

## Standard Development Roadmap

### Development Steps Completed:

1. Balancing Authority Certification SAR requested — October 7, 2002.
2. Balancing Authority Certification SAR authorized for posting — November 20, 2002.
3. SAR drafting team appointed — January 6, 2003.
4. Balancing Authority Certification SAR first posting — December 1, 2002 to January 10, 2003.
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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 2005
2. It may be necessary to post this standard for a fourth time if changes are made after receiving the comments from this third posting.	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

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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:** **Balancing Authority Certification - Certification**
2. **Number:** ORG-009-1
3. **Purpose:** To ensure that each entity that performs the balancing function for a defined Balancing Authority Area is certified as a NERC Balancing Authority by the NERC Regional Reliability Organization using the NERC Certification Process for Balancing Authorities.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority.
  - 4.2. Regional Reliability Organization
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The entity that intends to perform the balancing function shall obtain certification as a NERC Balancing Authority by satisfying all of the requirements identified in the NERC Balancing Authority Certification Standards.
  - Balancing Authority Certification — Certification
  - Balancing Authority Certification — Agreements
  - Balancing Authority Certification — Personnel
  - Balancing Authority Certification — Balancing
  - Balancing Authority Certification — Data Acquisition
  - Balancing Authority Certification — Frequency Control
  - Balancing Authority Certification — Interchange Approval and Implementation
  - Balancing Authority Certification — Information Dissemination
  - Balancing Authority Certification — Emergency Operations
  - Balancing Authority Certification — Loss of Control Center Functionality
- R2. The entity seeking certification as a Balancing Authority shall apply for certification in accordance with and adhere to the administrative requirements of the NERC Certification Process for Balancing Authorities.
- R3. A Balancing Authority may delegate tasks, but shall retain responsibility for all tasks. Each entity seeking certification as a Balancing Authority 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 Balancing Authority shall have procedures, processes, and tools for adhering to NERC Reliability Standards including reporting requirements.
- R5. The awarding of certification to the Balancing Authority shall be based on satisfying all of the requirements defined in the NERC Balancing Authority Certification Standards identified in Requirement R1.

- R6. The NERC Regional Reliability Organizations shall administer the certification process using the NERC Certification Process for Balancing Authorities.
- R7. The process for certification shall include an on-site visit of the Balancing Authority’s control center facilities.

**C. Measures**

- M1. The Balancing Authority shall meet Requirement R1.
- M2. The Balancing Authority 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.

**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 R7.

**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.

**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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**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:** **Balancing Authority Certification — Agreements**
2. **Number:** ORG-010-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has agreements in place that define its responsibilities, authority, and interaction with entities that are necessary to perform its balancing function.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority.
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority shall have agreements that define the responsibilities and authority of that Balancing Authority with respect to its Load Serving Entities, Generator Operators, Reliability Coordinator, adjacent Balancing Authority(s), Transmission Operators, and Transmission Owners for the defined Balancing Authority Area that addresses:
  - R1.1. The commitment of its Load Serving Entities, Generator Operators, or Transmission Operators to follow the Balancing Authority's directives to ensure balance in real time that address:
    - R1.1.1. Shedding load.
    - R1.1.2. Reducing voltage.
    - R1.1.3. Re-dispatching resources.
    - R1.1.4. Adhering to balanced interchange schedules.
  - R1.2. The Balancing Authority's commitment to follow the directives of its Reliability Coordinator.
  - R1.3. The adjacent Balancing Authority(s) commitment to:
    - R1.3.1. Confirm Actual Interchange for after the hour 'checkout'.
    - R1.3.2. Coordinate pseudo-ties that exist in another Balancing Authority Area.
    - R1.3.3. Identify the location of its Balancing Authority Area's metered boundaries.
- R2. The Balancing Authority shall have agreements that define the data and information exchange responsibilities with respect to its Load Serving Entities, Generator Owners, Generator Operators, Reliability Coordinator, adjacent Balancing Authority(s), Transmission Operators, and Transmission Owners that addresses:
  - R2.1. Generator real time operating data.
  - R2.2. Identification of its Balancing Area's metered boundaries.
  - R2.3. Balancing Integrated Operational Plans.
  - R2.4. Balancing information for real-time monitoring.
  - R2.5. Real-time operational information for Reliability Coordinator monitoring.
  - R2.6. Notice of Interchange Schedule interruptions due to generation or load interruptions within its Balancing Authority Area.

**R2.7.** Notice of the implementation of its own emergency procedures.

**R2.8.** Interconnection boundary metering.

**R2.9.** Actual Interchange.

**R2.10.** Frequency.

**R2.11.** Dynamic schedules.

**C. Measures**

**M1.** The Balancing Authority shall have available for inspection agreement(s) that 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:** Not Applicable

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**E. Regional Differences**

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## A. Introduction

1. **Title:** **Balancing Authority Certification — Personnel**
2. **Number:** ORG-011-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has operating personnel that have been trained and are NERC-certified to perform Balancing Authority real-time responsibilities.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

**R1.** The Balancing Authority shall have NERC-certified personnel to perform any of the real-time Balancing Authority responsibilities 24 hours a day, seven days a week. Personnel shall have a current certification credential applicable to the balancing function. If any of these real-time tasks are delegated, the personnel performing these tasks must also be certified.

**R1.1.** Tasks considered real-time Balancing Authority responsibilities include:

- Directs resources (Generator Operators and Load-Serving Entities) to take action to ensure balance in real time.
- Directs Transmission Operator to reduce voltage or shed load if needed to ensure balance within its Balancing Authority Area.
- Complies with reliability requirements specified by Reliability Coordinator.
- Informs the Reliability Coordinator and impacted Balancing Authorities of Interchange Schedule interruptions due to generation or load interruptions within its Balancing Authority Area.
- Directs Generator Operators to implement redispatch for congestion management as directed by the Reliability Coordinator.
- Notifies the Reliability Coordinator of the implementation of its own emergency procedures.
- Coordinates the implementation of controllable loads with Load Serving Entities.
- Implements emergency procedures as directed by the Reliability Coordinator.
- Provides real-time verbal system information to the Reliability Coordinator.

**R2.** The Balancing Authority shall provide its operating personnel with training that addresses all of the procedures, processes, and tools associated with performing the Balancing Authority responsibilities identified in Requirement R1.

**R2.1.** The Balancing Authority shall have training records identifying when the training occurred, who attended the training, and the material that was covered.

## C. Measures

- M1.** The Balancing Authority shall have available for inspection, records of all certifications for personnel identified in Requirement R1.
- M2.** The Balancing Authority shall have available for inspection, records 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

**2. Levels of Non-Compliance**

**2.1. Level 1:** Not Applicable

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**E. Regional Differences**

None identified.

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## A. Introduction

1. **Title:** **Balancing Authority Certification — Balancing**
2. **Number:** ORG-012-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has the capability of performing the balancing responsibilities for its Balancing Authority Area.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority shall have procedures or processes to determine the requirements and amounts for, and the deployment of; generation and demand balance Interconnected Operation Services.
- R2. The Balancing Authority shall have procedures or processes to develop its Balancing Integrated Operational Plan.
- R3. The Balancing Authority shall have procedures or processes to implement the Balancing Integrated Operational Plan including modification to reflect changes.
- R4. The Balancing Authority shall have procedures, processes, or tools for monitoring resource availabilities and capabilities in real-time.
- R5. The Balancing Authority shall have procedures, processes, or tools to direct actions of resources within its Balancing Authority Area.
- R6. The Balancing Authority shall have procedures, processes, or tools to obtain and implement interchange schedules.
- R7. The Balancing Authority shall have procedures, processes, or tools to validate the accuracy of Area Control Error components and implement corrective actions.
- R8. The Balancing Authority shall have tools to calculate and monitor the Area Control Error for its Balancing Authority Area.
- R9. The Balancing Authority shall have tools to monitor its metered boundaries in real-time.
- R10. The Balancing Authority shall have tools to monitor real-time status and output of resources used for generation and demand balance Interconnected Operation Services.

## C. Measures

- M1. The Balancing Authority shall have available for inspection its procedures or processes to satisfy Requirements R1 through R3.
- M2. The Balancing Authority shall have available for inspection its procedures or processes or demonstrate its tools to satisfy Requirements R4 through R7.
- M3. The Balancing Authority shall demonstrate its tools to satisfy Requirements R8 through R10.

## D. Compliance

1. **Compliance Monitoring Process**  
Compliance Monitoring Responsibility

Regional Reliability Organization

**1.1. Compliance Monitoring Period and Reset Timeframe**

None

**1.2. Data Retention**

None

**1.3. Additional Compliance Information**

None

**2. Levels of Non-Compliance**

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**E. Regional Differences**

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## A. Introduction

1. **Title:** **Balancing Authority Certification — Data Acquisition**
2. **Number:** ORG-013-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has real-time resource-demand data in order to adequately control its system while maintaining acceptable system frequency.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority shall have data reporting requirements for its Balancing Authority Area that include: data required, periodicity of transmittal, format of submission, and time frame.
- R2. The Balancing Authority shall have procedures, processes, and tools for acquiring:
  - R2.1. Load Forecast(s)
  - R2.2. Controllable load(s), if applicable
  - R2.3. Interchange schedule requests
  - R2.4. Approved Interchange schedules
  - R2.5. System frequency(s)
  - R2.6. Scheduled Frequency
  - R2.7. Variable frequency bias if applicable
  - R2.8. Actual Interchange
  - R2.9. Generator operational plans and commitments
  - R2.10. Generator maintenance plans
  - R2.11. Real-time generator operational information
  - R2.12. Generation and Demand balance Interconnected Operations Services
- R3. The Balancing Authority shall have procedures, processes, or tools for acquiring Reliability Coordinator information:
  - R3.1. Dispatch adjustments for congestion management
  - R3.2. Emergency procedures
  - R3.3. Reliability analyses
  - R3.4. Load shedding
  - R3.5. Reliability alerts

## C. Measures

- M1.** The Balancing Authority shall have available for inspection its established data reporting requirements identified in Requirement R1.
- M2.** The Balancing Authority shall demonstrate that it can follow its procedures, processes, or use its tools to collect the data or information identified in Requirements R2 and R3.

**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**

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**1.4. Additional Compliance Information**

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2. It may be necessary to post this standard for a fourth time if changes are made after receiving the comments from this third posting.	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**

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## A. Introduction

1. **Title:** **Balancing Authority Certification — Frequency Control**
2. **Number:** ORG-014-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has the capability to perform frequency control in its defined Balancing Authority Area.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority shall have procedures, processes, or tools for contributing to Interconnection frequency that address:
  - R1.1. Determining frequency response
  - R1.2. Determining frequency bias
  - R1.3. Incorporating frequency bias into Area Control Error calculation
  - R1.4. Operating in Tie-Line Bias or flat (constant) frequency control modes
  - R1.5. Utilizing both scheduled and actual frequency elements in Area Control Error calculation

## C. Measures

- M1. The Balancing Authority shall demonstrate that it can follow its procedures, processes, or use its tools to contribute to frequency control as identified in Requirement R1.

## D. Compliance

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

Regional Reliability Organization
  - 1.1. **Compliance Monitoring Period and Reset Timeframe**

None
  - 1.2. **Data Retention**

None
  - 1.3. **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. Balancing Authority Certification SAR requested — October 7, 2002.
2. Balancing Authority Certification SAR authorized for posting — November 20, 2002.
3. SAR drafting team appointed — January 6, 2003.
4. Balancing Authority Certification SAR first posting — December 1, 2002 to January 10, 2003.
5. Balancing Authority Certification SAR second posting — February 28, 2003 to March 31, 2003.
6. Balancing Authority Certification SAR third posting — May 15, 2003 to June 13, 2003.
7. Balancing Authority Certification SAR authorized by SAC for standard development — September 8, 2003.
8. Standard drafting team appointed — September 24, 2003.
9. Balancing Authority Certification Standard first posting — April 2, 2004 to May 17, 2004.
10. Balancing Authority Certification Standard second posting — August 19, 2004 to October 4, 2004.

### Description of Current Draft:

This is the third posting of the Balancing Authority Certification Standards. These standards have been drafted based on the SARs and updated based on the comments received during the first two postings of the Balancing Authority Standard and applicable comments received during the first posting Transmission Operator Certification Standard. As was identified in the Transmission Operator Certification Standard, the Drafting Team has also removed the certification 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.

### 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 2005
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## A. Introduction

1. **Title:** **Balancing Authority Certification — Interchange Approval and Implementation**
2. **Number:** ORG-015-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has the capability to approve and implement interchange schedules.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority shall have procedures, processes, or tools for interchange schedule approval that includes the determination that the resource ramp capability meets the projected interchange schedule ramp.
- R2. The Balancing Authority shall have procedures, processes, or tools for implementing interchange schedules.

## C. Measures

- M1. The Balancing Authority shall demonstrate that it can follow its procedures, processes, or use its tools for approving and implementing interchange as identified in Requirement 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:** 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. Balancing Authority Certification SAR requested — October 7, 2002.
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Anticipated Actions	Anticipated Date
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**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:** **Balancing Authority Certification — Information Dissemination**
2. **Number:** ORG-016-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has the capability to provide data and information to its Reliability Coordinator.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority shall have procedures, processes, or tools to provide information and data to its Reliability Coordinator in accordance with the required Reliability Coordinator's specifications that addresses:
  - R1.1. Balancing Integrated Operational Plan and updates
  - R1.2. Real-time operational information and data
  - R1.3. Interchange schedule interruptions due to generation or load interruptions within its Balancing Authority Area

## C. Measures

- M1. The Balancing Authority shall demonstrate that it can follow its procedures, processes or use its tools to provide the information and data to its Reliability Coordinator as identified in Requirement R1.

## 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:** 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. Balancing Authority Certification SAR requested — October 7, 2002.
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## A. Introduction

1. **Title:** **Balancing Authority Certification — Emergency Operations**
2. **Number:** ORG-017-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has the capability for continued operations during an Emergency.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority shall have procedures or processes that define its responsibilities, authority, and actions for responding, communicating status, and coordinating operations during an Emergency. The procedures or processes shall address when the Balancing Authority:
  - R1.1. Is unable to meet its resource-demand balance requirements.
  - R1.2. Is unable to meet its Interconnected Operation Services requirements.
  - R1.3. Has experienced an actual or suspected act of sabotage that affects a physical or cyber asset.
  - R1.4. Has been directed by its Reliability Coordinator to take actions to maintain the reliability of the interconnection.
  - R1.5. Experienced a partial or total bulk electric system shutdown.

## C. Measures

- M1. The Balancing Authority shall demonstrate that it can follow its procedures, processes, or use its tools to operate during emergency conditions as identified in Requirement R1.

## 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:** 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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**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:** **Balancing Authority Certification — Loss of Control Center Functionality**
2. **Number:** ORG-018-1
3. **Purpose:** To ensure that the entity seeking certification as a Balancing Authority has the capability for continued operations during loss of its control center functionality.
4. **Applicability**
  - 4.1. Entity seeking certification as a Balancing Authority
5. **(Proposed) Effective Date:** April 1, 2006

## B. Requirements

- R1. The Balancing Authority 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<sup>1</sup>
  - Loss of Energy/Generation Management System critical functionality
  - Loss of critical Supervisory Control and Data Acquisition system data
  - Loss of control center support functions, i.e. air conditioning, power, water
- R2. The Balancing Authority shall have procedures or processes and tool(s) to operate in accordance with NERC Standards for a Balancing Authority during the conditions identified in Requirement R1 and shall address the following:
  - R2.1. Developing a Balancing Integrated Operational Plan for its Balancing Authority Area.
  - R2.2. Determining the requirements and amounts for, and the deployment of, generation and demand balance Interconnected Operation Services.
  - R2.3. Implementing the Balancing Integrated Operational Plan including modification to reflect changes.
  - R2.4. Monitoring resource availabilities and capabilities in real-time.
  - R2.5. Calculating and monitoring the Area Control Error of its Balancing Authority Area.
  - R2.6. Monitoring its metered boundaries in real-time.
  - R2.7. Monitoring real-time status and output of resources used for generation and demand balance Interconnected Operation Services.
  - R2.8. Directing actions of resources within its Balancing Authority Area.
  - R2.9. Obtaining and implementing interchange schedules.
  - R2.10. Validating the accuracy of Area Control Error components and implementing corrective actions.

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

- R2.11.** Using the interchange approval process that includes the determination that the resource ramp capability meets the projected interchange ramp.
- R2.12.** Implementing Interchange Schedules.
- R2.13.** Providing its Reliability Coordinator with:
  - R2.13.1.** The Balancing Integrated Operational Plan
  - R2.13.2.** Updates to the Balancing Integrated Operational Plan
  - R2.13.3.** Real-time operational information and data
  - R2.13.4.** Interchange Schedule interruptions due to generation or load interruptions
- R2.14.** Calculating and reporting in accordance with NERC Standards applicable to the Balancing Authority function.
- R2.15.** Providing data retention that supports the reporting requirements of NERC standards.
- R2.16.** Reporting and responding to an actual or suspected act of sabotage that affects a physical or cyber asset.
- R2.17.** Responding to the directions from its Reliability Coordinator to take actions to maintain the reliability of the interconnection.
- R2.18.** Maintaining its responsibilities, authority, and actions for responding, communicating status, and coordinating operations following a partial or total bulk electric system shutdown.

### **C. Measures**

- M1.** The Balancing Authority 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
  - 1.1. Compliance Monitoring Period and Reset Timeframe**

None
  - 1.2. Data Retention**

None
  - 1.3. 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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