

Standard Development Roadmap

Development Steps Completed:

1. Reliability Authority Certification SAR Requested — ~~October 7, 2002.10/7/02~~
2. Reliability Authority Certification SAR Authorized to Post — ~~November 20, 2002.11/20/02~~
3. SAR Drafting Team appointed — ~~January 6, 2003.1/6/03~~
4. Reliability Authority Certification SAR 1st Posting — ~~December 1, 2002 to January 10, 2003.12/1/02 to 1/10/03~~
5. Reliability Authority Certification SAR 2nd Posting — ~~February 28, 2003 to March 31, 2003.2/28/03 to 3/31/03~~
6. Reliability Authority Certification SAR 3rd Posting — ~~May 15, 2003 to June 13, 2003.5/15/03 to 6/13/03~~
7. Reliability Authority Certification SAR approved by SAC to move to standard development phase — ~~September 8, 2003.9/8/03~~
8. Standard Drafting Team appointed — ~~September 24, 2003.9/24/03~~

Description of Current Draft:

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To address comments received from the previous postings of the BA and TOP standards and to maintain consistency with the current NERC Reliability Standards, the term Reliability Authority has been replaced throughout the certification standards with the term Reliability Coordinator. All references to the Interchange Authority have been removed from the certification standards.

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3. Ballot standards.	October 2005
4. BOT adoption.	February 6, 2006
5. Proposed effective date.	April 1, 2006

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 - Certification
2. **Number:** ORG-019020-1
3. **Purpose:** To ensure that each entity that performs the operating reliability function is certified as a NERC Reliability Coordinator by the NERC Regional Reliability Organization using the NERC Certification Process for Reliability Coordinator.~~To ensure that each entity that wants to be recognized as a Reliability Coordinator for a defined Reliability Coordinator Area has the capability of performing the responsibilities assigned to the Reliability Coordinator function.~~
4. **Applicability**
 - 4.1. Entity seeking certification as a Reliability Coordinator
 - 4.2. Regional Reliability Organization
5. **(Proposed) Effective Date:** April 1, 2006

B. Requirements

- R1.** The entity that intends to perform the operating reliability 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 Transmission Operator Certification — Data Acquisition
 - Reliability Coordinator Certification — System Analysis
 - Reliability Coordinator Certification — System Monitoring
 - 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 Certification 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.
- R4.** The Reliability Coordinator shall have procedures, processes, and tools for adhering to NERC Reliability Standards including reporting requirements.
- R5.** The 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 Certification Process for Reliability Coordinators.~~
- ~~R7. The process for certification shall include an on-site visit of the Reliability Coordinator's control center facilities.~~
- ~~R1. Each entity that intends to perform the Reliability function shall obtain certification as a NERC Reliability Coordinator.~~
- ~~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 Certification Process.~~
- ~~R2.1. Reliability Authorities may delegate tasks, but retain responsibility.~~
- ~~R2.1. Reliability Authorities shall identify any task that will be performed by another entity.~~
- ~~R2.2. The entity, to which a task is delegated, is subject to review to ensure that the capability exists for them to perform the task as required in the standard.~~
- ~~R3. The Reliability Coordinator shall have procedures, processes or tools that address preparedness for adhering to NERC Reliability Standards.~~
- ~~R4. The Reliability Coordinator shall have procedures, processes or tools for calculating, reporting, and archiving data necessary to support Reliability Coordinator reporting requirements of NERC standards.~~
- ~~R5. The awarding of certification to the Reliability Coordinator shall be based solely on satisfaction of all of the requirements defined in the NERC Reliability Coordinator Certification Standards:~~
- ~~R5.1. Reliability Coordinator Certification — Agreements~~
- ~~R5.2. Reliability Coordinator Certification — Personnel~~
- ~~R5.3. Reliability Coordinator Certification — System Analysis~~
- ~~R5.4. Reliability Coordinator Certification — Data Acquisition~~
- ~~R5.5. Reliability Coordinator Certification — Restoration~~
- ~~R5.6. Reliability Coordinator Certification — Reliability Standards~~
- ~~R5.7. Reliability Coordinator Certification — System Monitoring~~
- ~~R5.8. Reliability Coordinator Certification — Emergency Operations~~
- ~~R5.9. Reliability Coordinator Certification — Loss of Control Center Functionality~~
- ~~R5.10. Reliability Coordinator Certification — Standards of Conduct~~
- ~~R6. The process for the certification shall be administered by the NERC Regional Reliability Organization or Organizations in which the entity plans to operate.~~
- ~~R7. The process for certification shall include an on-site visit of the Reliability Coordinator's control center facilities.~~
- ~~R8. The NERC Regional Reliability Organization shall use the NERC Certification process.~~
- ~~R9. The Regional Reliability Organization shall ensure that all generation, transmission, and load operating within an Interconnection are within the metered boundaries of a Reliability Coordinator Area. The entity that operates the Reliability Coordinator Area shall be a NERC Certified Reliability Coordinator.~~

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.~~
- ~~M3. The Regional Reliability Organization shall administer the certification process in adherence with Requirements R5 through R7.~~
- ~~M1. Each entity performing the Reliability function shall provide evidence of NERC Reliability Coordinator certification for each Reliability Coordinator Area it operates to the Regional Reliability Organization.~~
- ~~M2. The Reliability Coordinator shall have documentation available for inspection to meet Requirement R2.~~
- ~~M3. The Reliability Coordinator will have available for inspection, the processes, procedures, and tools to meet Requirements R3 and R4.~~
- ~~M4. The Regional Reliability Organization shall administer the certification process in adherence with Requirements R5 through R9.~~

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 R~~7~~⁹.

1.2. Compliance Monitoring Period and Reset Timeframe

None.

1.3. Data Retention

~~Regional Reliability Organization~~ — ~~None~~

~~NERC~~ — ~~Regional Reliability Organization letter of certification approval~~
~~The Regional Reliability Organization shall maintain evidence of certification for each active NERC Certified Reliability Coordinator~~

1.4. Additional Compliance Information

None

2. Levels of Non-Compliance

2.1. Level 1: ~~None~~ Not Applicable

2.2. Level 2: ~~None~~ Not Applicable

2.3. Level 3: ~~None~~ Not Applicable

2.4. Level 4: ~~None~~ Not Applicable

E. Regional Differences

~~1.~~ None identified

Version History

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~~Authority Certification Standard and the first posting of the Transmission Operator Certification Standards.~~

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

~~**Transmission Operator Area:** A collection of electrical facilities which a Transmission Operator is responsible for controlling or directing operations.~~

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:** ~~Transmission Operator~~Reliability Coordinator Certification — Agreements
2. **Number:** ORG-002021-1
3. **Purpose:** To ensure that the entity seeking certification as a ~~Transmission Operator~~Reliability Coordinator has agreements in place that define its responsibilities, authority, and interaction with entities that are necessary to perform its ~~transmission operations~~operating reliability function.
4. **Applicability**
 - 4.1. Entities seeking certification as a ~~Reliability Coordinator~~Transmission Operator
5. **(Proposed) Effective Date:** April 1, 2006

B. Requirements

- R1. The ~~Transmission Operator~~Reliability Coordinator shall have an executed copy of the NERC Confidentiality Agreement to which the ~~Reliability Coordinator~~ Transmission Operator is bound.
 - R1.1. The ~~Reliability Coordinator~~ Transmission Operator 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 and understand their obligations under the agreement.
- 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 have been trained and understand their obligations and responsibilities under the NERC Standards of Conduct.
 - R2.R3. The Reliability Coordinator Transmission Operator shall have agreements that define the responsibilities and authority of that ~~Reliability Coordinator~~ Transmission Operator with respect to its ~~Reliability Coordinator~~, Generator Owners, Generator Operators, Planning Authorities, Distribution Providers, Transmission Operators, Transmission Owners, Transmission Service Providers, Balancing Authorities, Transmission Planners, and adjacent ~~Reliability Coordinators~~Transmission Operators for the defined Reliability CoordinatorTransmission Area that addresses:
 - R2.1.R3.1. The Reliability Coordinator'sTransmission Operators commitment to provide reliability analyses to the Transmission Operators, Balancing Authorities, and Transmission Service Providers in its Reliability Coordinator Area and adjacent Reliability Coordinators.
 - ~~R2.1.1.~~Provide facility and operational data to the Reliability Coordinator
 - ~~R2.2.~~Provide real-time operational data to the Reliability Coordinator:
 - ~~R2.2.1.~~Provide transmission maintenance and construction plans to the Reliability Coordinator and Planning Authority.
 - ~~R2.2.2.~~Implement corrective actions as directed by the Reliability Coordinator.
 - ~~R2.2.3.~~Notify the Reliability Coordinator of the implementation of the Transmission Operator's emergency procedures.
 - ~~R2.1.6.~~Operate the transmission system within the generator facility ratings.

~~R2.2.3.1. Notify Generator Operators of transmission system problems that may affect generator operation.~~

~~R2.2.4. Operate the transmission system within the transmission facility ratings.~~

~~R2.1.8.R3.1.1. Provide information and capability to curtail and shed load during emergencies to the Planning Authority.~~

~~R2.2.6. Implement DC tie operations.~~

~~R2.2.7. Reduce voltage or shed load if needed to ensure balance in real-time as requested by the Balancing Authority or Reliability Coordinator.~~

~~R2.2.8. Obtain generation facility data, real-time operational data and generator maintenance plans.~~

~~R2.2.9. Obtain facility ratings and transmission maintenance and construction plans.~~

~~R2.1.13.R3.1.2. Obtain transmission system protection and control information, including special protection systems.~~

~~R2.3. The Reliability Coordinator's commitment to provide reliability analyses to the Transmission Operator.~~

~~R2.4. The Generator Owner's commitment to provide voltage support.~~

~~R2.5. The Generator Operator's commitment to:~~

~~R2.5.1. Provide reactive supply~~

~~R2.5.2. Report immediate changes in status of automatic voltage regulators and power system stabilizers.~~

~~R2.5.3. Provide real-time operating information.~~

~~R2.6. The Distribution Provider's commitment to implement voltage reduction and shed load.~~

~~R2.7. The Transmission Planner's commitment to define and communicate transmission system protection and control information, including special protection systems.~~

~~R2.8. Commitment of both the Transmission Operator and adjacent Transmission Operators to coordinate:~~

~~R2.8.1. Transmission line flows on interconnected facilities.~~

~~R2.8.2. Transmission operations and maintenance outages.~~

~~R3.2. The Balancing Authorities within the Reliability Coordinator Area commitment to:~~

~~R3.2.1. Identify the Balancing Authority's area metered boundaries.~~

~~R3.2.2. Provide the Balancing Integrated Operational Plans.~~

~~R3.2.3. Provide balancing information for real-time monitoring.~~

~~R3.2.4. Provide generator commitment and dispatch schedules.~~

~~R3.2.5. Provide real-time operational information.~~

~~R3.2.6. Comply Reliability Coordinator directives under both normal and emergency conditions~~

~~R3.2.7. Provide notice of Interchange Schedule interruptions.~~

- R3.2.8. Provide notice of the implementation of the Balancing Authorities' own emergency procedures.
- R3.3. The Transmission Operators within the Reliability Coordinator Area commitment to:
 - R3.3.1. Provide facility and operational data.
 - R3.3.2. Provide real-time operational data.
 - R3.3.3. Provide transmission maintenance and construction plans.
 - R3.3.4. Comply with Reliability Coordinator directives under both normal and emergency conditions.
 - R3.3.5. Provide notification of the implementation of the Transmission Operators' own emergency procedures.
- 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.
 - R3.4.2. Enforce transmission system limitations as directed by Reliability Coordinator.
 - R3.4.3. Follow the direction of the Reliability Coordinator.
- R3.5. The Generator Operators within the Reliability Coordinator Area commitment to provide facility and operational data to the Reliability Coordinator for modeling.
- 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.
- R3.7. The Planning Authorities within the Reliability Coordinator Area commitment to:
 - 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 construction plans.
- R3.9. The adjacent Reliability Authorities' commitment to:
 - R3.9.1. Provide reliability analysis information.
 - R3.9.2. Coordinate reliability processes and actions.

C. Measures

M1. The Reliability Coordinator shall have available for inspection documentation to meet Requirements R1 and R2.

~~M1.M2.~~ The Reliability Coordinator ~~Transmission Operator~~ shall have available for inspection agreement(s) that meet Requirements ~~R3.1 and R2.~~

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization

1.2. Compliance Monitoring Period and Reset Timeframe

None

1.3. Data Retention

None

1.4. Additional Compliance Information

None

2. Levels of Non-Compliance

2.1. Level 1: ~~None~~ Not Applicable

2.2. Level 2: ~~None~~ Not Applicable

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A. Introduction

1. **Title:** ~~Transmission Operator~~Reliability Coordinator Certification — Personnel
2. **Number:** ORG-02203-1
3. **Purpose:** To ensure that the entity seeking certification as a Reliability Coordinator ~~Transmission Operator~~ has operating personnel that have been trained and are NERC certified to perform Reliability Coordinator ~~Transmission Operator~~ real-time responsibilities.
4. **Applicability**
 - 4.1. Entities seeking certification as a Reliability Coordinator~~Transmission Operator~~
5. **(Proposed) Effective Date:** April 1, 2006

B. Requirements

- R1. The Reliability Coordinator~~Transmission Operator~~ shall have NERC-certified personnel to perform any of the real-time Reliability Coordinator ~~Transmission Operator~~ responsibilities 24 hours a day, seven days a week. Personnel shall have a current certification credential applicable to the Reliability Coordinator~~Transmission Operations~~ function. If any of these real-time tasks are delegated, the personnel performing these tasks shall also be certified.
 - R1.1. Tasks considered real-time Reliability Coordinator~~Transmission Operator~~ 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, Planning 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.
 - ~~Monitor, operate or direct the operations of the transmission system within equipment and facility ratings.~~
 - ~~Deploy reactive resources to maintain acceptable voltage profiles.~~
 - ~~Notify Generator Operators of transmission system problems.~~
 - ~~Request Reliability Authority to mitigate equipment overloads.~~
 - ~~Coordinate load shedding with, or as directed by, the Reliability Authority.~~
 - ~~Direct load shedding.~~
 - ~~Implement DC tie operations~~
- R2. The Reliability Coordinator ~~Transmission Operator~~ shall provide its operating personnel with training that addresses all of the procedures, processes, and tools associated with performing

the ~~Reliability Coordinator Transmission Operator~~ responsibilities identified in Requirement R1.

R2.1. The ~~Reliability Coordinator Transmission Operator~~ 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 Transmission Operator~~ shall have available for inspection, record of all certification for personnel identified in Requirement R1.

M2. The ~~Reliability Coordinator Transmission Operator~~ shall have available for inspection, record of all training activities for personnel identified in Requirement R2.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization

1.2. Compliance Monitoring Period and Reset Timeframe

None

1.3. Data Retention

None

1.4. Additional Compliance Information

None

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 - 7.~~Standard Drafting Team appointed — 9/24/03~~

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This is the first posting of the Reliability Coordinator Certification Standards. These standards have been drafted based on the SARs and applicable comments received during the first two postings of the Balancing Authority Certification Standard and applicable comments received during the first posting of the Transmission Operator Certification Standard. As was identified in the first posting of the Transmission Operator Certification Standard and the third posting of the Balancing Authority Certification Standard, the Drafting Team has removed the process that was previously included. In addition, the standards have been re-formatted to conform to the NERC standard format.

To address comments received from the previous postings of the BA and TOP standards and to maintain consistency with the current NERC Reliability Standards, the term Reliability Authority has been replaced throughout the certification standards with the term Reliability Coordinator. All references to the Interchange Authority have been removed from the certification standards.
~~Provide a brief description of the current draft — what is the status, what has changed in this draft.~~

Future Development Plan:

Anticipated Actions	Anticipated Date
1. <u>The drafting team will consider and respond to comments received during the current posting and revise the draft standard as needed.</u> The SDT	<u>July 2005</u>

respond to comments received during the 2nd posting and incorporate modifications based on the comments.	
2. It may be necessary to post this standard for a second time if changes are made after receiving the comments from this first posting. The SDT anticipates the necessity to post this standard for a third time after receiving the comments from this 2nd posting.	<u>August 2005</u>
3. Ballot standards. <u>Ballot Standard</u>	<u>October 2005</u> July 2005
4. BOT adoption. <u>BOT Adoption</u>	<u>February 6, 2006</u> October 2005
<u>5. Proposed effective date.</u>	<u>April 1, 2006</u>

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.

~~**Agreements:** An agreement is defined as 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 these agreements can be satisfied in a variety of ways, including but not limited to: contracts, designation of authority documents, policies, procedures.~~

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

A. Introduction

1. Title: Reliability Coordinator Certification — Data Acquisition and Monitoring
2. Number: ORG-02325-1
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.
~~3. To ensure that the entity seeking certification as a Reliability Coordinator has the capability of performing the responsibilities assigned to the entity performing the Reliability Coordinator function.~~
4. Applicability
 - 4.1. Entity seeking certification as a Reliability Coordinator
5. (Proposed) Effective Date: April 1, 2006

B. Requirements

R1. The Reliability Coordinator shall have and publish its data reporting requirements for its Reliability Coordinator Area that include: data required, periodicity of transmittal, format of submission, and time frame.

R2. The Reliability Coordinator shall have procedures, processes, and tools for acquiring:

R2.1. Generation facility data

R2.2. Generator real-time operational data

R2.3. Generator maintenance plans

R2.4. Transmission facility data

R2.5. Transmission real-time operational data

R2.6. Transmission 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. Interchange

~~R2. The Reliability Coordinator shall have procedures, processes, or tools for acquiring~~

~~R2.1 Generator MW and MVAR capability~~

~~R2.2 Generator MW and MVAR output~~

~~R2.3 Area Control Error~~

~~R2.4 Frequency~~

~~R2.5 MW Reserves~~

~~R2.6~~ Generation status

~~R2.7~~ Instantaneous demand

~~R2.8~~ Dynamic transfers

~~R2.9~~ Reactive resource data

~~R2.10~~ Instantaneous demand

~~R2.11~~ Voltages

~~R2.12~~ Transmission tie flows — both real and reactive

~~R2.13~~ Equipment status

~~R2.14~~ Transmission element flows — both real and reactive

~~R2.15~~ Special protection system statuses

~~R2.16~~ Equipment dynamic ratings

~~R2.17~~ Transformer Load Tap Changer position

~~R2.18~~ Phase Angles

~~R2.19~~ Phase Shifter settings

R3. The Reliability Coordinator shall have procedures, processes, or tools for acquiring the Balancing Integrated Operational Plan and plan updates from its Balancing Authority(ies):

~~R3.1~~ Integrated Operational Plan and plan updates

~~R3.2~~ Generator maintenance plans

~~R4.~~ The Reliability Coordinator shall have processes, procedures, and tools for acquiring maintenance plans from the Transmission Operator(s).

~~R4.~~ The Reliability Coordinator shall have processes, procedures, and tools for acquiring arranged and confirmed interchange information from the Interchange Authority(ies).

~~R5.~~ The Reliability Coordinator shall have processes, procedures, and tools for acquiring system protection and control information, including special protection systems, from its Planning Authority.

~~R7.R4.~~ The Reliability Coordinator shall have processes, procedures, and tools for acquiring reliability analysis information from adjacent Reliability Coordinator(ies).

~~R8.R5.~~ The Reliability Coordinator shall have processes, procedures, and tools for acquiring transmission system limitations, transmission adequacy plans, and determination of Total Transmission Capability values from Transmission Planner(s) in its Reliability Coordinator Area.

R6. The Reliability Coordinator shall have procedures, processes, and tools for monitoring each Transmission Operator within its Reliability Coordinator Area 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 that includes:

R7.1. Area Control Error

R7.2. Frequency

R7.3. MW and MVAR Reserves

R7.4. Instantaneous demand

R7.5. Interchange

R7.6. Generator real-time operational data

R8. The Reliability Coordinator shall have procedures, processes, and tools for monitoring its adjacent Reliability Coordinators that includes:

R8.1. Relevant real-time operating parameters of facilities to operate within Interconnection Reliability Operating Limits

R8.2. Reliability analysis information

~~R8. The Reliability Coordinator shall have processes, procedures, and tools for acquiring facility ratings and construction plans from the Transmission Owner(s) within its Reliability Coordinator area.~~

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 procedure, process, or use its tools to collect the data or information identified in Requirement R2 through R5.

M3. The Reliability Coordinator shall demonstrate that it can monitor the elements identified in Requirements R6 through R8.

~~M1. The Reliability Coordinator shall have available for inspection its established data reporting requirements identified in Requirement R1 through R3~~

~~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 R4 through R9.~~

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

~~1.1.1. Regional Reliability Organization~~

2.1.2. Compliance Monitoring Period and Reset Timeframe

~~2.1.1. None~~

3.1.3. Data Retention

~~3.1.1. None~~

4.1.4. Additional Compliance Information

~~The Reliability Coordinator shall not be certified for the designated Reliability Coordinator Area until Requirements R1 through R9 have been satisfied. None~~

5.2. Levels of Non-Compliance

~~5.1.2.1. Level 1: None~~ Not Applicable

~~5.2.2.2. Level 2: None~~ Not Applicable

~~5.3.2.3. Level 3: None~~ Not Applicable

~~5.4.2.4. Level 4: None~~ Not Applicable

E. Regional Differences

~~6.~~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.
 3. SAR Drafting Team appointed — January 6, 2003.
 4. Reliability Authority Certification SAR 1st Posting — December 1, 2002 to January 10, 2003.
 5. Reliability Authority Certification SAR 2nd Posting — February 28, 2003 to March 31, 2003.
 6. Reliability Authority Certification SAR 3rd Posting — May 15, 2003 to June 13, 2003.
 7. Reliability Authority Certification SAR approved by SAC to move to standard development phase — September 8, 2003.
 8. Standard Drafting Team appointed — September 24, 2003.
1. ~~Reliability Authority Certification SAR Requested — 10/7/02~~
 2. ~~Reliability Authority Certification SAR Authorized to Post — 11/20/02~~
 3. ~~SAR Drafting Team appointed — 1/6/03~~
 4. ~~Reliability Authority Certification SAR 1st Posting — 12/1/02 to 1/10/03~~
 5. ~~Reliability Authority Certification SAR 2nd Posting — 5/15/03 to 6/13/03~~
 6. ~~Reliability Authority Certification SAR approved by SAC to move to standard development phase — 9/8/03~~
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3. <u>Ballot Standard</u> s.	<u>October 2005</u> July —2005
4. <u>BOT Adoption</u> .	<u>February 6,</u> <u>2006</u> October 2005
<u>5. Proposed effective date.</u>	<u>April 1, 2006</u>

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

A. Introduction

1. **Title:** Reliability ~~Authority 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, direct and coordinate actions to maintain reliable operation within its Reliability Coordinator Area and the Interconnection. To ensure that each entity that wants to be recognized as a Reliability Authority for a defined Reliability Authority Area has the capability of performing the responsibilities assigned to the Reliability Authority function.~~
4. **Applicability**
 - 4.1. ~~Entity seeking certification as a Reliability Coordinator Reliability Authority~~
5. **(Proposed) Effective Date:** April 1, 2006

B. Requirements

- ~~R1.~~ The Reliability Coordinator shall have processes, procedures and tool(s) to develop operating reliability limits.
- ~~R1.R2.~~ The Applicant shall perform real-time reliability analysis. The Reliability Coordinator shall have processes, procedures, and tool(s) to perform real-time reliability analysis and alert operating personnel to limit violations.
- ~~R3.~~ The Reliability Coordinator shall perform contingency analyses, develop contingency plans and coordinate these plans with its Transmission Operators, Balancing Authorities, and adjacent Reliability Coordinators.
 - ~~R3.1.~~ The Applicant shall perform reliability contingency analyses. 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
 - ~~R2.R3.1.3.~~ On at least a 15 minute interval based on current system conditions
- ~~R4.~~ The Reliability Coordinator shall have processes, procedures and tool(s) to coordinate and direct actions with its Transmission Operators, Balancing Authorities, and adjacent Reliability Coordinators.
- ~~R3.R5.~~ The Reliability Coordinator shall have processes, procedures, and tool(s) to analyze, coordinate, and approve transmission outages within its Reliability Coordinator Area from a reliability perspective.
- ~~R4.R6.~~ The Reliability Coordinator shall have processes, procedures, and tool(s) to analyze, coordinate, and approve generation outages within its Reliability Coordinator Area from a reliability perspective.
- ~~R5.R7.~~ The Reliability Coordinator shall have processes, procedures, and tool(s) to analyze, coordinate, and approve the Balancing Integrated Operational Plan(s) submitted by the Balancing Authority(ies) within its Reliability Coordinator Authority Area from a reliability perspective.

~~R5. The Applicant shall coordinate day-ahead analyses with other Reliability Authorities.~~

~~R6. The Applicant shall coordinate real-time actions with other Reliability Authorities.~~

~~R8. The Reliability Coordinator shall have processes, procedures and tool(s) to analyze arranged-interchange into, out of, and through its Reliability Coordinator Authority Area for approval or denial.~~

~~R8. The Applicant shall develop operating reliability limits.~~

C. Measures

~~M1. The Reliability Coordinator shall have available for inspection its procedures, processes, and tools to meet Requirements R1 through R8.~~

~~M1. The Applicant shall demonstrate its tool(s) that alerts the operating personnel to limit violations and that its personnel can follow its process or procedure for corrective action.~~

~~M2. The Applicant shall demonstrate that it can follow its process or procedures and use its tool(s) to analyze system data and issue corrective actions to maintain operating reliability requirements.~~

~~M3. The Applicant shall demonstrate that it can follow its process/procedure and use its tool(s) to perform contingency reliability analysis with the following periodicity:~~

~~M3.1 Day-ahead based on projected system conditions.~~

~~M3.2 On-demand based on current or anticipated system conditions.~~

~~M3.3 On at least a 15-minute interval based on current system conditions.~~

~~M4. The Applicant shall demonstrate that it can follow its process/procedure and use its tool(s) to analyze, coordinate, and approve or deny transmission outages from a reliability perspective.~~

~~M5. The Applicant shall demonstrate that it can follow its process/procedure and use its tool(s) to analyze, coordinate, and approve generation outages from a reliability perspective.~~

~~M5.1 The process/procedure must identify actions to mitigate identified reliability issues with each affected Balancing Authority within its Reliability Authority area.~~

~~M6. The Applicant shall demonstrate that it can follow its process/procedure and use its tool(s) to analyze, coordinate, and approve from a reliability perspective the Integrated Operational Plan(s) submitted by the Balancing Authority(ies) within its Reliability Authority area.~~

~~M6.1 The process/procedure must identify actions to mitigate identified reliability issues with each Balancing Authority within its Reliability Authority area.~~

~~M7. The Applicant shall demonstrate that it can follow its process/procedure for coordinating day-ahead analyses with other Reliability Authorities.~~

~~M7.1 The process/procedure must identify actions to mitigate reliability issues with other Reliability Authorities identified in the day-ahead plan.~~

~~M7.2 The process/procedure must identify the Reliability Authority's plan for disseminating its own reliability information to other Reliability Authorities.~~

~~M8. The Applicant shall demonstrate that it can follow its process/procedure to coordinate real-time actions with other Reliability Authorities.~~

~~M8.1 The process/procedure must address the following Reliability Authority actions:~~

~~M1.8.1 Generation Re-dispatch~~

~~M2.8.1 Interchange Curtailment~~

~~M3.8.1 Transmission Re-configuration~~

~~M4.8.1 Voltage Support~~

~~M5.8.1 Frequency Support~~

~~M6.8.1 Transmission Loading Levels~~

~~M9. The Applicant shall demonstrate that it can follow its process/procedure and use its tool for analyzing arranged interchange into, out of, and through its Reliability Authority area for approval or denial.~~

~~M10. The Applicant shall demonstrate that it can follow its process/procedure and use its tool for developing, communicating, monitoring, and mitigating Interconnection Reliability Operating Limits within its Reliability Authority area.~~

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

~~The Applicant shall demonstrate compliance through completion of a Reliability Authority certification questionnaire attesting that it has process or procedures for system analysis.~~

~~The Applicant shall support the questionnaire during the on-site review by providing its procedures and processes and by demonstrating its tools as requested by the Certification Review Team Regional Reliability Organization~~

1.2. Compliance Monitoring Period and Reset Timeframe

None

1.3. Data Retention

None

1.4. Additional Compliance Information

None

2. Levels of Non-Compliance

2.1. Level 1: ~~None~~ Not Applicable

2.2. Level 2: ~~None~~ Not Applicable

2.3. Level 3: ~~None~~ Not Applicable

2.4. Level 4: ~~None~~ Not Applicable

E. Regional Differences

~~1.~~ None identified

Version History

Version	Date	Action	Change Tracking
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Standard Development Roadmap

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:

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.
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 7. Reliability Authority Certification SAR approved by SAC to move to standard development phase — September 8, 2003.
- ~~1. Standard Drafting Team appointed — September 24, 2003. Transmission Operator Certification SAR submitted — October 7, 2002.~~
- ~~1. Transmission Operator Certification SAR authorized for posting — November 20, 2002.~~
- ~~2. SAR drafting team appointed — January 6, 2003.~~
- ~~3. Transmission Operator Certification SAR first posting — December 1, 2002 to January 10, 2003.~~
- ~~4. Transmission Operator Certification SAR second posting — May 15, 2003 to June 13, 2003.~~
- ~~5. Transmission Operator Certification SAR authorized by SAC for standard development — September 8, 2003.~~
- ~~6. Standard drafting team appointed — September 24, 2003.~~
- ~~7. Transmission Operator Certification Standard first posting — January 3, 2005 to February 18, 2005.~~

Description of Current Draft:

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~~postings of the Balancing Authority Certification Standard and the first posting of the Transmission Operator Certification Standards.~~

Future Development Plan:

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3. <u>Ballot standards.</u> Ballot standards.	October 2005
4. <u>BOT adoption.</u> BOT adoption.	February 6, 2006
<u>5. Proposed effective date.</u> 5. Proposed effective date.	April 1, 2006

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~~**Transmission Operator Area:** A collection of electrical facilities which a Transmission Operator is responsible for controlling or directing operations.~~

A. Introduction

1. **Title:** Reliability Coordinator ~~Transmission Operator~~ Certification — Emergency Operations
2. **Number:** ORG-~~00625~~-1
3. **Purpose:** To ensure that the entity seeking certification as a ~~Transmission Operator~~Reliability Coordinator has the capability for continued operations during Emergency conditions.
4. **Applicability:**
 - 4.1. Entity seeking certification as a Reliability Coordinator~~Transmission Operator~~
5. **(Proposed) Effective Date:** April 1, 2006

B. Requirements

- R1. The ~~Transmission Operator~~Reliability Coordinator shall have procedures or processes that define its responsibilities, authority, and actions for responding, communicating status, and coordinating operations during an Emergency that address when: ~~the Transmission Operator:~~
 - R1.1. Balancing Authorities within the Reliability Coordinator Area are unable to meet their resource or load requirements.
 - R1.2. Transmission Operators within the Reliability Coordinator Area are unable to meet their:
 - R1.2.1. Voltage and reactive requirements
 - R1.2.2. System Operating Limits
 - R1.3. Emergency requirements are imposed by any regulatory organization.
- R2. The Reliability Coordinator shall have procedures or processes that define its responsibilities, authority, and actions for responding, communicating status, and coordinating operations during an Emergency that address when the Reliability Coordinator:
 - R2.1. Is required to issue corrective actions.
 - R2.1.1. Notify and coordinate with adjacent Reliability Coordinators.
 - R2.2. Is requested by another Reliability Coordinator to take actions to maintain the reliability of the interconnection.
 - R2.3. Is required to take action to mitigate an IROL violation.
 - R2.4. Has experienced a partial or complete system shutdown in its Reliability Coordinator Area.
 - R2.5. 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.
 - ~~R1.1. Is unable to meet its voltage and reactive requirements.~~
 - ~~R1.2. Is experiencing an actual Emergency.~~
 - ~~R1.3. Has experienced or is informed of an actual or suspected act of sabotage that affects a physical or cyber asset within its Transmission Operator Area.~~
 - ~~R1.4. Takes actions under an anticipated or actual Emergency.~~
 - ~~R1.4.1. Coordinate with adjacent Transmission Operators.~~

~~R1.5. Is directed to take action to mitigate an Interconnection Reliability Operating Limit violation.~~

~~R1.6. Must shed load when directed by the Balancing Authority or Reliability Authority~~

C. Measures

- M1. The ~~Transmission Operator~~Reliability Coordinator shall demonstrate that it can follow its procedures, processes, or use its tools to operate during Emergency conditions as identified 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 Timeframe

None

1.3. Data Retention

None

1.4. Additional Compliance Information

None

2. Levels of Non-Compliance

2.1. Level 1: ~~None~~Not Applicable

2.2. Level 2: ~~None~~Not Applicable

2.3. Level 3: ~~None~~Not Applicable

2.4. Level 4: ~~None~~Not Applicable

E. Regional Differences

None identified

Version History

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Anticipated Actions	Anticipated Date
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2. It may be necessary to post this standard for a second time if changes are made after receiving the comments from this first posting. <u>It may be necessary to post this standard for a third time if changes are made after receiving the comments from this second posting.</u>	August 2005
3. Ballot standards.	October 2005
4. BOT adoption.	February 6, 2006
5. Proposed effective date.	April 1, 2006

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.

~~**Transmission Operator Area:** A collection of electrical facilities which a Transmission Operator is responsible for controlling or directing operations.~~

A. Introduction

1. **Title:** ~~Transmission Operator~~Reliability Coordinator Certification — Loss of Control Center Functionality
2. **Number:** ORG-~~007026~~-1
3. **Purpose:** To ensure that the entity seeking certification as a ~~Transmission Operator~~Reliability Coordinator has the capability for continued operations during loss of its control center functionality.
4. **Applicability:**
 - 4.1. Entity seeking certification as a ~~Transmission Operator~~Reliability Coordinator
5. **(Proposed) Effective Date:** April 1, 2006

B. Requirements

- R1. The Reliability Coordinator shall have procedures, processes, tools, or facilities to continue to maintain resource-demand balance for its Reliability Coordinator Area under the following conditions:
 - R1.1. Evacuation of control center building
 - R1.2. Loss of communications¹
 - R1.3. Loss of Monitoring and Assessment Systems functionality
 - R1.4. Loss of critical Supervisory Control and Data Acquisition system data
 - R1.5. Loss of control center support functions, i.e. air conditioning, power, water
- R2. The Reliability Coordinator shall have procedures, processes, or tools to operate in accordance with NERC standards within the defined Reliability Coordinator Area during the loss of control center functionality for the conditions identified in requirement R1 that addresses:
 - R2.1. Acquiring and monitoring real-time data for its Reliability Coordinator Area.
 - R2.2. Acquiring the Balancing Integrated Operational Plan and plan updates from the Balancing Authorities within its Reliability Coordinator Area.
 - R2.3. Acquiring maintenance and construction plans and equipment ratings from the Transmission Operators within its Reliability Coordinator Area.
 - R2.4. Acquiring system protection and control information, including special protection systems from its Planning Authority.
 - R2.5. Acquiring reliability analysis information from adjacent Reliability Coordinators.
 - R2.6. Acquiring transmission system limitations, transmission adequacy plans, and determination of Total Transmission Capability values from Transmission planner(s) within its Reliability Coordinator Area.
 - R2.7. 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)

- R2.8. Monitoring the relevant real-time operating parameters of adjacent Reliability Coordinator's facilities to operate within its IROLs.
- R2.9. Performing real-time reliability analysis including contingency analysis.
- R2.10. Analyzing, coordinating, and approving transmission and generator outages from a reliability perspective.
- R2.11. Analyzing, coordinating, and approving the Balancing Integrated Operational Plans submitted by the Balancing Authorities within its Reliability Coordinator Area from a reliability perspective.
- R2.12. Coordinating day-ahead analysis with other Reliability Coordinators.
- R2.13. Implementing real-time actions with other Reliability Coordinators.
- R2.14. Analyzing arranged interchange into, out of, and through its Reliability Coordinator Area.
- R2.15. Developing operating reliability limits.
- R2.16. Calculating, reporting, and archiving data necessary to support Reliability Coordinator reporting requirements of NERC standards.
- R2.17. Maintaining its responsibilities, authority, and actions in responding, communicating status, and coordinating following a partial or total bulk electric system shutdown.
- R2.18. Adhering to NERC Reliability Standards related to cyber security.

~~R2. The Transmission Operator shall have procedures, processes, tools, or facilities to continue to operate in accordance with NERC standards related to Loss of Control Center Functionality under the single occurrence for each of the following conditions:~~

- ~~▪Evacuation of control center building.~~
- ~~▪Loss of communications.²~~
- ~~▪Loss of monitoring and assessment systems functionality.~~
- ~~▪Loss of Supervisory Control and Data Acquisition system data.~~
- ~~▪Loss of control center support functions, i.e. air conditioning, power, or water. ———~~

~~R3. The Transmission Operator shall have procedures or processes and tool(s) to operate in accordance with NERC Standards for a Transmission Operator during the conditions identified in Requirement R1 and shall address the following:~~

- ~~R3.1. Acquiring generation facility data, real-time operational data and generator maintenance plans.~~
- ~~R3.2. Acquiring transmission facility data, real-time operational data and maintenance and construction plans.~~
- ~~R3.3. Providing its Transmission Operator Area information, in real-time, to the Reliability Authority.~~

² Loss of communications is meant to include all communications other than that associated with SCADA data (internet, administrative and operational voice, etc)

~~R3.4. Providing and coordinating transmission maintenance and construction plans with the Reliability Authority.~~

~~R3.5. Coordinating with adjacent Transmission Operators.~~

~~R3.6. Performing real-time reliability analysis.~~

~~R3.7. Performing contingency analyses, develop contingency plans, and coordinate these plans with its Reliability Authority.~~

~~R3.8. Determining and arranging for the required reactive resources to ensure voltage support.~~

~~R3.9. Communicating real-time actions to its Reliability Authority.~~

~~R3.10. Monitoring its Transmission Operator Area with real-time data.~~

C. Measures

M1. The ~~Transmission Operator~~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 Timeframe

None

1.3. Data Retention

None

1.4. Additional Compliance Information

None

2. Levels of Non-Compliance

2.1. Level 1: ~~None~~Not Applicable

2.2. Level 2: ~~None~~Not Applicable

2.3. Level 3: ~~None~~Not Applicable

2.4. Level 4: ~~None~~Not Applicable

E. Regional Differences

None identified

Version History

Version	Date	Action	Change Tracking
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Standard Development Roadmap

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:

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 Posting — December 1, 2002 to January 10, 2003.
 5. Reliability Authority Certification SAR 2nd Posting — February 28, 2003 to March 31, 2003.
 6. Reliability Authority Certification SAR 3rd Posting — May 15, 2003 to June 13, 2003.
 7. Reliability Authority Certification SAR approved by SAC to move to standard development phase — September 8, 2003.
 8. Standard Drafting Team appointed — September 24, 2003.
- ~~1. Transmission Operator Certification SAR submitted — October 7, 2002.~~
 - ~~2. Transmission Operator Certification SAR authorized for posting — November 20, 2002.~~
 - ~~3. SAR drafting team appointed — January 6, 2003.~~
 - ~~4. Transmission Operator Certification SAR first posting — December 1, 2002 to January 10, 2003.~~
 - ~~5. Transmission Operator Certification SAR second posting — May 15, 2003 to June 13, 2003.~~
 - ~~6. Transmission Operator Certification SAR authorized by SAC for standard development — September 8, 2003.~~
 - ~~7. Standard drafting team appointed — September 24, 2003.~~
 - ~~8. Transmission Operator Certification Standard first posting — January 3, 2005 to February 18, 2005.~~

Description of Current Draft:

This is the first posting of the Reliability Coordinator Certification Standards. These standards have been drafted based on the SARs and applicable comments received during the first two postings of the Balancing Authority Certification Standard and applicable comments received during the first posting of the Transmission Operator Certification Standard. As was identified in the first posting of the Transmission Operator Certification Standard and the third posting of the Balancing Authority Certification Standard, the Drafting Team has removed the process that was previously included. In addition, the standards have been re-formatted to conform to the NERC standard format.

To address comments received from the previous postings of the BA and TOP standards and to maintain consistency with the current NERC Reliability Standards, the term Reliability Authority has been replaced throughout the certification standards with the term Reliability Coordinator. All references to the Interchange Authority have been removed from the certification standards. This is the second posting of the Transmission Operator Certification Standards. These standards have been drafted based on the SARs and updated based on the comments received during the first and second postings of the Balancing Authority Certification Standard and the first posting of the Transmission Operator Certification Standards.

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. <u>The drafting team will consider and respond to comments received during the current posting and revise the draft standard as needed.</u>	July 2005
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Definitions of Terms Used in Standard

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A. Introduction

1. **Title:** ~~Transmission Operator~~Reliability Coordinator Certification — Restoration
2. **Number:** ORG-02708-1
3. **Purpose:** To ensure that the entity seeking certification as a ~~Transmission Operator~~Reliability Coordinator has a detailed restoration plan for implementation after a system shutdown.
4. **Applicability:**
 - 4.1. Entity seeking certification as a ~~Transmission Operator~~Reliability Coordinator
5. **(Proposed) Effective Date:** April 1, 2006

B. Requirements

- ~~R1. The Transmission Operator shall have a restoration plan that defines its responsibilities, authority, and actions in responding, communicating status, and coordinating with the Reliability Authority, Balancing Authority(ies), Generator Operator(s), Distribution Providers, and adjacent Transmission Operators following a partial or total system shutdown. The Reliability Coordinator shall have a restoration plan that integrates the restoration plans of all of the entities operating within its Reliability Coordinator Area including its Balancing Authorities, Generator Operators, Transmission Operators, Load Serving Entities and Adjacent Reliability Coordinators.~~
- ~~R1.~~
- 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 system shutdown.~~The Transmission Operator shall provide its restoration plan to its Reliability Authority.~~

C. Measures

- M1. The ~~Transmission Operator~~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 Timeframe**

None
 - 1.3. **Data Retention**

None
 - 1.4. **Additional Compliance Information**

None
2. **Levels of Non-Compliance**
 - 2.1. **Level 1:** ~~None~~Not Applicable

- 2.2. Level 2: ~~None~~Not Applicable
- 2.3. Level 3: ~~None~~Not Applicable
- 2.4. Level 4: ~~None~~Not Applicable

E. Regional Differences

None identified

Version History

Version	Date	Action	Change Tracking
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