

Standard Development Roadmap

Development Steps Completed:

1. Reliability Authority Certification SAR Requested — October 7, 2002.
2. Reliability Authority Certification SAR Authorized to Post — November 20, 2002.
3. SAR Drafting Team appointed — January 6, 2003.
4. Reliability Authority Certification SAR ~~1st-first~~ posting — December 1, 2002 to January 10, 2003.
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9. Reliability Coordinator Certification standard first posting — June 1, 2005 to July 8, 2005.
10. [Reliability Coordinator Certification standard second posting — September 1, 2005 to October 15, 2005.](#)

Description of Current Draft:

This is the ~~thirdsecond~~ posting of the Reliability Coordinator Certification standards. These standards have been drafted based on the SARs and applicable comments received during the ~~fourthree~~ postings of the Balancing Authority Certification Standard, applicable comments received during the ~~threetwo~~ postings of the Transmission Operator Certification standard, and the ~~twofirst~~ postings of the Reliability Coordinator Certification standard.

Future Development Plan:

| Anticipated Actions | Anticipated Date |
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| 1. The drafting team will consider and respond to comments received during the current posting and revise the draft standard as needed. | July-December 2005 |
| 2. Post this standard for a fourth time. It may be necessary to post this standard for a second time if changes are made after receiving the comments from this first posting. | January 2006 August 2005 |
| 3. Field test standards. Ballot standards. | March—July 2006 October 2005 |
| 4. Ballot standards. BOT adoption. | August 2006 February 6, 2006 |
| 5. BOT Board adoption. — 5. — Proposed effective date. | November 2006 April 1, 2006 |

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| 6. Proposed effective date. | December 2006 |
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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.

Agreement: A contract or other document delineating an arrangement that expresses assent by two or more parties to the same object. This arrangement determines a course of action to be followed by all parties involved in the situation. The key components of the agreement must identify the ability, intent, and authority of the parties. The requirement for an agreement can be satisfied in a variety of ways, including but not limited to: contracts, designation of authority documents, policies, and procedures.

[Above definition is proposed to replace the existing definition of Agreement in the Reliability Standards Glossary of Terms.]

~~**Balancing Integrated Operational Plan (BIOP):** A plan formulated by the Balancing Authority incorporating the intended operation of resources, interchange, and demand expectations to satisfy balancing requirements. The plan is provided to the Reliability Coordinator for performing reliability analysis.~~

A. Introduction

1. **Title:** Reliability Coordinator Certification — Certification
2. **Number:** ORG-020-1
3. **Purpose:** To ensure that each entity that performs the Reliability ~~Coordination~~ Coordinator function is certified as a NERC Reliability Coordinator by the NERC Regional Reliability Organization using the NERC [Organization Registration and Certification Manual](#) ~~Process for Reliability Coordinators~~.
4. **Applicability**
 - 4.1. Entity seeking certification as a Reliability Coordinator.
 - 4.2. Regional Reliability Organization.
5. ~~(Proposed)~~ **Effective Date:** ~~April~~ [December](#) 1, 2006

B. Requirements

- R1. The entity that intends to perform the Reliability ~~Coordination~~ Coordinator function shall obtain certification as a NERC Reliability Coordinator by satisfying all of the requirements identified in the NERC Reliability Coordinator Certification Standards:
 - Reliability Coordinator Certification — Certification
 - Reliability Coordinator Certification — Agreements
 - Reliability Coordinator Certification — Personnel
 - Reliability Coordinator Certification — Data Acquisition and Monitoring
 - Reliability Coordinator Certification — System Analysis
 - Reliability Coordinator Certification — Emergency Operations
 - Reliability Coordinator Certification — Loss of Control Center Functionality
 - Reliability Coordinator Certification — Restoration
- R2. The entity seeking certification as a Reliability Coordinator shall apply for certification in accordance with and adhere to the administrative requirements of the NERC [Organization Registration and Certification Manual](#) ~~Process for Reliability Coordinators~~.
- R3. A Reliability Coordinator may delegate tasks, but shall retain responsibility for all tasks. Each entity seeking certification as a Reliability Coordinator shall identify any task for which it is responsible that will be performed by another entity and shall ensure that the entity has the capability to perform the tasks. The entity, to which a task is delegated, shall be subject to review as part of the NERC [Organization Registration and Certification Manual](#) ~~Process for Reliability Coordinators~~.
- R4. The Reliability Coordinator shall have procedures, processes, and tools for adhering to NERC reliability standards ~~related to Cyber Security~~ [including reporting requirements](#).
- R5. The NERC Regional Reliability Organizations' awarding of certification to the Reliability Coordinator shall be based on satisfying all of the requirements defined in the NERC Reliability Coordinator Certification Standards identified in Requirement R1.
- R6. The NERC Regional Reliability Organizations shall administer the certification process using the NERC [Organization Registration and Certification Manual](#) ~~Process for Reliability Coordinators~~.

C. Measures

- M1. The Reliability Coordinator shall meet Requirement R1.
- M2. The Reliability Coordinator shall have ~~available for inspection~~, documentation to meet Requirements R2 through R4 available for inspection.
- M3. The Regional Reliability Organization shall have ~~available for inspection~~, documentation to meet Requirements R5 and R6 available for inspection.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

- 1.1.1 Regional Reliability Organization for Requirements R1 through R4.
- 1.1.2 NERC for Requirements R5 through R6.

1.2. Compliance Monitoring Period and Reset Time ~~ff~~frame

None

1.3. Data Retention

Regional Reliability Organization — None.

1.4. NERC — Regional Reliability Organization letter of certification approval.

1.5. Additional Compliance Information

None.

2. Levels of Non-Compliance

- 2.1. Level 1: Not Applicable.
- 2.2. Level 2: Not Applicable.
- 2.3. Level 3: Not Applicable.
- 2.4. Level 4: Not Applicable.

E. Regional Differences

None identified.

Version History

| Version | Date | Action | Change Tracking |
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Agreement: A contract or other document delineating an arrangement that expresses assent by two or more parties to the same object. This arrangement determines a course of action to be followed by all parties involved in the situation. The key components of the agreement must identify the ability, intent, and authority of the parties. The requirement for an agreement can be satisfied in a variety of ways, including but not limited to: contracts, designation of authority documents, policies, and procedures.

[Above definition is proposed to replace the existing definition of Agreement in the Reliability Standards Glossary of Terms.]

~~**Balancing Integrated Operational Plan (BIOP):** A plan formulated by the Balancing Authority incorporating the intended operation of resources, interchange, and demand expectations to satisfy balancing requirements. The plan is provided to the Reliability Coordinator for performing reliability analysis.~~

A. Introduction

1. **Title:** Reliability Coordinator Certification — Agreements—
2. **Number:** ORG-021-1
3. **Purpose:** To ensure that the entity seeking certification as a Reliability Coordinator has agreements in place that define its responsibilities, authority, and interaction with entities that are necessary to perform its Operating Reliability function.
4. **Applicability**
 - 4.1. Entities seeking certification as a Reliability Coordinator.
5. ~~(Proposed)~~ **Effective Date:** ~~April~~December 1, 2006

B. Requirements

- R1. The Reliability Coordinator shall have an executed copy of the NERC Confidentiality Agreement to which the Reliability Coordinator is bound.
 - R1.1. The Reliability Coordinator shall confirm that all its personnel who have access to information that is deemed confidential in conjunction with the NERC Confidentiality Agreement have been trained on their responsibilities under the agreement as identified in TOP-005.
 - R1.2. An entity to whom a Reliability Coordinator has delegated tasks shall confirm that its personnel who have access to information that is deemed confidential in conjunction with the NERC Confidentiality Agreement have been trained on their responsibilities under the agreement as identified in TOP-005.
 - ~~R1.2.~~
- R2. The Reliability Coordinator shall have an executed copy of the NERC Standards of Conduct applicable to the Reliability Coordinator.
 - R2.1. The Reliability Coordinator shall confirm that all its personnel subject to the NERC Standards of Conduct have been trained on their responsibilities.
 - R2.2. An entity to whom a Reliability Coordinator has delegated tasks shall confirm that all its personnel subject to the NERC Standards of Conduct have been trained on their responsibilities.
- R3. The Reliability Coordinator shall have agreements that define the responsibilities and authority of that Reliability Coordinator with respect to its Generator Operators, Planning Authorities, Transmission Operators, Transmission Owners, Transmission Service Providers, Balancing Authorities, Transmission Planners, and other Reliability Coordinators. The entities identified below are the typical information sources; however, the information identified can be obtained from alternate sources and must be identified in the appropriate agreements. The agreements for the acquisition of this information for the defined Reliability Coordinator Area must that addresses:
 - R3.1. The Reliability Coordinator's commitment to provide reliability analyses to the Transmission Operators, Balancing Authorities, and Transmission Service Providers in its Reliability Coordinator area and other Reliability Coordinators as identified in IRO-001 and IRO-004.
 - R3.2. The Balancing Authorities within the Reliability Coordinator Area commitment to:

- R3.2.1.** Identify the Balancing Authority’s area metered boundaries [as identified in BAL-005](#).
- R3.2.2.** [Provide information required for system studies as identified in IRO-004](#)~~Provide the Balancing Integrated Operational Plans~~.
- R3.2.3.** Provide balancing information for real-time monitoring [as identified in TOP-005](#).
- R3.2.4.** Provide real-time operational information [as identified in TOP-005](#).
- R3.2.5.** Comply with Reliability Coordinator directives under both normal and emergency conditions [as identified in IRO-001](#).
- R3.2.6.** Provide notice of Interchange Schedule interruptions [as identified in INT-002](#).
- R3.2.7.** Provide notice of the implementation of the Balancing Authorities’ own emergency procedures [as identified in EOP-002](#).
- R3.3.** The Transmission Operators within the Reliability Coordinator Area commitment to:
 - R3.3.1.** Provide facility and operational data [as identified in TOP-005](#).
 - R3.3.2.** Provide real-time operational data [as identified in TOP-005](#).
 - R3.3.3.** Provide outage [information](#)s related to transmission maintenance and construction plans [as identified in TOP-003](#).
 - R3.3.4.** Comply with Reliability Coordinator directives under both normal and emergency conditions [as identified in IRO-001](#).
 - R3.3.5.** Provide notification of the implementation of the Transmission Operators’ own emergency procedures [as identified in TOP-001](#).
 - R3.3.6.** [Provide system protection and control information, including special protection systems as identified in TOP-005](#).
- R3.4.** The Transmission Service Providers within the Reliability Coordinator Area commitment to:
 - R3.4.1.** Coordinate Available Transmission Capacity (ATC) with the Reliability Coordinator [as identified in IRO-005](#).
 - R3.4.2.** Enforce transmission system limitations as directed by Reliability Coordinator [as identified in IRO-005](#).
- R3.5.** The Generator Operators within the Reliability Coordinator Area commitment to provide facility and operational data to the Reliability Coordinator for modeling [as identified in MOD-010 and MOD-012](#).
- R3.6.** The Transmission Planners within the Reliability Coordinator Area commitment to provide transmission system limitations, transmission adequacy plans, and determination of Total Transmission Capability values [as identified in MOD-010 and MOD-012](#).
- R3.7.** The Planning Authorities within the Reliability Coordinator Area commitment to [coordinate with the Reliability Coordinator on transmission system limitations and reliability issues.](#)

~~R3.7.1. Provide system protection and control information, including special protection systems.~~

~~R3.7.2. Coordinate with the Reliability Coordinator on transmission system limitations and reliability issues.~~

~~R3.8. The Transmission Owners within the Reliability Coordinator Area commitment to provide facility ratings and outages related to construction plans.~~

~~R3.9.R3.8.~~ The other Reliability Coordinators commitment to:

~~R3.9.1.R3.8.1.~~ Provide reliability analysis information as identified in IRO-001, IRO-003, and IRO-005.

~~R3.9.2.R3.8.2.~~ Coordinate reliability processes and actions as identified in IRO-001, IRO-003, and IRO-005.

C. Measures

- M1. The Reliability Coordinator shall have available for inspection documentation to meet Requirements R1 and R2.
- M2. The Reliability Coordinator shall have available for inspection agreement(s) that meet Requirement R3.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization.

1.2. Compliance Monitoring Period and Reset ~~Timeframe~~Time Fame

None.

1.3. Data Retention

None.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

2.1. Level 1: Not Applicable.

2.2. Level 2: Not Applicable.

2.3. Level 3: Not Applicable.

2.4. Level 4: Not Applicable

E. Regional Differences

None identified.

Version History

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A. Introduction

1. **Title:** Reliability Coordinator Certification — Personnel
2. **Number:** ORG-022-1
3. **Purpose:** To ensure that the entity seeking certification as a Reliability Coordinator has operating personnel that have been trained and are NERC certified to perform Reliability Coordinator real-time responsibilities.
4. **Applicability**
 - 4.1. Entities seeking certification as a Reliability Coordinator.
5. ~~(Proposed)~~ **Effective Date:** ~~April~~December 1, 2006

B. Requirements

- R1. ~~The Reliability Coordinator shall provide their operating personnel with the responsibility and authority as defined in IRO-001.~~
- R2. The Reliability Coordinator shall have NERC-certified personnel as identified in PER-003.
- R3. ~~The Reliability Coordinator may delegate real-time tasks provided the personnel performing these tasks are also certified. to perform any of the real-time Reliability Coordinator responsibilities 24 hours a day, seven days a week. Personnel shall have a current certification credential applicable to the Reliability Coordinator function. If any of these real-time tasks are delegated, the personnel performing these tasks shall also be certified.~~
- R1.1.R3.1. Tasks considered real-time ~~Reliability Coordinator responsibilities~~ include:
 - Monitors real-time operational information from Balancing Authorities and Transmission Operators.
 - Issues reliability alerts to Generator Operators, Load-Serving Entities, Transmission Operators, Transmission Service Providers, Balancing Authorities, Regional Councils, and NERC.
 - Issues corrective actions (e.g., curtailments or load shedding) to Transmission Operators, Transmission Service Providers, and Balancing Authorities.
 - Coordinates reliability processes and actions with and among other Reliability Coordinators.
 - Coordinates with Transmission Operators and Transmission Service Providers on real-time transmission system limitations.
 - Monitors Interconnection Reliability Operating Limits.
 -
- R4. ~~The Reliability Coordinator shall have a training program and provide its operating personnel with training to meet the requirements of PER-004.~~
- R5. ~~Entities to whom tasks are delegated shall have a training program and provide its operating personnel with training to meet the requirements of PER-004.~~
- ~~R2.~~ ~~The Reliability Coordinator shall have a training program and provide its operating personnel with training that addresses all of the procedures, processes, and tools associated with performing the Reliability Coordinator responsibilities identified in Requirement R1.~~

~~R2.1. The Reliability Coordinator shall have a training program that addresses the knowledge and competencies required for reliable system operations.~~

~~R2.2. The Reliability Coordinator shall have training records identifying when the training occurred, who attended the training, and the material that was covered.~~

C. Measures

M1. The Reliability Coordinator shall have available for inspection, documentation identifying the elements to satisfy Requirement R1.

~~M1.M2.~~ The Reliability Coordinator shall have available for inspection, record of all certification for personnel identified in Requirements R2 and R3 (if applicable)~~R1~~.

M2.M3. The Reliability Coordinator shall have available for inspection, documentation of its training programs and records of training activities for personnel identified in Requirements R4 and R5 (if applicable).

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization.

1.2. Compliance Monitoring Period and Reset Time ~~f~~frame

None.

1.3. Data Retention

None.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

2.1. Level 1: Not Applicable.

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A. Introduction

1. **Title:** Reliability Coordinator Certification — Data Acquisition and Monitoring
2. **Number:** ORG-023-1
3. **Purpose:** To ensure that each entity seeking certification as a Reliability Coordinator has real-time transmission, generation, and protection and control data in order to adequately monitor its Reliability Coordinator Area.
4. **Applicability**
 - 4.1. Entity seeking certification as a Reliability Coordinator.
5. ~~(Proposed)~~ **Effective Date:** ~~April~~ December 1, 2006

B. Requirements

- R1. The Reliability Coordinator shall have and publish its data ~~acquisition~~ reporting requirements for its Reliability Coordinator Area that include: periodicity of transmittal, format of submission, and time frame.
- R2. The Reliability Coordinator shall have procedures, processes, ~~or~~ and tools for acquiring or developing data to perform operational reliability assessments as identified in IRO-002 utilizing the data identified in IRO-005 that includes:
 - R2.1. Generation facility data
 - R2.2. Generator real-time operational data
 - R2.3. Generator outages related to maintenance plans
 - R2.4. Transmission facility data
 - R2.5. Transmission real-time operational data
 - R2.6. Transmission outages related to maintenance and construction plans
 - R2.7. System protection and control information, including special protection schemes
 - R2.8. Area Control Error
 - R2.9. Frequency
 - R2.10. MW and MVAR reserves
 - R2.11. Instantaneous demand
 - R2.12. Scheduled and actual interchange Schedules
- R3. The Reliability Coordinator shall have procedures, processes, or tools for acquiring the information required for system studies ~~Balancing Integrated Operational Plan~~ and ~~plan~~ updates from appropriate entities as identified in its Balancing Authority(ies) in IRO-004.
- R4. The Reliability Coordinator shall have processes, procedures, ~~or~~ and tools for acquiring reliability analysis information from other Reliability Coordinator(s) as identified in IRO-004.
- R5. The Reliability Coordinator shall have processes, procedures, ~~or~~ and tools for acquiring transmission system limitations and ~~transmission~~ operational adequacy plans, ~~and~~ determination of Total Transmission Capability values in its Reliability Coordinator Area as identified in IRO-004.

- R6.** The Reliability Coordinator shall have procedures, processes, and tools for monitoring each Transmission Operator within its Reliability Coordinator Area [as identified in IRO-005](#) that includes:
- R6.1.** Transmission facility data
 - R6.2.** Transmission real-time operational data
 - R6.3.** System protection and control information, including special protection schemes
- R7.** The Reliability Coordinator shall have procedures, processes, and tools for monitoring each Balancing Authority within its Reliability Coordinator Area [as identified in IRO-005](#) that includes:
- R7.1.** Area Control Error
 - R7.2.** Frequency
 - R7.3.** MW and MVAR reserves
 - R7.4.** Instantaneous demand
 - R7.5.** [Scheduled and actual interchange](#)
 - R7.6.** Generator real-time operational data
- R8.** The Reliability Coordinator shall have procedures, processes, and tools for monitoring other Reliability Coordinators [as identified in IRO-003](#) that includes:
- R8.1.** Relevant real-time operating parameters of facilities to operate within Interconnection Reliability Operating Limits
 - R8.2.** Reliability analysis information

C. Measures

- M1.** The Reliability Coordinator shall have available for inspection its established data reporting requirements identified in Requirement R1.
- M2.** The Reliability Coordinator shall demonstrate that it can follow its procedures, processes, or use its tools to collect the data or information identified in Requirements R2 through R5.
- M3.** The Reliability Coordinator shall demonstrate that it can monitor the elements identified in Requirements R6 through R8.

D. Compliance

- 1. Compliance Monitoring Process**
- 1.1. Compliance Monitoring Responsibility**
Regional Reliability Organization.
 - 1.2. Compliance Monitoring Period and Reset Time Frame**
None.
 - 1.3. Data Retention**
None.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

2.1. Level 1: Not Applicable.

2.2. Level 2: Not Applicable.

2.3. Level 3: Not Applicable.

2.4. Level 4: Not Applicable.

E. Regional Differences

None identified.

Version History

| Version | Date | Action | Change Tracking |
|---------|------|--------|-----------------|
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Standard Development Roadmap

Development Steps Completed:

1. Reliability Authority Certification SAR Requested — October 7, 2002.
2. Reliability Authority Certification SAR Authorized to Post — November 20, 2002.
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10. [Reliability Coordinator Certification standard second posting — September 1, 2005 to October 15, 2005.](#)

Description of Current Draft:

[This is the third posting of the Reliability Coordinator Certification standards. These standards have been drafted based on the SARs and applicable comments received during the four postings of the Balancing Authority Certification standard, applicable comments received during the three postings of the Transmission Operator Certification standard, and the two postings of the Reliability Coordinator Certification standard.](#)
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Future Development Plan:

| Anticipated Actions | Anticipated Date |
|---|---|
| 1. The drafting team will consider and respond to comments received during the current posting and revise the draft standard as needed. | July-December 2005 |
| 2. Post this standard for a fourth time. It may be necessary to post this standard for a second time if changes are made after receiving the comments from this first posting. | January 2006August 2005 |
| 3. Field test standards. Ballot Standards. | March—July 2006October 2005 |
| 4. Ballot standards. BOT Adoption. | August 2006February 6, |

| | |
|---|---|
| | <u>2006</u> |
| <u>5. BOTBoard adoption.</u> — 5. Proposed effective date. | <u>November</u> 2006 <u>April 1, 2006</u> |
| <u>6. Proposed effective date.</u> | <u>December 2006</u> |
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Definitions of Terms Used in Standard

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Agreement: A contract or other document delineating an arrangement that expresses assent by two or more parties to the same object. This arrangement determines a course of action to be followed by all parties involved in the situation. The key components of the agreement must identify the ability, intent, and authority of the parties. The requirement for an agreement can be satisfied in a variety of ways, including but not limited to: contracts, designation of authority documents, policies, and procedures.

[Above definition is proposed to replace the existing definition of Agreement in the Reliability Standards Glossary of Terms.]

~~**Balancing Integrated Operational Plan (BIOP):** A plan formulated by the Balancing Authority incorporating the intended operation of resources, interchange, and demand expectations to satisfy balancing requirements. The plan is provided to the Reliability Coordinator for performing reliability analysis.~~

A. Introduction

1. **Title:** Reliability Coordinator Certification — System Analysis
2. **Number:** ORG-024-1
3. **Purpose:** To ensure that the entity seeking certification as a Reliability Coordinator has the ability to perform system analyses, develop contingency plans, and direct and coordinate actions to maintain reliable operation within its Reliability Coordinator Area and the Interconnection.
4. **Applicability**
 - 4.1. Entity seeking certification as a Reliability Coordinator
5. ~~(Proposed)~~ **Effective Date:** ~~April~~ December 1, 2006

B. Requirements

- R1. The Reliability Coordinator shall have processes, procedures and tool(s) to develop Interconnection Reliability Operating Limits (IROLs) as identified in IRO-004.
- R2. The Reliability Coordinator shall have processes, procedures and tool(s) to perform real-time reliability analysis and alert operating personnel to limit violations as identified in IRO-002 and IRO-005.
- R3. The Reliability Coordinator shall perform contingency analyses, develop contingency plans, and coordinate these plans with its Transmission Operators, Balancing Authorities, and other Reliability Coordinators as identified in IRO-004 and IRO-005.
 - R3.1. The Reliability Coordinator shall have processes, procedures and tool(s) to perform contingency reliability analysis with the following periodicity:
 - R3.1.1. Day-ahead based on projected system conditions.
 - R3.1.2. On demand based on current or anticipated system conditions.
- R4. The Reliability Coordinator shall have processes, procedures, ~~and-or~~ tool(s) to analyze, coordinate and direct actions with its Transmission Operators, Balancing Authorities, and other Reliability Coordinators as identified in IRO-001.
- R5. The Reliability Coordinator shall have processes, procedures, ~~and-or~~ tool(s) to analyze and coordinate transmission outages within its Reliability Coordinator Area as identified in IRO-005.
- R6. The Reliability Coordinator shall have processes, procedures, ~~and-or~~ tool(s) to analyze and coordinate generation outages within its Reliability Coordinator Area as identified in IRO-005.
- ~~R7. The Reliability Coordinator shall have processes, procedures and tool(s) to analyze and coordinate the Balancing Integrated Operational Plan(s) within its Reliability Coordinator Area.~~

C. Measures

- M1. The Reliability Coordinator shall have available for inspection its procedures and processes, and demonstrate its tools to meet Requirements R1 through ~~R3~~ R7.

M2. The Reliability Coordinator shall have available for inspection its procedures and processes, or demonstrate its tools to meet Requirements R4 through R6.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization.

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

None.

1.3. Data Retention

None.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

2.1. Level 1: Not Applicable.

2.2. Level 2: Not Applicable.

2.3. Level 3: Not Applicable.

2.4. Level 4: Not Applicable.

E. Regional Differences

None identified.

Version History

| Version | Date | Action | Change Tracking |
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Standard Development Roadmap

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9. Reliability Coordinator Certification standard first posting — June 1, 2005 to July 8, 2005.
10. [Reliability Coordinator Certification standard second posting — September 1, 2005 to October 15, 2005.](#)

Description of Current Draft:

[This is the third posting of the Reliability Coordinator Certification standards. These standards have been drafted based on the SARs and applicable comments received during the four postings of the Balancing Authority Certification standard, applicable comments received during the three postings of the Transmission Operator Certification standard, and the two postings of the Reliability Coordinator Certification standard.](#)

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Future Development Plan:

| Anticipated Actions | Anticipated Date |
|---|---|
| 1. The drafting team will consider and respond to comments received during the current posting and revise the draft standard as needed. | July-December 2005 |
| 2. Post this standard for a fourth time. It may be necessary to post this standard for a second time if changes are made after receiving the comments from this first posting. | January 2006 August 2005 |

| | |
|---|--|
| 3. <u>Field test standards.</u> Ballot standards. | <u>March—July 2006</u> October 2005 |
| 4. <u>Ballot standards.</u> BOT adoption. | <u>August 2006</u> February 6, 2006 |
| 5. <u>BOT</u> Board adoption. — 5. — Proposed effective date. | <u>November 2006</u> April 1, 2006 |
| 6. <u>Proposed effective date.</u> | <u>December 2006</u> |
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Definitions of Terms Used in Standard

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A. Introduction

1. **Title:** Reliability Coordinator Certification — Emergency Operations
2. **Number:** ORG-025-1
3. **Purpose:** To ensure that the entity seeking certification as a Reliability Coordinator has the capability for continued operations during Bulk Electric System emergency conditions.
4. **Applicability:**
 - 4.1. Entity seeking certification as a Reliability Coordinator.
5. ~~(Proposed)~~ **Effective Date:** ~~April~~ December 1, 2006

B. Requirements

R1. The Reliability Coordinator shall have procedures or processes that define its responsibilities and authority for responding to a Bulk Electric System emergency as identified in IRO-001.

~~R1.R2.~~ The Reliability Coordinator shall have procedures or processes that define its responsibilities, authority, and actions for responding, communicating status, and coordinating operations during a Bulk Electric System emergency that address when:

R1.1. Balancing Authorities within the Reliability Coordinator Area are unable to meet their resource or load requirements as identified in EOP-002.

R1.2. Transmission Operators within the Reliability Coordinator Area are unable to meet their:

R1.2.1. Voltage and reactive requirements as identified in IRO-001 and IRO-005.

R1.2.2. System Operating Limits as identified in IRO-001 and IRO-005.

~~R2.R3.~~ The Reliability Coordinator shall have procedures or processes that define its responsibilities, authority, and actions for responding, communicating status, and coordinating operations during a Bulk Electric System emergency that address when the Reliability Coordinator:

~~R2.1.R3.1.~~ Is required to issue directives for corrective actions, notifications, and coordination as identified in IRO-001, IRO-003, and IRO-005.

~~R2.1.1.~~ Notify and coordinate with other Reliability Coordinators.

~~R2.2.R3.2.~~ Is requested by another Reliability Coordinator to take actions to maintain the reliability of the Interconnection as identified in IRO-001, IRO-003, and IRO-005.

~~R2.3.R3.3.~~ Is required to take action to mitigate an Interconnection Reliability Operating Limits (IROL) violation as identified in IRO-001, IRO-002, IRO-003, IRO-005, and IRO-006.

~~R2.4.R3.4.~~ Has experienced a partial or complete bulk-Bulk electric-Electric system System shutdown in its Reliability Coordinator Area as identified in EOP-006.

~~R2.5.R3.5.~~ Has experienced or is informed of an actual or suspected act of sabotage that affects a physical or cyber asset within its Reliability Coordinator Area as identified in CIP-001.

C. Measures

M1. The Reliability Coordinator shall have available for inspection its procedures or processes as identified in Requirements R1 through and R32.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization.

1.2. Compliance Monitoring Period and Reset Time ffframe

None.

1.3. Data Retention

None.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

2.1. Level 1: Not Applicable.

2.2. Level 2: Not Applicable.

2.3. Level 3: Not Applicable.

2.4. Level 4: Not Applicable.

E. Regional Differences

None identified.

Version History

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|---------|------|--------|-----------------|
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| Anticipated Actions | Anticipated Date |
|--|---|
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| 2. Post this standard for a fourth time. It may be necessary to post this standard for a second time if changes are made after receiving the comments from this first posting. Post this standard for a fourth time. | January January 2006 August 2005 |
| 3. Field test standards. Ballot standards. Field test standards. | March—July March—July 2006 October 2005 |

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|---|--|
| 4. <u>Ballot standards.</u> BOT adoption. | <u>August 2006</u> February 6, 2006 |
| 5. <u>BOT</u> Board adoption. — 5. Proposed effective date. | <u>November 2006</u> April 1, 2006 |
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A. Introduction

1. **Title:** Reliability Coordinator Certification — Loss of Control Center Functionality
2. **Number:** ORG-026-1
3. **Purpose:** To ensure that the entity seeking certification as a Reliability Coordinator has the capability for continued operations during loss of its control center functionality.
4. **Applicability:**
 - 4.1. Entity seeking certification as a Reliability Coordinator.
5. ~~(Proposed)~~ **Effective Date:** ~~April~~December 1, 2006

B. Requirements

~~R1.1.~~The Reliability Coordinator shall have procedures, processes, tools, or facilities to continue to operate in accordance with the requirements applicable to the Reliability Coordinator in EOP-008, its Reliability Coordinator Area under the single occurrence for each of the following conditions:

~~R1.2.~~Evacuation of control center building

~~R1.3.~~Loss of communications¹

~~R1.4.~~Loss of Monitoring and Assessment Systems functionality²

~~R1.5.~~Loss of critical data acquisition system data

~~R1.6.~~Loss of control center support functions, i.e. air conditioning, power, water

~~R1.7.~~The Reliability Coordinator shall have procedures, processes, or tools to operate during the conditions identified in requirement R1 that addresses:

~~R1.8.~~Acquiring and monitoring real-time operational data for its Reliability Coordinator Area.

~~R1.9.~~Acquiring the Balancing Integrated Operational Plan and plan updates from the Balancing Authorities within its Reliability Coordinator Area.

~~R1.10.~~Acquiring outages related to maintenance and construction plans and equipment ratings from the Transmission Operators within its Reliability Coordinator Area.

~~R1.11.~~Acquiring system protection and control information, including special protection systems.

~~R1.12.~~Acquiring reliability analysis information from other Reliability Coordinators.

~~R1.13.~~Acquiring transmission system limitations, transmission adequacy plans, and determination of Total Transmission Capability values within its Reliability Coordinator Area.

~~R1.14.~~Acquiring facility ratings and operational data from the Transmission Owners within its Reliability Coordinator Area.

¹ Loss of communications is meant to include all communications other than that associated with SCADA data (internet, administrative and operational voice, etc.)

² Loss of monitoring and assessment systems functionality is meant to include any method that entities² utilize in monitoring, controlling, and assessing their area of responsibility.

~~R1.15. Monitoring the relevant real-time operating parameters of other Reliability Coordinator's facilities to operate within its IROs.~~

~~R1.16. Performing real-time reliability analysis including contingency analysis.~~

~~R1.17. Analyzing and coordinating transmission and generator outages from a reliability perspective.~~

~~R1.18. Analyzing and coordinating the Balancing Integrated Operational Plans submitted by the Balancing Authorities within its Reliability Coordinator Area from a reliability perspective.~~

~~R1.19. Coordinating day-ahead analyses with other Reliability Coordinators.~~

~~R1.20. Implementing real-time actions with other Reliability Coordinators.~~

~~R1.21. Developing Interconnection Reliability Operating Limits (IROs).~~

~~R1.22. Calculating, reporting, and archiving data necessary to support Reliability Coordinator reporting requirements of NERC standards.~~

~~R1.23. Maintaining its responsibilities, authority, and actions taken in responding, communicating status, and coordinating operations under anticipated or actual bulk electric system emergency conditions.~~

~~R2.17.R1. _____ Adhering to cyber security protocols.~~

C. Measures

M1. The Reliability Coordinator shall have available for inspection its procedures, processes, tools, or facilities to meet Requirements R1 and R2.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization.

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

None.

1.3. Data Retention

None.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

2.1. Level 1: Not Applicable.

2.2. Level 2: Not Applicable.

2.3. Level 3: Not Applicable.

2.4. Level 4: Not Applicable.

E. Regional Differences

None identified.

Version History

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|---------|------|--------|-----------------|
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| 3. <u>Field test standards.</u> Ballot standards. | <u>March—July</u> <u>2006</u> October 2005 |
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| 5. <u>BOT</u> Board adoption. —5.— Proposed effective date. | <u>November</u> <u>2006</u> April 1, 2006 |
| 6. <u>Proposed effective date.</u> | <u>December 2006</u> |

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A. Introduction

1. **Title:** Reliability Coordinator Certification — Restoration
2. **Number:** ORG-027-1
3. **Purpose:** To ensure that the entity seeking certification as a Reliability Coordinator has a detailed restoration plan for implementation after a ~~B~~bulk ~~E~~lectric ~~S~~ystem shutdown.
4. **Applicability:**
 - 4.1. Entity seeking certification as a Reliability Coordinator.
5. ~~(Proposed)~~ **Effective Date:** ~~April-December~~ 1, 2006

B. Requirements

- R1. The Reliability Coordinator shall have a restoration plan that assures effective restoration ~~by enabling, and coordinating required operating actions necessary for system restoration of all the Balancing Authorities, Generator Operators, and Transmission Operators operating within~~ its Reliability Coordinator Area and ~~with~~ other Reliability Coordinators ~~following a partial or total Bulk Electric System shutdown as identified in EOP-006.~~
- ~~R2. The Reliability Coordinator shall have procedures or processes that define its responsibilities, authority, and actions in responding, communicating status, and coordinating following a partial or total bulk electric system shutdown.~~

C. Measures

- M1. The Reliability Coordinator shall have available for inspection the documentation specified in Requirements R1 ~~and R2.~~

D. Compliance

1. **Compliance Monitoring Process**
 - 1.1. **Compliance Monitoring Responsibility**

Regional Reliability Organization.
 - 1.2. **Compliance Monitoring Period and Reset Time ~~f~~Frame**

None.
 - 1.3. **Data Retention**

None.
 - 1.4. **Additional Compliance Information**

None.
2. **Levels of Non-Compliance**
 - 2.1. **Level 1:** Not Applicable.
 - 2.2. **Level 2:** Not Applicable
 - 2.3. **Level 3:** Not Applicable.
 - 2.4. **Level 4:** Not Applicable.

E. Regional Differences

None identified.

Version History

| Version | Date | Action | Change Tracking |
|---------|------|--------|-----------------|
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