

## A. Introduction

1. **Title:** Reliability Coordinator Operational Analyses and Real-time Assessments
2. **Number:** IRO-008-~~24~~
3. **Purpose:** To prevent instability, uncontrolled separation, or ~~Ce~~ascading ~~outages~~ that adversely impact~~s~~ the reliability of the ~~interconnection by ensuring that the~~ Bulk Electric System. ~~\_is assessed during the operations horizon.~~
4. **Applicability**
  - 4.1. Reliability Coordinator.
5. **Proposed Effective Date:**

~~In those jurisdictions where no regulatory approval is required, the standard shall become effective on the latter of either April 1, 2009 or the first day of the first calendar quarter, three months after BOT adoption.~~

~~In those jurisdictions where regulatory approval is required, the standard shall become effective on the latter of either April 1, 2009 or the first day of the first calendar quarter, three months after applicable regulatory approval.~~

## B. Requirements

- R1.** Each Reliability Coordinator shall perform an Operational Planning Analysis to assess whether the planned operations for the next day within its Wide Area, will exceed any of its Interconnection Reliability Operating Limits (IROLs) during anticipated normal and Contingency event conditions. ~~[Violation Risk Factor: Medium]~~ ~~[Time Horizon: Operations Planning]~~
- R2.** Each Reliability Coordinator shall perform a Real-~~Time~~ ~~time~~ Assessment at least once every 30 minutes to determine if its Wide Area is exceeding any IROLs or is expected to exceed any IROLs. ~~[Violation Risk Factor: High]~~ ~~[Time Horizon: Real-time Operations]~~
- R3.** When a Reliability Coordinator determines that the results of an Operational Planning Analysis or Real-~~Time~~ Assessment indicates the need for specific operational actions to prevent or mitigate an ~~instance of exceeding an~~ IROL ~~exceedance~~, the Reliability Coordinator shall share its results with those entities that are expected to take those actions. ~~[Violation Risk Factor: MediumHigh]~~ ~~[Time Horizon: Real-time Operations, Operations Planning or Same Day Operations]~~
- R3.R4.** Each Reliability Coordinator shall notify all impacted entities when an instance of an IROL exceedance, as identified in Requirement R3, has been prevented or mitigated. [Violation Risk Factor: Medium] [Time Horizon: Real-time Operations, Operations Planning or Same Day Operations]

## C. Measures

- M1.** The Reliability Coordinator shall have, and make available upon request, the results of its Operational Planning Analyses. (R1)

**M2.** The Reliability Coordinator shall have, and make available upon request, evidence to show it conducted a Real-time Assessment at least once every 30 minutes. This evidence could include, but is not limited to, dated computer log showing times the assessment was conducted, dated checklists, or other evidence. (R2)

**M3.** The Reliability Coordinator shall have and make available- upon request, evidence to ~~demonstrate~~~~confirm~~ that it shared the results of its Operational Planning Analyses or Real-time Assessments with those entities expected to take actions based on that information. This evidence could include, but is not limited to, dated operator logs, dated voice recordings, dated transcripts of voice records, dated facsimiles, or other evidence. (R3)

**M4.** The Reliability Coordinator shall have and make available upon request, evidence to demonstrate that it notified all impacted entities when an instance of an IROL exceedance, as identified in Requirement R3, has been prevented or mitigated. This evidence could include, but is not limited to, dated operator logs, dated voice recordings, dated transcripts of voice records, dated facsimiles, or other evidence. (R4)

## D. Compliance

### 1. Compliance Monitoring Process

#### 1.1. Compliance Enforcement Authority

Regional Entity

#### 1.2. Evidence Retention

The Reliability Coordinator 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. 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.

a. The Reliability Coordinator shall maintain evidence to show compliance with R1, R2, R3, and R4 for the most recent three calendar months plus the current month.

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

#### 1.3. Compliance Monitoring and Assessment Processes:

Compliance Audits

Self-Certifications

Spot Checking

Compliance Violation Investigations

Self-Reporting

Complaints Text

**1.4. Additional Compliance Information**

None

**~~1. Compliance Monitoring Process~~**

**~~1.1. Compliance Enforcement Authority~~**

~~For Reliability Coordinators that work for the Regional Entity, the ERO shall serve as the Compliance Enforcement Authority.~~

~~For Reliability Coordinators that do not work for the Regional Entity, the Regional Entity shall serve as the Compliance Enforcement Authority.~~

**~~1.2. Compliance Monitoring Period and Reset Time Frame~~**

~~Not applicable.~~

**~~1.3. Compliance Monitoring and Enforcement Processes~~**

~~Compliance Audits~~

~~Self-Certifications~~

~~Spot Checking~~

~~Compliance Violation Investigations~~

~~Self-Reporting~~

~~Complaints~~

**~~1.4. Data Retention~~**

~~The Reliability Coordinator 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:~~

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

~~The Reliability Coordinator shall retain evidence for Requirement R1, Measure M1 and Requirement R2, Measure M2 for a rolling 30 days. The Reliability Coordinator shall keep evidence for Requirement R3, Measure M3 for a rolling three months.~~

**~~1.5. Additional Compliance Information~~**

~~None.~~

**2. Violation Severity Levels**

Requirement	Lower	Moderate	High	Severe
<b>R1</b>	Performed an Operational Planning Analysis that covers all aspects of the requirement for all except one of 30 days. (R1)	Performed an Operational Planning Analysis that covers all aspects of the requirement for all except two of 30 days. (R1)	Performed an Operational Planning Analysis that covers all aspects of the requirement for all except three of 30 days. (R1)	Missed performing an Operational Planning Analysis that covers all aspects of the requirement for four or more of 30 days. (R1)
<b>R2</b>	For any sample 24 hour period within the 30 day retention period, a Real-time Assessment was not conducted for one 30-minute period. within that 24-hour period (R2)	For any sample 24 hour period within the 30 day retention period, Real-time Assessments were not conducted for two 30-minute periods within that 24-hour period (R2)	For any sample 24 hour period within the 30 day retention period, Real-time Assessments were not conducted for three 30-minute periods within that 24-hour period (R2)	For any sample 24 hour period within the 30 day retention period, Real-time Assessments were not conducted for more than three 30-minute periods within that 24-hour period (R2)
<b>R3</b>		Shared the results with some but not all of the entities that were required to take action (R3)		Did not share the results of its analyses or assessments with any of the entities that were required to take action (R3).
<b><u>R4</u></b>		<u>Shared the results with some but not all of the entities that were required to take action (R4)</u>		<u>Did not share the results of its analyses or assessments with any of the entities that were required to take action (R4).</u>

**E. Regional Variances**

None

**F. Associated Documents**

None

**Version History**

<b>Version</b>	<b>Date</b>	<b>Action</b>	<b>Change Tracking</b>
1	October 17, 2008	Adopted by NERC Board of Trustees	
1	March 17, 2011	Order issued by FERC approving IRO-008-1 (approval effective 5/23/11)	