staff shall announce the opening of the initial ballot window and the non-binding poll of VRFs and VSLs. The ballot window and non-binding poll window shall both take place during the last 10 days of a 45-day formal comment period. This allows all stakeholders the opportunity to comment on the final draft of each proposed standard, even those stakeholders who are not members of the ballot pool.

The ballot and non-binding poll shall be conducted electronically. The voting and polling windows shall each be a period of 10 calendar days but both shall be extended, if needed, until a quorum is achieved.

Consider and Respond to Stakeholder and Balloter Comments

The drafting team shall consider every stakeholder comment submitted either in response to the formal comment period or submitted with a ballot that includes a proposal for a specific modification to the standard or its implementation plan posted for comment and approval. The drafting team shall provide a response to each of these proposals indicating whether the drafting team adopted the recommendation, in accordance with the following:

If a Comment:	Then	And
Is unrelated to proposed standard action	Note that comment is unrelated	No further action needed
Proposes change that expands project scope	Note that comment is proposing an expansion	Add item to “issues database” for consideration during next update to the standard
Proposes a modification based on a technical issue not previously identified	Provide the drafting team’s technical analysis of the proposal	If the team accepts the proposal, modify the standard
Proposed a modification based on a technical issue previously vetted	Provide a summary of the vetting and resolution previously reached	No further action needed
Proposes a modification to provide greater clarity	Provide the drafting team’s view as to whether the proposed modification improves clarity	If the team accepts the proposal, modify the standard

If stakeholders submit comments that indicate a specific improvement to one or more of the VRFs or VSLs would improve consensus without violating the criteria for setting VRFs and VSLs, then the drafting team, working with NERC staff, shall consider and respond to each comment, and shall make conforming changes to reflect those comments. There is no requirement to conduct a new non-binding poll of the revised VRFs and VSLs if no changes were made to the associated standard, however if the requirements are modified and conforming changes are made to the associated VRFs and VSLs, another non-binding poll of the revised VRFs and VSLs shall be conducted.

All comments submitted and the responses to those comments shall be publicly posted.

Criteria for Ballot Pool Approval

Ballot pool approval of a reliability standard requires:

- A quorum, which is established by at least 75% of the members of the ballot pool submitting a response with an affirmative vote, a negative vote, or an abstention; and
- A two-thirds majority of the weighted segment votes cast shall be affirmative. The number of votes cast is the sum of affirmative and negative votes, excluding abstentions and non-responses.

The following process¹⁷ is used to determine if there are sufficient affirmative votes.

- The number of affirmative votes cast in each segment shall be divided by the sum of affirmative and negative votes cast to determine the fractional affirmative vote for each segment. Abstentions and non-responses shall not be counted for the purposes of determining the fractional affirmative vote for a segment.
- If there are less than ten entities that vote in a segment, the vote weight of that segment shall be proportionally reduced. Each voter within that segment voting affirmative or negative shall receive a weight of 10% of the segment vote. For segments with ten or more voters, the regular voting procedure would prevail.
- The sum of the fractional affirmative votes from all segments divided by the number of segments voting¹⁸ shall be used to determine if a two-thirds majority has been achieved. (A segment shall be considered as “voting” if any member of the segment in the ballot pool casts either an affirmative or a negative vote.)
- A standard shall be approved if the sum of fractional affirmative votes from all segments divided by the number of voting segments is greater than two thirds.

Each member of the ballot pool may vote one of the following positions:

- Affirmative
- Affirmative, with comment
- Negative without comment
- Negative with comments (if possible reasons should include specific wording or actions that would resolve the objection)
- Abstain

Each ballot pool member submitting a negative vote with comments shall determine if the response provided by the drafting team satisfies those stated concerns. Each such balloter shall be informed of the appeals process contained within this manual.

If there are no negative votes with comments from the initial ballot, then the results of the initial ballot shall stand as final and the draft reliability standard and associated implementation plan shall be deemed to be approved by its ballot pool.

Successive Ballots (Standard has Substantively Changed from Prior Ballot)

If a stakeholder or balloter proposes a significant revision to the standard during the formal comment period or concurrent initial ballot that will improve the quality, clarity, or enforceability of that standard then the drafting team shall make such revisions and post the revised standard for another public comment period and ballot. If the previous ballot achieved a quorum and sufficient affirmative ballots for approval, the comment period shall be 30 days and the new ballot may focus on the entire standard and its implementation plan or may focus only on the element(s) that were changed following the previous ballot.

The drafting team shall address comments submitted during successive ballot periods (comments submitted from stakeholders during the open formal comment period and comments submitted with negative ballots) in the same manner as for the initial ballot. Once the drafting team has a draft standard that has been through a “successive ballot” and the team believes that no additional significant modifications are needed, the standard shall be posted for a Recirculation Ballot.

¹⁷ Examples of Weighted Segment Voting Calculation are posted on the Reliability Standards Resources Web Page.

¹⁸ When less than ten entities vote in a segment, the total weight for that segment shall be determined as one tenth per entity voting, up to ten.

Conduct Recirculation Ballot

(Standard has not Substantively Changed from Prior Ballot)

When the drafting team has reached a point where it has made a good faith effort at resolving applicable objections, the team shall conduct a recirculation ballot. In the recirculation ballot, members of the ballot pool shall again be presented the proposed standard (that has not been significantly changed from the previous ballot) along with the reasons for negative votes, the responses, and any resolution of the differences for a 30-day review period. An insignificant revision is a revision that does not change the scope, applicability, or intent of any requirement and includes but is not limited to things such as correcting the numbering of a requirement, correcting the spelling of a word, adding an obviously missing word, or rephrasing a requirement for improved clarity. There is no formal comment period concurrent with the recirculation ballot and no obligation for the drafting team to respond to any comments submitted during the recirculation ballot.

All members of the ballot pool shall be permitted to reconsider and change their vote from the prior ballot. Members of the ballot pool who did not respond to the prior ballot shall be permitted to vote in the recirculation ballot. In the recirculation ballot, votes shall be counted by exception only — members on the recirculation ballot may indicate a revision to their original vote otherwise their vote shall remain the same as in then prior ballot.

Final Ballot Results

There are no limits to the number of “successive” public comment periods and ballots that can be conducted to result in a standard or interpretation that is clear and enforceable, and achieves a quorum and sufficient affirmative votes for approval. The Standards Committee has the authority to conclude this process or a particular standards action if it becomes obvious that the drafting team cannot develop a standard that is within the scope of the associated SAR, is sufficiently clear to be enforceable, and achieves the requisite weighted segment approval percentage.

The standards staff shall post the final outcome of the ballot process. If the standard is rejected, the process is ended and any further work on the items within the SAR’s original scope shall require a new SAR. If the standard is approved, the consensus standard shall be posted and presented to the Board of Trustees for adoption by NERC.

Board of Trustee Adoption of Standards and Implementation Plans

A reliability standard and its implementation plan submitted for adoption by the Board of Trustees shall be provided to the NERC Board of Trustees at the same time it is posted for the ballot pool’s pre-ballot review. If the standard and implementation plan are approved by their ballot pool, the Board of Trustees shall consider adoption of that reliability standard and its associated implementation plan. In making its decision, the board shall consider the results of the balloting and unresolved dissenting opinions. The board shall adopt or reject a standard and its implementation plan, but shall not modify a proposed reliability standard. If the board chooses not to adopt a standard, it shall provide its reasons for not doing so.

Board of Trustee Approval of Violation Risk Factors and Violation Severity Levels

The board shall consider approval of the VRFs and VSLs associated with a reliability standard. In making its determination, the board shall consider the following:

- The Standards Committee shall present the results of the non-binding poll conducted and a summary of industry comments received on the final posting of the proposed VRFs and VSLs.
- NERC staff shall present a set of recommended VRFs and VSLs that considers the views of the standard drafting team, stakeholder comments received on the draft VRFs and

VSLs during the posting for comment process, the non-binding poll results, appropriate governmental agency rules and directives, and VRF and VSL assignments for other Reliability Standards to ensure consistency and relevance across the entire spectrum of Reliability Standards.

Governmental Approvals

If the board approves a reliability standard and its implementation plan and the associated VRFs and VSLs, the board shall direct NERC staff to file the standard, its implementation plan and its associated VRFs and VSLs, with applicable governmental authorities in the United States, Canada, and Mexico for approval.

Compliance

Once a reliability standard is approved or otherwise made mandatory by applicable governmental authorities in the United States, Canada, and Mexico, all persons and organizations subject to the reliability jurisdiction are required to comply with the standard in accordance with applicable statutes, regulations, and agreements.

Process for Developing a Defined Term

NERC maintains a glossary of approved terms, entitled the “*Glossary of Terms Used in Reliability Standards*.”¹⁹ The glossary includes terms that have been through the formal approval process and are used in one or more NERC reliability standards. There are two sections to the glossary. The first section includes definitions for terms used in continent-wide standards, and the second section includes definitions for terms used in Regional Entity standards that have been adopted by the NERC Board of Trustees.

There are several methods that can be used to add, modify or retire a defined term used in a continent-wide standard.

- Anyone can use a Standard Authorization Request (SAR) to submit a request to add, modify, or retire a defined term.
- Anyone can submit a Standards Comments and Suggestions Form recommending the addition, modification, or retirement of a defined term. (The suggestion would be added to a project and incorporated into a SAR.)
- A drafting team may propose to add, modify, or retire a defined term in conjunction with the work it already performing.

Proposals to Develop a New or Revised Definition

The following considerations should be made when considering proposals for new or revised definitions:

- Some NERC Regional Entities have defined terms that have been approved for use in Regional Reliability Standards, and where the drafting team agrees with a term already defined by a Region, the same definition should be adopted if needed to support a NERC standard.
- If a term used in a reliability standard has a common meaning as found in a collegiate dictionary, the term shall not be proposed for addition to the NERC *Glossary of Terms Used in Reliability Standards*.
- If a term has already been defined, any proposal to modify or delete that term shall consider all uses of the definition in approved standards, with a goal of determining whether the proposed modification is acceptable, and whether the proposed modification would change the scope or intent of any approved standards.
- The North American Energy Standards Board (NAESB) may have a definition for a term, and where the drafting team agrees with a term already defined by NAESB, the same definition should be adopted if needed to support a NERC standard.

Any definition that is balloted separately from a proposed new or modified standard or from a proposal for retirement of a standard shall be accompanied by an implementation plan.

If a SAR is submitted to the standards staff with a proposal for a new or revised definition, the Standards Committee shall consider the urgency of developing the new or revised definition and may direct staff to post the SAR immediately, or may defer posting the SAR until a later time based on its priority relative to other projects already underway or already approved for future development. If the SAR identifies a term that is used in a standard already under revision by a drafting team, the Standards Committee may direct the drafting team to add the term to the scope of the existing project. Each time the Standards Committee

¹⁹ The latest approved version of the glossary is posted on the Standards Web Page.

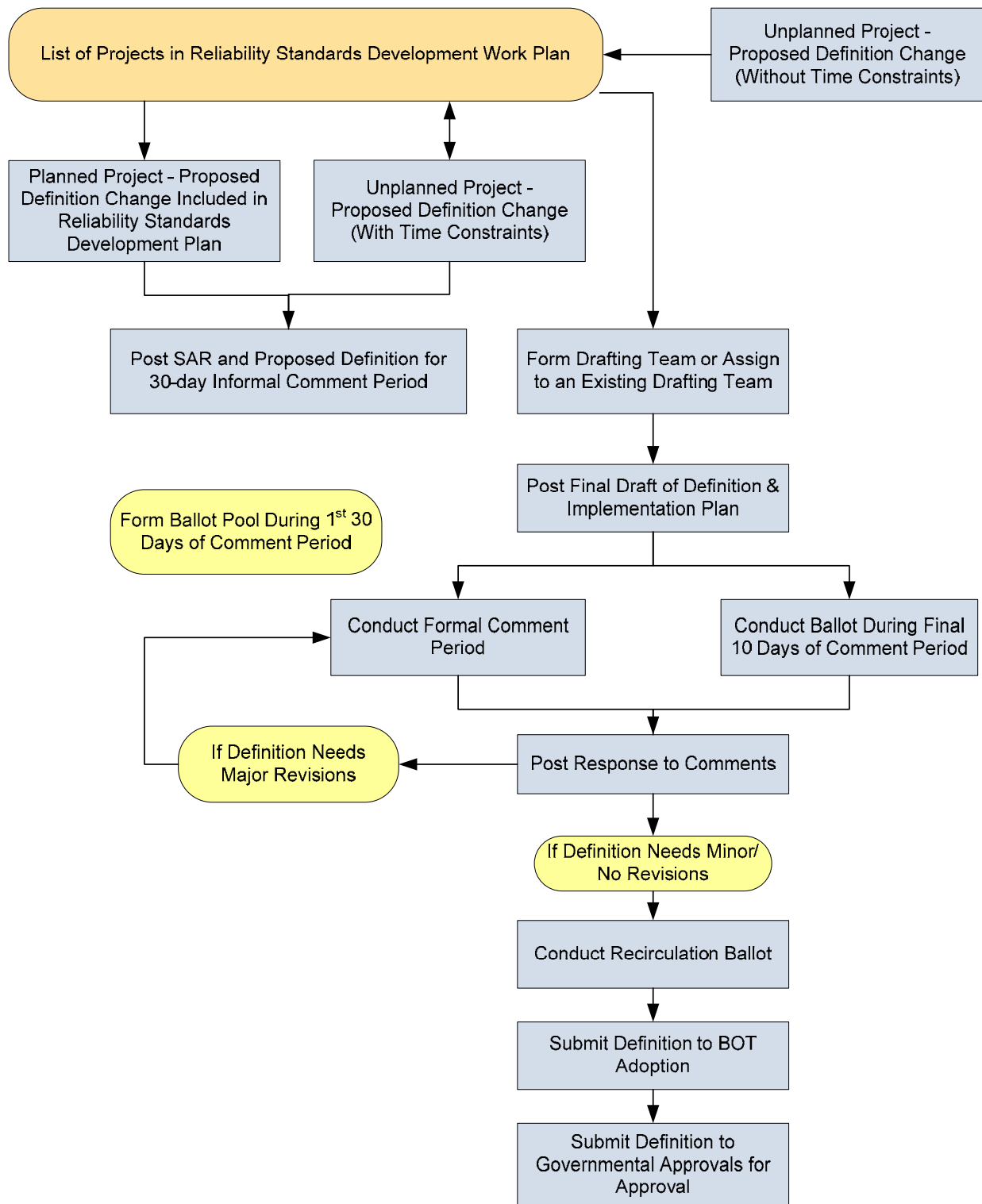
accepts a SAR for a project that was not identified in the *Reliability Standards Development Plan* the project shall be added to the list of approved projects.

Stakeholder Comments and Approvals

Any proposal for a new or revised definition shall be processed in the same manner as a standard. The drafting team shall submit its work for a quality review and the Standards Committee and drafting team shall consider that review when determining whether the definition and its implementation plan are ready for formal comment and balloting. Once authorized by the Standards Committee, the proposed definition and its implementation plan shall be posted for at least one 45-day formal stakeholder comment period and shall be balloted in the same manner as a standard. If a new or revised definition is proposed by a drafting team, that definition may be balloted separately from the associated standard.

Each definition that is approved by its ballot pool shall be submitted to the NERC Board of Trustees for adoption and then filed with applicable governmental authorities for approval in the same manner as a standard.

Process for Developing a New or Revised Definition Initiated with a SAR



Processes for Conducting Field Tests and Collecting and Analyzing Data

While most drafting teams can develop their standards without the need to conduct any field tests and without the need to collect and analyze data, some standard development efforts may involve field tests analysis of data to validate concepts, requirements or compliance elements of standards.

There are three types of field tests — tests of concepts; tests of requirements; and tests of compliance elements.

Field Tests and Data Analysis for Validation of Concepts

Field tests or collection and analysis of data to validate concepts that support the development of requirements should be conducted before the SAR for a project is finalized. If an entity wants to test a technical concept in support of a proposal for a new or revised reliability standard, the entity should either work with one of NERC's technical committees in collecting and analyzing the data or in conducting the field test, or the entity should submit a SAR with a request to collect and analyze data or conduct a field test to validate the concept prior to developing a new or revised standard. The request to collect and analyze data or conduct a field test should include, at a minimum, either the data collection and analysis or field test plan, the implementation schedule, and an expectation for periodic updates of the analysis of the results. If the SAR sponsor has not collected and analyzed the data or conducted the field test, the Standards Committee may solicit support from NERC's technical committees or others in the industry. The results of the data collection and analysis or field test shall then be used to determine whether to add the SAR to the list of projects in the Reliability Standard Development Plan.

If a drafting team finds that it needs to collect and analyze data or conduct a field test of a concept that was not identified when the SAR was accepted, then the Standards Committee may direct the team to withdraw the SAR until the data has been collected and analyzed or until the field test has been conducted and the industry has had an opportunity to review the results for the impact on the scope of the proposed project.

Field Tests and Data Analysis for Validation of Requirements

If a drafting team wants to conduct a field test or collect and analyze data to validate its proposed requirements, measures, or compliance elements in a reliability standard, the team shall first obtain approval from the Standards Committee²⁰. Drafting teams are not required to collect and analyze data or to conduct a field test to validate a standard.

The request should include at a minimum the data collection and analysis or field test plan, the implementation schedule, and an expectation for periodic updates of the results. When authorizing a drafting team to collect and analyze data or to conduct a field test of one or more requirements, the Standards Committee may request inputs on technical matters related from NERC's technical committees or industry experts, and may request the assistance of the compliance organization. All data collection and analysis and all field tests shall be concluded and the results incorporated into the standard requirements as necessary before proceeding to the formal comment period and subsequent balloting.

Field Tests and Data Analysis for Validation of Compliance Elements

²⁰ The Process for Approving Data Collection and Analysis and Field Tests Associated with a Reliability Standard is posted on the Reliability Standards Resources Web Page.

If the Compliance Monitoring and Enforcement Program identifies a need to collect and analyze data or conduct a field test of one or more of the compliance elements of a proposed standard, then the Compliance Monitoring and Enforcement Program shall request the Standards Committee's approval. The request should include at a minimum the data collection and analysis or field test plan, the implementation schedule, and an expectation for periodic updates of the results.

When authorizing a drafting team to collect and analyze data or to conduct a field test of one or more compliance elements of a standard, the Standards Committee shall request the assistance of the Compliance Monitoring and Enforcement Program in conducting the field test.

Communication and Coordination for All Types of Field Tests and Data Analyses

If the conduct of a field test (concepts, requirements or compliance elements) or data collection and analysis renders Registered Entities incapable of complying with the current requirements of an approved standard that is undergoing revision, the drafting team shall request a temporary waiver from compliance to those requirements for entities participating in the field test. Upon request, the Standards Committee shall seek approval for the waiver from the Compliance Monitoring and Enforcement Program prior to the approval of the field test or data collection and analysis.

Once a plan for a field test or a plan for data collection and analysis is approved, the standards staff shall, under the direction of the Standards Committee, coordinate the implementation of the field test or data collection and analysis and shall provide official notice to the participants in the field test or data collection of any applicable temporary waiver to compliance with specific noted requirements. The drafting team conducting the field test shall provide periodic updates on the progress of the field tests or data collection and analysis to the Standards Committee.

The field test plan or data collection and analysis plan, its approval, its participants, and all reports and results shall be publicly posted for stakeholder review on the Standards Web Page.

If a drafting team conducts or participates in a field test or in data collection and analysis (of concepts, requirements or compliance elements), it shall provide a final report that identifies the results and how those results will be used.

Process for Developing an Interpretation

A valid interpretation request is one that requests additional clarity about one or more requirements in approved NERC reliability standards, but does request approval as to how to comply with one or more requirements. A valid interpretation response provides additional clarity about one or more requirements, but does not expand on any requirement and does not explain how to comply with any requirement. Any entity that is directly and materially affected by the reliability of the North American bulk power systems may request an interpretation of any requirement in any continent-wide standard that has been adopted by the NERC Board of Trustees.

The entity requesting the interpretation shall submit a *Request for Interpretation* form²¹ to the standards staff explaining the clarification required, the specific circumstances surrounding the request, and the impact of not having the interpretation provided.

The standards staff shall form a ballot pool and assemble an interpretation drafting team with the relevant expertise to address the clarification. The drafting team is encouraged to solicit informal feedback on its draft interpretation, using whatever methods it deems appropriate. As soon as practical (but within 60 days of the date the request was accepted) the team shall develop a “final draft” interpretation providing the requested clarity.

The final draft interpretation shall be posted for a 45-day formal comment period. Formation of a ballot pool shall take place during the first 30 days of the formal comment period, and the initial ballot of the interpretation shall take place during the last 10 days of the formal comment period. The interpretation drafting team shall consider and respond to all comments submitted during the formal comment period at the same time and in the same manner as specified for addressing comments submitted with ballots.

All comments received and all responses shall be publicly posted. Stakeholders who submit comments objecting to some aspect of the interpretation shall determine if the response provided by the drafting team satisfies the objection. All objectors shall be informed of the appeals process contained within this manual.

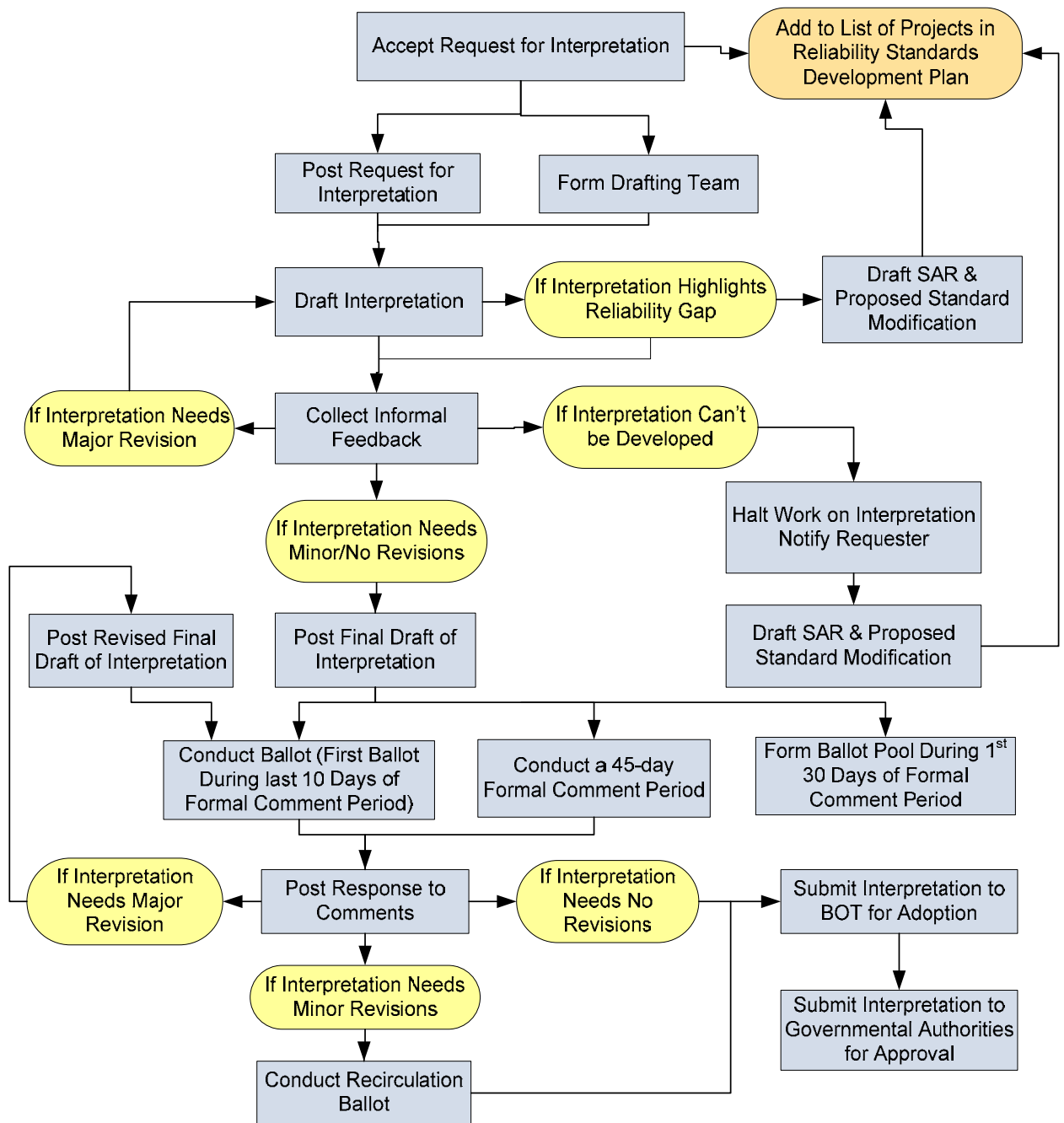
- If the ballot achieves a quorum and a 2/3 weighted segment approval, and the interpretation drafting team believes additional modifications to the interpretation are not necessary (based on a review of the comments submitted with the ballot) the ballot results are final.
- If stakeholder comments indicate the need for minor revisions, the interpretation drafting team shall make those revisions and post the standard for a 10-day recirculation ballot. (A minor revision is a revision that includes but is not limited to things such as correcting the spelling of a word, adding an obviously missing word, or rephrasing a sentence for improved clarity without changing the scope of what was previously written.) If the ballot achieves a quorum and a 2/3 weighted segment approval, and the interpretation drafting team believes additional modifications to the interpretation are not necessary (based on a review of the comments submitted with the ballot) the ballot results are final.
- If stakeholder comments indicate that there is not consensus for the interpretation or if stakeholders propose significant modifications that would improve the interpretation and the interpretation drafting team can revise the interpretation without violating the basic expectations outlined above, the interpretation drafting team shall post the comments received and a revised interpretation for a 10-day ballot period. If the ballot achieves a

²¹ The Request for Interpretation Form is posted on the NERC Standards Web Page.

- quorum and a 2/3 weighted segment approval, and additional modifications to the interpretation are not necessary (based on a review of the comments submitted with the ballot) the ballot results are final.
- If stakeholder comments indicate that there is not consensus for the interpretation, and the interpretation drafting team cannot revise the interpretation without violating the basic expectations outlined above, the interpretation drafting team shall notify the Standards Committee of its conclusion and shall submit a SAR with the proposed modification to the standard. The entity that requested the interpretation shall be notified and the disposition of the interpretation shall be posted.
 - If, during its deliberations, the interpretation drafting team identifies a reliability gap in the standard that is highlighted by the interpretation request, the interpretation drafting team shall notify the Standards Committee of its conclusion and shall submit a SAR with the proposed modification to the standard at the same time it provides its proposed interpretation, recommending use of the expedited standards development process as appropriate to address any significant reliability gap.

If approved by its ballot pool, the interpretation shall be appended to the standard and forwarded to the NERC Board of Trustees for adoption. If an interpretation drafting team proposes a modification to a standard as part of its work in developing an interpretation, the Board of Trustees shall be notified of this proposal at the time the interpretation is submitted for adoption. Following adoption by the Board of Trustees, NERC staff shall file the interpretation for approval by governmental authorities and the interpretation shall become effective when approved by those governmental authorities. The interpretation shall stand until such time as the interpretation can be incorporated into a future revision of the standard or the interpretation is retired due to a future modification of the applicable requirement.

Processing a Request for an Interpretation



Process for Appealing an Action or Inaction

Any entity that has directly and materially affected interests and that has been or will be adversely affected by any procedural action or inaction related to the development, approval, revision, reaffirmation, or withdrawal of a reliability standard, definition, variance, associated implementation plan, or interpretation shall have the right to appeal. This appeals process applies only to the NERC reliability standards processes as defined in this manual, not to the technical content of the standards action.

The burden of proof to show adverse effect shall be on the appellant. Appeals shall be made within 30 days of the date of the action purported to cause the adverse effect, except appeals for inaction, which may be made at any time.

The final decisions of any appeal shall be documented in writing and made public.

The appeals process provides two levels, with the goal of expeditiously resolving the issue to the satisfaction of the participants.

Level 1 Appeal

Level 1 is the required first step in the appeals process. The appellant shall submit (to the Director of Standards) a complaint in writing that describes the procedural action or inaction associated with the standards process. The appellant shall describe in the complaint the actual or potential adverse impact to the appellant. Assisted by staff and industry resources as needed, the Director of Standards shall prepare a written response addressed to the appellant as soon as practical but not more than 45 days after receipt of the complaint. If the appellant accepts the response as a satisfactory resolution of the issue, both the complaint and response shall be made a part of the public record associated with the standard.

Level 2 Appeal

If after the Level 1 Appeal the appellant remains unsatisfied with the resolution, as indicated by the appellant in writing to the Director of Standards, the Director of Standards shall convene a Level 2 Appeals Panel. This panel shall consist of five members appointed by the Board of Trustees. In all cases, Level 2 Appeals Panel members shall have no direct affiliation with the participants in the appeal.

The standards staff shall post the complaint and other relevant materials and provide at least 30 days notice of the meeting of the Level 2 Appeals Panel. In addition to the appellant, any entity that is directly and materially affected by the procedural action or inaction referenced in the complaint shall be heard by the panel. The panel shall not consider any expansion of the scope of the appeal that was not presented in the Level 1 Appeal. The panel may, in its decision, find for the appellant and remand the issue to the Standards Committee with a statement of the issues and facts in regard to which fair and equitable action was not taken. The panel may find against the appellant with a specific statement of the facts that demonstrate fair and equitable treatment of the appellant and the appellant's objections. The panel may not, however, revise, approve, disapprove, or adopt a reliability standard, definition, variance or interpretation or implementation plan as these responsibilities remain with the ballot pool and Board of Trustees respectively. The actions of the Level 2 Appeals Panel shall be publicly posted.

In addition to the foregoing, a procedural objection that has not been resolved may be submitted to the Board of Trustees for consideration at the time the board decides whether to adopt a particular reliability standard, definition, variance or interpretation. The objection shall be in writing, signed by an officer of the objecting entity, and contain a concise statement of the relief requested and a clear demonstration of

the facts that justify that relief. The objection shall be filed no later than 30 days after the announcement of the vote by the ballot pool on the reliability standard in question.

Process for Developing a Variance

A variance is an approved, alternative method of achieving the reliability intent of one or more requirements in a standard. No regional entity or bulk power system owner, operator, or user shall claim a variance from a NERC reliability standard without approval of such a variance through the relevant standard approval procedure for the variance. Each variance from a NERC reliability standard that is approved by NERC and applicable governmental authorities shall be made an enforceable part of the associated NERC reliability standard.

NERC's drafting teams shall aim to develop standards with requirements that apply on a continent-wide basis, minimizing the need for variances while still achieving the standard's reliability objectives. If one or more requirements cannot be met or complied with as written because of a physical difference in the bulk power system or because of an operational difference (such as a conflict with a Federally or Provincially approved tariff), but the requirement's reliability objective can be achieved in a different fashion, an entity or a group of entities may pursue a variance from one or more requirements in a continent-wide standard. It is the responsibility of the entity that needs a variance to identify that need and initiate the processing of that variance through the submittal of a SAR²² that includes a clear definition of the basis for the variance.

There are two types of variances — those that apply on an interconnection-wide basis, and those that apply to one or more entities on less than an interconnection-wide basis.

Interconnection-wide Variances

Any variance from a NERC reliability standard requirement that is proposed to apply to responsible entities within a regional entity organized on an interconnection-wide basis shall be considered an Interconnection-wide Variance and shall be developed through that regional entity's NERC-approved regional reliability standards development procedure.

While an interconnection-wide variance may be developed through the associated Regional Entity standards development process, regional entities are encouraged to work collaboratively with existing continent-wide drafting team to reduce potential conflicts between the two efforts.

An Interconnection-wide Variance from a NERC reliability standard that is determined by NERC to be just, reasonable, and not unduly discriminatory or preferential, and in the public interest, and consistent with other applicable standards of governmental authorities shall be made part of the associated NERC reliability standard. NERC shall rebuttably presume that an Interconnection-wide Variance from a NERC reliability standard that is developed, in accordance with a standards development procedure approved by NERC, by a regional entity organized on an interconnection-wide basis, is just, reasonable, and not unduly discriminatory or preferential, and in the public interest.

Variances that Apply on Less than an Interconnection-wide Basis

Any variance from a NERC reliability standard requirement that is proposed to apply to one or more entities but less than an entire Interconnection (e.g., a variance that would apply to a regional transmission organization or particular market or to a subset of bulk power system owners, operators, or users), shall be considered a Variance. Each request for a Variance shall be initiated through a SAR, and processed and approved in the same manner as a continent-wide standard, using the standards development process defined in this manual.

²² A sample of a SAR that identifies the need for a Variance and a sample Variance are posted as resources on the Reliability Standards Resources Web Page.

Expedited Standards Development Process

NERC may need to develop a new or modified standard, VRFs, VSLs, definition, variance, or implementation plan²³ under specific time constraints or to meet an urgent reliability issue such that there isn't sufficient time to follow all the steps in the normal standards development process. Under those conditions, the Standards Committee shall have the authority to approve any of the following actions to expedite development:

- Shorten the 45-day formal comment period
- Shorten the 30-day period for forming the ballot pool
- Allow significant modifications following the initial ballot without the need for another formal comment period provided the modifications are highlighted before conducting any successive ballot
- Shorten any of the 10-day ballot windows

If a new or modified standard is developed, approved by its ballot pool, and subsequently adopted by the NERC Board of Trustees through this expedited process, one of the following three actions shall occur:

- If the standard is to be made permanent without additional substantive changes, then a SAR and a proposed standard shall be submitted to the standards staff immediately after the ballot. The project shall be added to the list of approved projects and shall proceed through the regular standard development process, including balloting by stakeholders, without any intentional delay.
- If the standard is to be substantively revised or replaced by a new standard, then a project for the new or revised standard shall be added to the list of projects to be added to the Reliability Standard Development Plan. The project shall be initiated as soon as practical after the ballot and the project shall proceed through the regular standard development process, including balloting by stakeholders, as soon as practical but within two years of the date the standard was approved by stakeholders using the expedited process.
- The standard shall be withdrawn through a ballot of the stakeholders within two years of the date the standard was approved by stakeholders using the expedited process.

²³ For the remainder of the description of the expedited standards development process, where the word, "standard" is used, the same process can be applied to a definition, variance, or implementation plan.

Processes for Developing a Standard Related to a Confidential Issue

While it is NERC's intent to use its ANSI-accredited standards development process for developing its reliability standards, NERC has an obligation as the ERO to ensure that there are reliability standards in place to preserve the reliability of the interconnected bulk power systems throughout North America. When faced with a national security emergency situation, NERC may use one of the following special processes to develop a standard that addresses an issue that is confidential. Standards developed using one of the following processes shall be called, "special standards" and shall not be filed with ANSI for approval as ANSI standards.

The NERC Board of Trustees may direct the development of a new or revised reliability standard to address a national security situation that involves confidential issues. These situations may involve imminent or long-term threats. In general, these board directives will be driven by information from the President of the United States of America or the Prime Minister of Canada or a national security agency or national intelligence agency of either or both governments indicating (to the ERO) that there is a national security threat to the reliability of the bulk power system²⁴.

There are two special processes for developing standards responsive to confidential issues – one process where the confidential issue is "imminent", and one process where the confidential issue is "not imminent."

Process for Developing Standards Responsive to Imminent, Confidential Issues

If the NERC Board of Trustees directs the immediate development of a new or revised reliability standard to address a confidential national security emergency situation, the standards staff shall develop a SAR, form a ballot pool (to vote on the standard and its implementation plan and to participate in the non-binding poll of VRFs and VSLs) and assemble a slate of pre-defined subject matter experts as a proposed drafting team for approval by the Standards Committee's Officers. All members of the Registered Ballot Body shall have the opportunity to join the ballot pool.

Drafting Team Selection

The standard drafting team selection process shall be limited to just those candidates who have already been identified as having the appropriate security clearance, the requisite technical expertise, and either have signed or are willing to sign a strict confidentiality agreement.

Standards Committee Authority

Depending upon the level of urgency, the Standards Committee's Officers may authorize reducing or eliminating the 30-day pre-ballot review period, and may reduce the duration of both the initial ballot and the recirculation ballots to as few as 5 days, and shall allow significant modifications between the initial ballot and the recirculation ballot.

Work of Drafting Team

The standard drafting team shall perform all its work under strict security and confidential rules. The standard drafting team shall develop the new or revised standard, its implementation plan, and working with NERC staff shall develop associated VRFs and VSLs.

²⁴ The NERC board may direct the immediate development and issuance of an Essential Action alert and then may also direct the immediate development of a new or revised reliability standard.

The standard drafting team shall review its work, to the extent practical, as it is being developed with officials from the appropriate governmental agencies in the U.S. and Canada, under strict security and confidentiality rules.

Formal Stakeholder Comment & Ballot Window

The draft standard, its implementation plan and VRFs and VSLs shall be distributed for a formal comment period, under strict confidentiality rules, only to those entities that are listed in the NERC compliance registry to perform one of the functions identified in the applicability section of the standard and have identified individuals from their organizations that have signed confidentiality agreements with NERC.²⁵ At the same time, the standard shall be distributed to the members of the ballot pool for review and ballot. The standards staff shall not post or provide the ballot pool with any confidential background information.

The drafting team, working with the standards staff, shall consider and respond to all comments, make any necessary conforming changes to the standard, its implementation plan, and its VRFs and VSLs and shall distribute the comments, responses and any revision to the same population as received the initial set of documents for formal comment and ballot.

Board of Trustee Actions

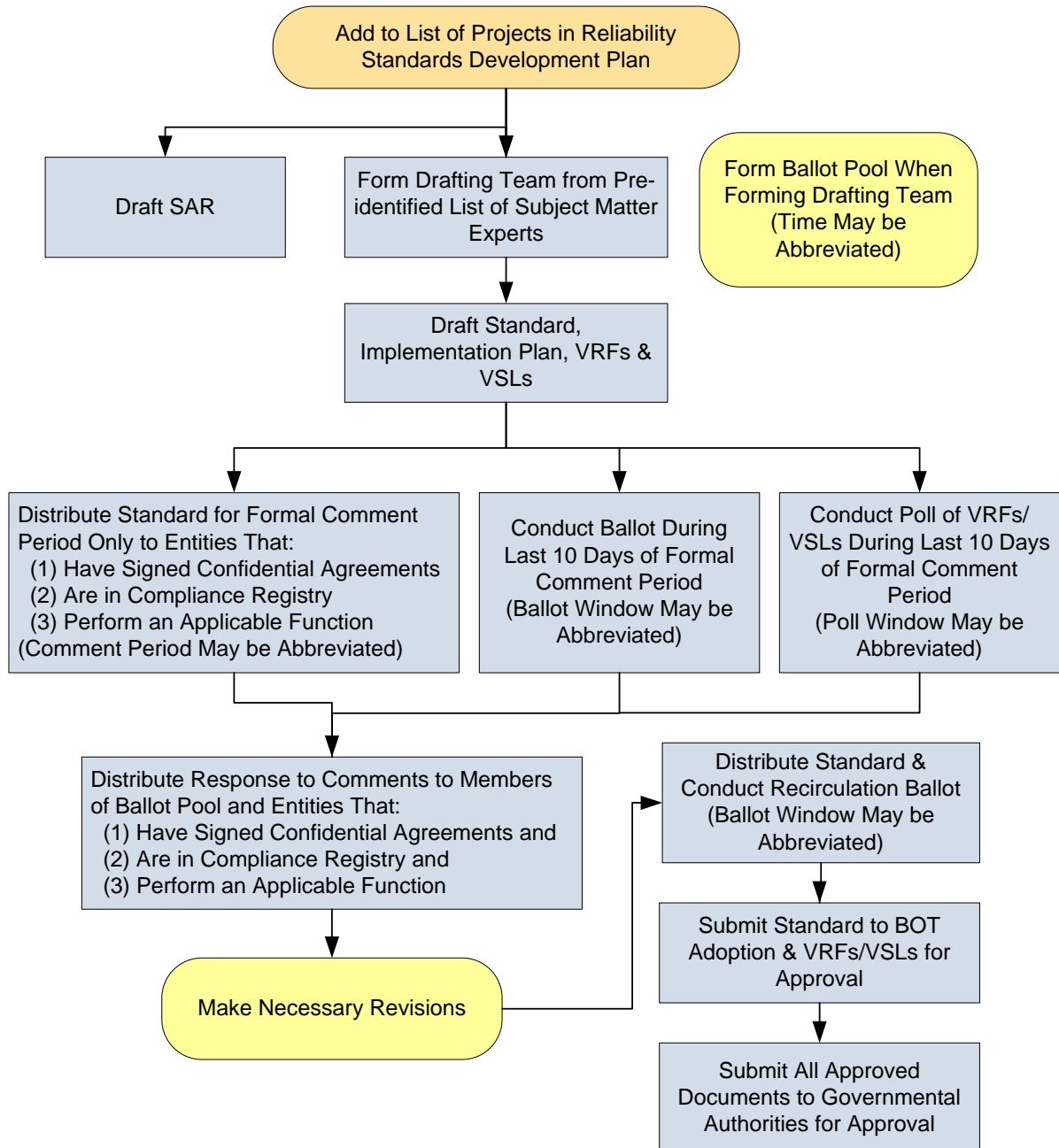
Each standard and implementation plan developed through this process shall be submitted to the NERC Board of Trustees for adoption and the associated VRFs and VSLs shall be filed with the Board of Trustees for approval.

Governmental Approvals

All approved documents shall be filed for approval with applicable governmental authorities.

²⁵ In this phase of the process, only the proposed standard shall be distributed to those entities expected to comply, not the rationale and justification for the standard. Only the special drafting team members, who have the appropriate security credentials, shall have access to this rationale and justification.

Developing a Standard Responsive to an Imminent, Confidential Issue



Process for Developing Standards Responsive to Non-imminent, Confidential Issues

If the NERC Board of Trustees directs the immediate development of a new or revised reliability standard to address a confidential national security emergency situation, the standards staff shall develop a SAR, form a ballot pool (to vote on the standard and its implementation plan and to participate in the non-binding poll of VRFs and VSLs) and assemble a slate of pre-defined subject matter experts as a proposed drafting team for approval by the Standards Committee's Officers. All members of the Registered Ballot Body shall have the opportunity to join the ballot pool.

Drafting Team Selection

The drafting team selection process shall be limited to just those candidates who have already been identified as having the appropriate security clearance, the requisite technical expertise, and either have signed or are willing to sign a strict confidentiality agreement.

Work of Drafting Team

The drafting team shall perform all its work under strict security and confidential rules. The standard drafting team shall develop the new or revised standard, its implementation plan, and working with NERC staff shall develop associated VRFs and VSLs.

The drafting team shall review its work, to the extent practical, as it is being developed with officials from the appropriate governmental agencies in the U.S. and Canada, under strict security and confidentiality rules.

Formal Stakeholder Comment & Ballot Window

The draft standard, its implementation plan and VRFs and VSLs shall be distributed for a formal comment period, under strict confidentiality rules, only to those entities that are listed in the NERC compliance registry to perform one of the functions identified in the applicability section of the standard and have identified individuals from their organizations that have signed confidentiality agreements with NERC.²⁶ At the same time, the standard shall be distributed to the members of the ballot pool for review and ballot. The standards staff shall not post or provide the ballot pool with any confidential background information.

Revisions to Standard, Implementation Plan, VRFs and VSLs

The drafting team, working with the standards staff shall work to refine the standard, implementation plan, VRFs and VSLs in the same manner as for a new standard following the "normal" standards development process described earlier in this manual with the exception that distribution of the comments, responses, and new drafts shall be limited to those entities that are in the ballot pool and those entities that are listed in the NERC compliance registry to perform one of the functions identified in the applicability section of the standard and have identified individuals from their organizations that have signed confidentiality agreements with NERC

Board of Trustee Action

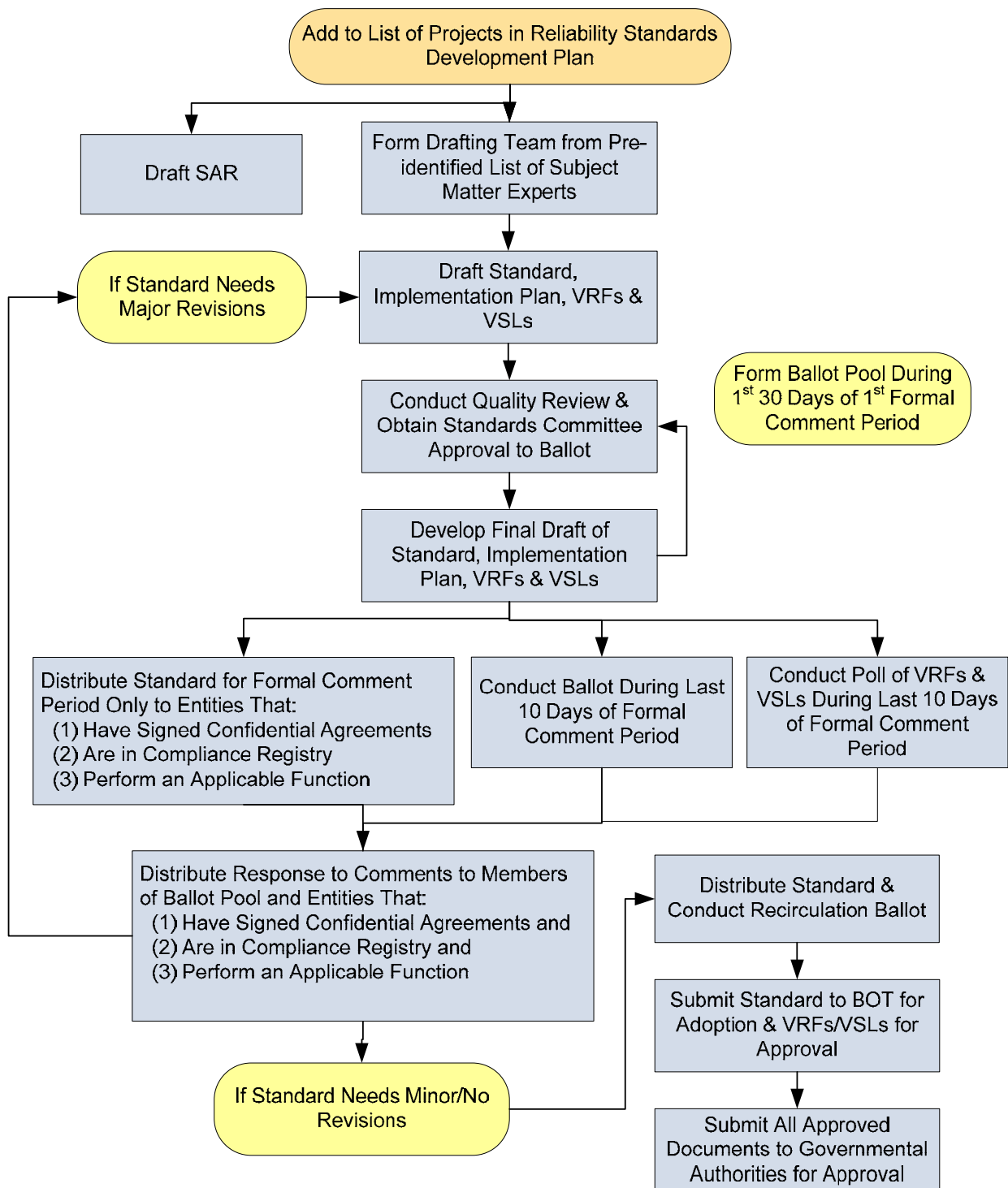
Each standard and implementation plan developed through this process shall be submitted to the NERC Board of Trustees for adoption and the associated VRFs and VSLs shall be filed with the Board of Trustees for approval.

Governmental Approvals

All approved documents shall be filed for approval with applicable governmental authorities.

²⁶ In this phase of the process, only the proposed standard shall be distributed to those entities expected to comply, not the rationale and justification for the standard. Only the special drafting team members, who have the appropriate security credentials, shall have access to this rationale and justification.

Developing a Standard Responsive to a Non-imminent, Confidential Issue



Process for Approving Supporting Documents

The following types of documents are samples of the types of supporting documents that may be developed to enhance stakeholder understanding and implementation of a reliability standard. These documents may explain or facilitate implementation of standards but do not themselves contain mandatory requirements subject to compliance review. Any requirements that are mandatory shall be incorporated into the standard in the standard development process.

While most supporting documents are developed by the drafting team working to develop the associated standard, any entity may develop a supporting document associated with a reliability standard.

The Standards Committee shall authorize the posting of all supporting references²⁷ that are linked to an approved standard. Prior to granting approval to post a supporting reference with a link to the associated standard, the Standards Committee shall verify that the document has had stakeholder review to verify the accuracy of the technical content. While the Standards Committee has the authority to approve the posting of each such reference, stakeholders, not the Standards Committee, verify the accuracy of the document's contents.

Type of Document	Description
Reference	Descriptive, technical information or analysis or explanatory information to support the understanding and interpretation of a reliability standard. A standard reference may support the implementation of a reliability standard or satisfy another purpose consistent with the reliability and market interface principles.
Supplement	Data forms, pro forma documents, and associated instructions that support the implementation of a reliability standard.
Training Material	Documents that support the implementation of a reliability standard.
Procedure	Step-wise instructions defining a particular process or operation. Procedures may support the implementation of a reliability standard or satisfy another purpose consistent with the reliability and market interface principles.
White Paper	An informal paper stating a position or concept. A white paper may be used to propose preliminary concepts for a standard or one of the documents above.

²⁷ The Standards Committee's Procedure for Approving the Posting of Reference Documents is posted on the Reliability Standards Resources Web Page.

Process for Correcting Errata

From time to time, an error may be discovered in an approved reliability standard. If the Standards Committee agrees that the correction of the error does not change the scope or intent of the associated standard, and agrees that the correction has no material impact on the end users of the standard, then the correction shall be submitted for information to the NERC Board of Trustees and filed for approval with applicable governmental authorities. The NERC Board of Trustees has resolved to concurrently approve any errata approved by the Standards Committee.

Process for Conducting Five-Year Review

Each reliability standard developed through NERC's ANSI-accredited standards development process shall be reviewed at least once every five years from the effective date of the standard or the date of the latest Board of Trustees adoption to a revision of the standard, whichever is later.

The *Reliability Standards Development Plan* shall include projects that address this five-year review of standards.

- If a standard is nearing its five-year review and has issues that need resolution, then the *Reliability Standards Development Plan* shall include a project for the complete review and review and associated revision of that standard that includes addressing all outstanding governmental directives, all approved interpretations, and all unresolved issues identified by stakeholders.
- If a standard is nearing its five-year review and there are no outstanding governmental directives interpretations, or unresolved stakeholder issues associated with that standard, then the *Reliability Standards Development Plan* shall include a project solely for the "five-year review" of that standard.

For a project that is focused solely on the five-year review, the Standards Committee shall appoint a review team of subject matter experts to review the standard and recommend whether the standard should be reaffirmed, revised, or withdrawn. Each review team shall post its recommendations for a 45-day formal stakeholder comment period and shall provide those stakeholder comments to the Standards Committee for consideration.

- If a review team recommends reaffirming a standard, the Standards Committee shall submit the reaffirmation to the Board of Trustees for adoption and then to governmental authorities for approval. Reaffirmation does not require approval by stakeholder ballot.
- If a review team recommends modifying or withdrawing a standard, the team shall develop a SAR with such a proposal and the SAR shall be submitted to the Standards Committee for prioritization as a new project. Each existing standard recommended for modification or withdrawal shall remain in effect until the action to modify or withdraw the standard is approved by its ballot pool, adopted by the Board of Trustees, and approved by applicable governmental authorities.

In the case of reaffirmation of a standard, the standard shall remain in effect until the next five-year review or until the standard is otherwise modified or withdrawn by a separate action.

Public Access to Standards Information

Online Standards Information System

The standards staff shall maintain an electronic copy of information regarding currently proposed and currently in effect reliability standards. This information shall include current standards in effect, proposed revisions to standards, and proposed new standards. This information shall provide a record, for at a minimum the previous five years, of the review and approval process for each reliability standard, including public comments received during the development and approval process.

Archived Standards Information

The staff shall maintain a historical record of reliability standards information that is no longer maintained online. Archived information shall be retained indefinitely as practical, but in no case less than five years or one complete standard cycle from the date on which the standard was no longer in effect. Archived records of standards information shall be available electronically within 30 days following the receipt by the standards staff of a written request.

Process for Updating Standards Processes

Requests to Revise the Reliability Standards Development Procedure

Any person or entity may submit a request to modify one or more of the processes contained within this manual. The Standards Committee shall oversee the handling of each request. The Standards Committee shall prioritize all requests, merge related requests, and respond to each sponsor within 30 calendar days.

The Standards Committee shall post the proposed revisions for a 45-day formal comment period. Based on the degree of consensus for the revisions, the Standards Committee shall:

- a. Submit the revised process or processes for ballot pool approval;
- b. Repeat the posting for additional inputs after making changes based on comments received;
- c. Remand the proposal to the sponsor for further work; or
- d. Reject the proposal.

The Registered Ballot Body shall be represented by a ballot pool. The ballot procedure shall be the same as that defined for approval of a standard, including the use of a recirculation ballot if needed. If the proposed revision is approved by the ballot pool, the Standards Committee shall submit the revised procedure to the board for adoption. The Standards Committee shall submit to the board a description of the basis for the changes, a summary of the comments received, and any minority views expressed in the comment and ballot process. The proposed revisions shall not be effective until approved by the NERC Board of Trustees and applicable governmental authorities.