

## Standard Development Timeline

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

### Development Steps Completed

SAR posted for comment February 21, 2014 to March 24, 2014

First posting May 19, 2014 to July 2, 2014

### Proposed Action Plan and Description of Current Draft

This is the second posting of the revised standard under Project 2014-03 Revisions to the TOP/IRO Reliability Standards. The SDT is working under a deadline for filing the revised standards with FERC of January 15, 2015.

| Anticipated Actions | Anticipated Date |
|---------------------|------------------|
| Final ballot        | October 2014     |
| BOT                 | November 2014    |

### Version History

| Version | Date       | Action                                    | Change Tracking |
|---------|------------|---|-----------------|
| 1       | April 2014 | New standard developed by Project 2014-03 | New             |
|         |            |   |                 |
|         |            |   |                 |
|         |            |   |                 |

### **Definitions of Terms Used in Standard**

*This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.*

**There are no new or revised definitions proposed in this standard revision.**

*When this standard has received ballot approval, the text boxes will be moved to the Application Guidelines Section of the Standard.*

### A. Introduction

1. **Title: Outage Coordination**
2. **Number: IRO-017-1**
3. **Purpose:** To ensure that outages are properly coordinated in the Operations Planning time horizon and Near-Term Transmission Planning Horizon.
4. **Applicability:**
  - 4.1. Reliability Coordinator
  - 4.2. Transmission Operator
  - 4.3. Balancing Authority
  - 4.4. Planning Coordinator
  - 4.5. Transmission Planner
5. **Effective Date:**

The standard shall become effective on the first day of the first calendar quarter that is twelve (12) months after the date that the standard is approved by an applicable governmental authority or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective on the first day of the first calendar quarter that is twelve (12) months after the date the standard is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction.
6. **Background:**

See Project 2014-03 [project page](#).

## B. Requirements and Measures

**Rationale:** This standard is in response to issues raised in NOPR paragraph 90 and recommendations made by the Independent Expert Review Panel and SW Outage Report on the need for an outage coordination standard. It allows for one cohesive standard to address all outage coordination concerns as opposed to having multiple requirements spread throughout the various standards.

**Time Horizon:** The official definition of the Operations Planning Time Horizon is: “operating and resource plans from day-ahead up to and including seasonal.” The SDT equates ‘seasonal’ as being up to one year out and that these requirements covers the period from day-ahead to one year out.

- R1.** Each Reliability Coordinator shall develop, implement, and maintain an outage coordination process for generation and Transmission outages within its Reliability Coordinator Area. The outage coordination process shall: [*Violation Risk Factor: Medium*] [*Time Horizon: Operations Planning*]
  - 1.1.** Identify applicable roles and reporting responsibilities including:
    - 1.1.1.** Development and communication of outage schedules.
    - 1.1.2.** Assignment of coordination responsibilities for outage schedules between Transmission Operator(s) and Balancing Authority(s).
  - 1.2.** Specify outage submission timing requirements.
  - 1.3.** Define the process to evaluate the impact of Transmission and generator outages within its Wide Area.
  - 1.4.** Define the process to coordinate the resolution of identified outage conflicts with its Transmission Operators and Balancing Authorities, and other Reliability Coordinators.
- M1.** Each Reliability Coordinator shall make available its dated, current, in force outage coordination process for generation and Transmission outages within its Reliability Coordinator Area.
- R2.** Each Transmission Operator and Balancing Authority shall perform the functions specified in its Reliability Coordinator outage coordination process. [*Violation Risk Factor: Medium*] [*Time Horizon: Operations Planning*]

- M2.** Each Transmission Operator and Balancing Authority shall provide evidence upon request that it performed the functions specified in its Reliability Coordinator outage coordination process. Such 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.

**Rationale for Requirement R3:** Planning Assessment is a defined term and a document that Planning Coordinators and Transmission Planners already have to produce for approved TPL-001-4. It is not a compilation of load flow studies but a textual summary of what was found in those studies including rationales and assumptions.

- R3.** Each Planning Coordinator and Transmission Planner shall provide its Planning Assessment to impacted Reliability Coordinators. [*Violation Risk Factor: Medium*] [*Time Horizon: Operations Planning*]
- M3.** Each Planning Coordinator and Transmission Planner shall provide evidence upon request showing that it provided its Planning Assessment to impacted Reliability Coordinators. Such 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.

**Rationale for Requirement R4:** The SDT has re-written Requirement R4 to show that the process starts with the Planning Assessments created by the Planning Coordinator and Transmission Planner and then those Planning Assessments are reviewed and reconciled as needed with the Reliability Coordinator. This is in response to comments in paragraph 90 of the FERC NOPR about directly involving the Reliability Coordinator in the planning process for periods beyond the present one year outreach. The re-write should not be construed as relieving the Reliability Coordinator of responsibilities in this area but simply as a reflection of how the process actually starts.

In the future, the SDT believes that such coordination should take place in the TPL standards and to support that position, the SDT has created an item in a draft SAR for TPL-001-4 that would revise Requirement R8 to make the Reliability Coordinator an explicit party in the review process described there.

In addition, the SDT will submit a request to the Functional Model Working Team to adjust the roles and responsibilities of the Reliability Coordinator to this new paradigm.

- R4.** Each Planning Coordinator and Transmission Planner shall jointly develop solutions with its respective Reliability Coordinator(s) for identified issues or conflicts with planned outages in its Planning Assessment for the Near-Term Transmission Planning Horizon. [*Violation Risk Factor: Medium*] [*Time Horizon: Long-term Planning*]
- M4.** Each Planning Coordinator, and Transmission Planner shall provide evidence upon request showing that it jointly developed solutions with its respective Reliability Coordinator(s) for identified issues or conflicts with planned outages in its Planning Assessment for the Near-term Transmission Planning Horizon. Such 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.

## C. Compliance

### 1. Compliance Monitoring Process

#### 1.1. Compliance Monitoring Process

As defined in the NERC Rules of Procedure, “Compliance Enforcement Authority” (CEA) means NERC or the Regional Entity in their respective roles of monitoring and enforcing compliance with the NERC Reliability Standards.

#### 1.2. Compliance Monitoring and Assessment Processes

As defined in the NERC Rules of Procedure, “Compliance Monitoring and Assessment Processes” 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.

#### 1.3. Data Retention

The following evidence retention periods 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 Compliance Enforcement Authority may ask an entity to provide other evidence to show that it was compliant for the full time period since the last audit.

Each responsible entity shall 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:

Each Reliability Coordinator shall retain its dated, current, in force, outage coordination process in accordance with Requirement R1 and Measurement M1 as well as any documents in force since the last compliance audit.

Each Transmission Operator and Balancing Authority shall retain evidence for three calendar years that it followed its Reliability Coordinator outage coordination process in accordance with Requirement R2 and Measurement M2.

Each Planning Coordinator and Transmission Planner shall retain evidence for three calendar years that it has its Planning Assessment to impacted Reliability Coordinators in accordance with Requirement R3 and Measurement M3.

Each Reliability Coordinator, Planning Coordinator, and Transmission Planner shall retain evidence for three calendar years that it has coordinated solutions within the Reliability Coordinator Area for identified issues or conflicts with planned outages in the Planning Assessment in accordance with Requirement R4 and Measurement M4.

If a responsible entity is found non-compliant, it shall keep information related to the non-compliance until mitigation is complete and approved or the time period specified above, whichever is longer.

The Compliance Enforcement Authority shall keep the last audit records and all requested and submitted subsequent audit records.

**1.4. Additional Compliance Information**

None.

Table of Compliance Elements

| R # | Time Horizon        | VRF    | Violation Severity Levels  |  |  |  |
|-----|---------------------|--------|--|--|--|--|
|     |                     |        | Lower VSL  | Moderate VSL   | High VSL   | Severe VSL   |
| R1  | Operations Planning | Medium | The Reliability Coordinator did develop, implement, and maintain an outage coordination process for generation and Transmission outages within its Reliability Coordinator Area but it was missing one of the parts specified in Requirement R1 (Parts 1.1 – 1.4). | The Reliability Coordinator did develop, implement, and maintain an outage coordination process for generation and Transmission outages within its Reliability Coordinator Area but it was missing two of the parts specified in Requirement R1 (Parts 1.1 – 1.4). | The Reliability Coordinator did develop, implement, and maintain an outage coordination process for generation and Transmission outages within its Reliability Coordinator Area but it was missing three of the parts specified in Requirement R1 (Parts 1.1 – 1.4). | The Reliability Coordinator did develop, implement, and maintain an outage coordination process for generation and Transmission outages within its Reliability Coordinator Area but it was missing all four of the parts specified in Requirement R1 (Parts 1.1 – 1.4).<br>OR,<br>The Reliability Coordinator did not develop, implement, and maintain an outage coordination process for generation and Transmission outages within its Reliability Coordinator Area. |
| R2  | Operations Planning | Medium | N/A  | N/A  | N/A  | The Transmission Operator or Balancing Authority did not perform the functions specified in its Reliability Coordinator outage coordination process.   |
| R3  | Operations Planning | Medium | N/A  | N/A  | N/A  | The Planning Coordinator or Transmission Planner did not provide its Planning Assessment to impacted Reliability Coordinators.   |

**Standard IRO-017-1 — Outage Coordination**

| R # | Time Horizon        | VRF    | Violation Severity Levels |              |          |   |
|-----|---------------------|--------|---------------------------|--------------|----------|---|
|     |                     |        | Lower VSL                 | Moderate VSL | High VSL | Severe VSL  |
| R4  | Operations Planning | Medium | N/A                       | N/A          | N/A      | The Planning Coordinator or Transmission Planner did not jointly develop solutions with its respective Reliability Coordinator(s) for identified issues or conflicts with planned outages in its Planning Assessment for the Near-term Transmission Planning Horizon. |

#### D. Regional Variances

None.

#### E. Interpretations

None.

#### F. Associated Documents

**Time Horizon:** The official definition of the Operations Planning Time Horizon is: “operating and resource plans from day-ahead up to and including seasonal.” The SDT equates ‘seasonal’ as being up to one year out and that these requirements covers the period from day-ahead to one year out.