# Standard Development Timeline

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

## Description of Current Draft

This is the first draft of proposed standard for formal a 45-day comment period.

| Completed Actions | Date |
|---|---|
| Standards Committee approved Standards Authorization Request (SAR) for posting | July 22, 2020 |
| SAR posted for comment | February 19 – March 19, 2020 |
| SAR posted for comment | April 22 – May 21, 2020 |
| 45-day initial formal comment period with ballot | January 27 – March 12, 2021 |
| 25-day initial formal comment period with ballot | April 2 – April 27, 2021 |

| Anticipated Actions | Date |
|---|---|
| 10-day final ballot | May 2021 |
| NERC Board (Board) adoption | June 11, 2021 |

# A. Introduction

1. **Title:** Reliability Coordinator Data Specification and Collection
2. **Number:** IRO-010-4
3. **Purpose:** To prevent instability, uncontrolled separation, or Cascading outages that adversely impact reliability, by ensuring the Reliability Coordinator has the data it needs to monitor and assess the operation of its Reliability Coordinator Area.
4. **Applicability**

   **4.1.** Reliability Coordinator

   **4.2.** Balancing Authority

   **4.3.** Generator Owner

   **4.4.** Generator Operator

   **4.5.** Transmission Operator

   **4.6.** Transmission Owner

   **4.7.** Distribution Provider
5. **Effective Date:** See Implementation Plan for Project 2019-06.

# B. Requirements

**R1.** The Reliability Coordinator shall maintain a documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. The data specification shall include but not be limited to: *(Violation Risk Factor: Low) (Time Horizon: Operations Planning)*

**1.1.** A list of data and information needed by the Reliability Coordinator to support its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments including non-BES data and external network data, as deemed necessary by the Reliability Coordinator.

**1.2.** Provisions for notification of current Protection System and Remedial Action Scheme (RAS) status or degradation that impacts System reliability.

**1.3.** Provisions for notification of BES generating unit(s) during local forecasted cold weather to include:

**1.3.1.** Operating limitations based on:

**1.3.1.1.** capability and availability;

**1.3.1.2.** fuel supply and inventory concerns;

**1.3.1.3.** fuel switching capabilities; and

**1.3.1.4.** environmental constraints

**1.3.2.** Generating unit(s):

**2.3.2.1.** minimum design temperature; or

**2.3.2.2.** minimum historical operating temperature; or

**2.3.2.3.** engineering analysis to determine current minimum cold weather performance temperature.

**1.4.** A periodicity for providing data.**1.5.** The deadline by which the respondent is to provide the indicated data.

**M1.** The Reliability Coordinator shall make available its dated, current, in force documented specification for data.

**R2.** The Reliability Coordinator shall distribute its data specification to entities that have data required by the Reliability Coordinator's Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. *(Violation Risk Factor: Low) (Time Horizon: Operations Planning)*

**M2.** The Reliability Coordinator shall make available evidence that it has distributed its data specification to entities that have data required by the Reliability Coordinator's Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. This evidence could include but is not limited to web postings with an electronic notice of the posting, dated operator logs, voice recordings, postal receipts showing the recipient, date and contents, or e-mail records.

**R3.** Each Reliability Coordinator, Balancing Authority, Generator Owner, Generator Operator, Transmission Operator, Transmission Owner, and Distribution Provider receiving a data specification in Requirement R2 shall satisfy the obligations of the documented specifications using: *(Violation Risk Factor: Medium) (Time Horizon: Operations Planning, Same-Day Operations, Real-time Operations)*

**3.1.** A mutually agreeable format

**3.2.** A mutually agreeable process for resolving data conflicts

**3.3.** A mutually agreeable security protocol

**M3.** The Reliability Coordinator, Balancing Authority, Generator Owner, Generator Operator, Reliability Coordinator, Transmission Operator, Transmission Owner, and Distribution Provider receiving a data specification in Requirement R2 shall make available evidence that it satisfied the obligations of the documented specification using the specified criteria. Such evidence could include but is not limited to electronic or hard copies of data transmittals or attestations of receiving entities.

# C. Compliance

## 1. Compliance Monitoring Process

### 1.1. Compliance Enforcement Authority

"Compliance Enforcement Authority" (CEA) means NERC or the Regional Entity, or any entity as otherwise designated by an Applicable Governmental Authority, in their respective roles of monitoring and/or enforcing compliance with the mandatory and enforceable Reliability Standards in their respective jurisdictions.

### 1.2. Evidence Retention

The following evidence retention period(s) identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the CEA may ask an entity to provide other evidence to show that it was compliant for the full-time period since the last audit.

The Reliability Coordinator, Balancing Authority, Generator Owner, Generator Operator, Transmission Operator, Transmission Owner, and Distribution Provider shall each keep data or evidence to show compliance as identified below unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation.

The Reliability Coordinator shall retain its dated, current, in force documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments for Requirement R1, Measure M1 as well as any documents in force since the last compliance audit.

The Reliability Coordinator shall keep evidence for three calendar years that it has distributed its data specification to entities that have data required by the Reliability Coordinator's Operational Planning Analyses, Real-time monitoring, and Real-time Assessments for Requirement R2, Measure M2.

Each Reliability Coordinator, Balancing Authority, Generator Owner, Generator Operator, Transmission Operator, Transmission Owner, and Distribution Provider receiving a data specification shall retain evidence for the most recent 90-calendar days that it has satisfied the obligations of the documented specifications in accordance with Requirement R3 and Measurement M3.

### 1.3. Compliance Monitoring and Enforcement Program

As defined in the NERC Rules of Procedure, "Compliance Monitoring and Enforcement Program" refers to the identification of the processes that will be used to evaluate data or information for the purpose of assessing performance or outcomes with the associated reliability standard.

## Violation Severity Levels

| R# | Time Horizon | VRF | Violation Severity Levels | | | |
|---|---|---|---|---|---|---|
| | | | Lower | Moderate | High | Severe |
| **R1** | Operations Planning | Low | The Reliability Coordinator did not include two or fewer of the parts (Part 1.1 through Part 1.5) of the documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. | The Reliability Coordinator did not include three of the parts (Part 1.1 through Part 1.5) of the documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. | The Reliability Coordinator did not include four of the parts (Part 1.1 through Part 1.5) of the documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. | The Reliability Coordinator did not include any of the parts (Part 1.1 through Part 1.5) of the documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time monitoring, and Real-time Assessments.<br>OR,<br>The Reliability Coordinator did not have a documented specification for the data necessary for it to perform its Operational Planning Analyses, Real-time |

| R# | Time Horizon | VRF | Violation Severity Levels | | | |
|---|---|---|---|---|---|---|
| | | | Lower | Moderate | High | Severe |
| | | | | | | monitoring, and Real-time Assessments. |
| For the Requirement R2 VSLs only, the intent of the SDT is to start with the Severe VSL first and then to work your way to the left until you find the situation that fits. In this manner, the VSL will not be discriminatory by size of entity. If a small entity has just one affected reliability entity to inform, the intent is that that situation would be a Severe violation. | | | | | | |
| **R2** | Operations Planning | Low | The Reliability Coordinator did not distribute its data specification as developed in Requirement R1 to one entity, or 5% or less of the entities, whichever is greater, that have data required by the Reliability Coordinator's Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. | The Reliability Coordinator did not distribute its data specification as developed in Requirement R1 to two entities, or more than 5% and less than or equal to 10% of the reliability entities, whichever is greater, that have data required by the Reliability Coordinator's Operational Planning Analyses, and Real-time monitoring, and Real-time Assessments. | The Reliability Coordinator did not distribute its data specification as developed in Requirement R1 to three entities, or more than 10% and less than or equal to 15% of the reliability entities, whichever is greater, that have data required by the Reliability Coordinator's Operational Planning Analyses, Real-time monitoring, and | The Reliability Coordinator did not distribute its data specification as developed in Requirement R1 to four or more entities, or more than 15% of the entities, whichever is greater, that have data required by the Reliability Coordinator's Operational Planning Analyses, Real-time monitoring, and Real-time Assessments. |

| R# | Time Horizon | VRF | Violation Severity Levels | | | |
|---|---|---|---|---|---|---|
| | | | Lower | Moderate | High | Severe |
| | | | | | Real-time Assessments. | |
| **R3** | Operations Planning, Same-Day Operations, Real-time Operations | Medium | The responsible entity receiving a data specification in Requirement R2 satisfied the obligations of the documented specifications for data but failed to follow one of the criteria shown in Parts 3.1 – 3.3. | The responsible entity receiving a data specification in Requirement R2 satisfied the obligations of the documented specifications for data but failed to follow two of the criteria shown in Parts 3.1 – 3.3. | The responsible entity receiving a data specification in Requirement R2 satisfied the obligations of the documented specifications for data but failed to follow any of the criteria shown in Parts 3.1 – 3.3. | The responsible entity receiving a data specification in Requirement R2 did not satisfy the obligations of the documented specifications for data. |

## D. Regional Variances

None.

## E. Interpretations

None.

## F. Associated Documents

None.

## Version History

| Version | Date | Action | Change Tracking |
|---|---|---|---|
| 1 | October 17, 2008 | Adopted by Board of Trustees | New |
| 1a | August 5, 2009 | Added Appendix 1: Interpretation of R1.2 and R3 as approved by Board of Trustees | Addition |
| 1a | March 17, 2011 | Order issued by FERC approving IRO-010-1a (approval effective 5/23/11) | |
| 1a | November 19, 2013 | Updated VRFs based on June 24, 2013 approval | |
| 2 | April 2014 | Revisions pursuant to Project 2014-03 | |
| 2 | November 13, 2014 | Adopted by NERC Board of Trustees | Revisions under Project 2014-03 |
| 2 | November 19, 2015 | FERC approved IRO-010-2. Docket No. RM15-16-000 | |
| 3 | February 6, 2020 | Adopted by NERC Board of Trustees | Revisions under Project 2017-07 |
| 4 | TBD | Adopted by NERC Board of Trustees | Revisions under Project 2019-06 Cold Weather |
| 3 | October 30, 2020 | FERC approved IRO-010-2. Docket No. RD20-4-000 | |

| | | | |
|---|---|---|---|
| 4 | TBD | Adopted by NERC Board of Trustees | Revisions under Project 2019-06 |