

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. The SAR for Project 2007-18, Reliability Based Controls, was posted for a 30-day formal comment period on May 15, 2007.
2. A revised SAR for Project 2007-05, Reliability Based Controls, was posted for a second 30-day formal comment period on September 10, 2007.
3. The Standards Committee approved Project 2007-18, Reliability Based Controls, to be moved to standard drafting on December 11, 2007.
4. The SAR for Project 2007-05, Balancing Authority Controls, was posted for a 30-day formal comment period on July 3, 2007.
5. The Standards Committee approved Project 2007-05, Balancing Authority Controls, to be moved to standard drafting on January 18, 2008.
6. The Standards Committee approved the merger of Project 2007-05, Balancing Authority Controls, and Project 2007-18, Reliability-based Control, as Project 2010-14, Balancing Authority Reliability-based Controls on July 28, 2010.
7. The NERC Standards Committee approved breaking Project 2010-14, Balancing Authority Reliability-based Controls, into two phases and moving Phase 1 (Project 2010-14.1, Balancing Authority Reliability-based Controls – Reserves) into formal standards development on July 13, 2011.

Proposed Action Plan and Description of Current Draft:

This is the first posting of the proposed new standard. This proposed draft standard will be posted for a 30-day formal comment period beginning on June 4, 2012 through July 3, 2012.

Future Development Plan:

Anticipated Actions	Anticipated Date
1. Second posting	October/November 2012
2. Initial Ballot	November 2012
3. Third posting	March/April 2013
4. Successive ballot	May 2013
5. Recirculation Ballot	August 2013

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6. NERC BOT adoption.	September 2013
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Definitions of Terms Used in Standard

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

Balancing Contingency Event: Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by less than one minute.

- A. Sudden Loss of Generation:
 - a. Due to
 - i. Unit tripping,
 - ii. Loss of generator Interconnection Facilities resulting in isolation of the generator from the Bulk Electric System or from the responsible entity's electric system, or
 - iii. Sudden unplanned outage of transmission Facilities;
 - b. And, that causes an unexpected change to the responsible entity's ACE;
 - c. Provided, however, that normal, recurring operating characteristics of a unit do not constitute sudden or unanticipated losses and may not be subject to this definition.
- B. Sudden Loss of Non-Interruptible Import:
 - a. A sudden loss of a non-interruptible import, due to forced outage of transmission equipment that causes an unexpected change to the responsible entity's ACE.
- C. Unexpected Failure of Generation to Maintain or Increase:
 - a. Due to
 - i. Inability to start a unit the responsible entity planned to bring online at that time (for reasons other than lack of fuel), or
 - ii. Internal plant equipment problems that force the generator to be ramped down or taken offline;
 - b. And that, even if not an immediate cause of an unexpected change to the responsible entity's ACE, will, in the responsible entity's judgment, leave the responsible entity unable to maintain its ACE following the failure, unless it deploys Contingency Reserve.

Most Severe Single Contingency (MSSC): The Balancing Contingency Event that would result in the greatest loss (measured in MW) of generation output used by the Balancing Authority, or the greatest loss of activated Direct Control Load Management used by the Balancing Authority, to meet firm system load and non-interruptible export obligation (excluding export obligation for which Contingency Reserve obligations are being met by the sink Balancing Authority).

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Reportable Contingency Event: Any Balancing Contingency Event greater than or equal to the lesser amount of 80 percent of the Balancing Authority's Most Severe Single Contingency or 500 MW.

Contingency Event Recovery Period: A period not exceeding 15 minutes following the start of the Balancing Contingency Event. The start of the Balancing Contingency Event is the point in time where the first change in MW is observed due to the event.

Contingency Reserve Restoration Period: A period not exceeding 90 minutes following the end of the Contingency Event Recovery Period, during which the amount of Contingency Reserve deployed to recover from a Balancing Contingency Event is to be restored.

Pre-Reportable Contingency Event ACE Value: The value of ACE immediately prior to a Reportable Contingency Event when there are no previous Reportable Contingency Events for which the Contingency Event Recovery Period is not yet completed,

or

The value of ACE that the Balancing Authority or Reserve Sharing Group must attain to fully meet its ACE recovery requirement with respect to the immediately previous Reportable Contingency Event for which the Contingency Event Recovery Period is not yet completed.

A. Introduction

- 1. Title:** Contingency Reserve for Recovery From a Balancing Contingency Event
- 2. Number:** BAL-002-2
- 3. Purpose:** To ensure the Balancing Authority or Reserve Sharing Group utilizes its Contingency Reserve to balance resources and demand and return the Balancing Authority's or Reserve Sharing Group's Area Control Error to defined values (subject to applicable limits) following a Reportable Contingency Event.
- 4. Applicability:**
 - 4.1.** Balancing Authority
 - 4.2.** Reserve Sharing Group
- 5. (Proposed) Effective Date:**
 - 5.1.** First day of the first calendar quarter that is six months beyond the date that this standard is approved by applicable regulatory authorities, or in those jurisdictions where regulatory approval is not required, the standard becomes effective the first day of the first calendar quarter that is six months beyond the date this standard is approved by the NERC Board of Trustees', or as otherwise made pursuant to the laws applicable to such ERO governmental authorities.

B. Requirements

- R1.** Each Balancing Authority or Reserve Sharing Group experiencing a Reportable Contingency Event shall implement its Contingency Reserve plan so that the Balancing Authority or Reserve Sharing Group can demonstrate that, within the Contingency Event Recovery Period: [*Violation Risk Factor:*] [*Time Horizon:*]
 - The Balancing Authority or Reserve Sharing Group returned its ACE to:
 - Zero, less the sum of the magnitudes of all subsequent Balancing Contingency Events that occur within the Contingency Event Recovery Period, if its ACE just prior to the Reportable Contingency Event was positive or equal to zero, Or
 - Its Pre-Reportable Contingency Event ACE Value, less the sum of the magnitudes of all subsequent Balancing Contingency Events that occur within the Contingency Event Recovery Period, if its ACE just prior to the Reportable Contingency Event was negative.
 - Provided, however, that in either of the foregoing cases, if the Reportable Contingency Event (individually or when combined with any previous Balancing Contingency Events that have not completed their Contingency Reserve Restoration Periods) exceeded the Balancing Authority's or Reserve Sharing Group's Most Severe Single Contingency (MSSC), then the Balancing Authority or Reserve Sharing Group need only demonstrate ACE recovery of at least equal to

its MSSC, less the sum of the magnitudes of all Previous Balancing Contingency Events that have not completed their Contingency Reserve Restoration Periods.

C. Measures

- M1.** Each Balancing Authority or Reserve Sharing Group shall have, and provide upon request, evidence; such as computer logs or operator logs, with date and time of occurrence to show compliance with Requirement R1.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

The regional entity is the Compliance Enforcement Authority, except where the responsible entity works for the regional entity. Where the responsible entity works for the regional entity, the regional entity will establish an agreement with the ERO, or another entity approved by the ERO and FERC (i.e., another regional entity), to be responsible for compliance enforcement.

1.2. Data Retention

The following evidence retention periods identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the Compliance Enforcement Authority may ask an entity to provide other evidence to show that it was compliant for the full-time period since the last audit.

The Balancing Authority or Reserve Sharing Group shall retain data or evidence to show compliance for the current year, plus three calendar years, unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation.

If a Balancing Authority or Reserve Sharing Group is found noncompliant, it shall keep information related to the noncompliance until found compliant, or for the time period specified above, whichever is longer.

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

1.3. Compliance Monitoring and Assessment Processes

- Compliance Audits
- Self-Certifications
- Spot Checking

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Compliance Investigations

Self-Reporting

Complaints

1.4. Additional Compliance Information

A Balancing Authority may elect to fulfill its Contingency Reserve obligations by participating as a member of a Reserve Sharing Group.

A Balancing Authority or Reserve Sharing Group may use Contingency Reserve for any Balancing Contingency Event.

A Balancing Authority or Reserve Sharing Group may optionally reduce the 80 percent threshold, upon written notification to the Regional Entity.

2. Violation Severity Levels

R #	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1				
R2				
R3				
R4				

E. Regional Variances

None.

F. Associated Documents

BAL-002-2 Contingency Reserve for Recovery from a Balancing Contingency Event
Background Document

Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New
0	August 8, 2005	Removed "Proposed" from Effective Date	Errata
0	February 14, 2006	Revised graph on page 3, "10 min." to "Recovery time." Removed fourth bullet.	Errata
2		NERC BOT Adoption	Complete revision

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