

# Implementation Plan

## Project 2010-14.1 Balancing Authority Reliability-based Controls - Reserves

### Implementation Plan for BAL-001-1 – Real Power Balancing Control Performance

#### **Approvals Required**

BAL-001-1 – Real Power Balancing Control Performance

#### **Prerequisite Approvals**

None

#### **Revisions to Glossary Terms**

The following definitions shall become effective when BAL-001-1 becomes effective:

**Balancing Authority ACE Limit (BAAL):** The limit beyond which a Balancing Authority contributes more than its share of Interconnection frequency control reliability risk. This definition applies to a high limit (BAAL<sub>High</sub>) and a low limit (BAAL<sub>Low</sub>).

**Reporting ACE:** The scan rate values of a Balancing Authority's Area Control Error (ACE) measured in MW, as defined in BAL-001, which includes the difference between the Balancing Authority's actual Interchange and its scheduled Interchange, plus its Frequency Bias obligation, plus any known meter error.

**Interconnection:** When capitalized, any one of the four major electric system networks in North America: Eastern, Western, Texas and Quebec.

The existing definition of Interconnection should be retired at midnight of the day immediately prior to the effective date of BAL-001-1, in the jurisdiction in which the new standard is becoming effective.

The proposed revised definition for "Interconnection" is incorporated in the NERC approved standards, detailed in Attachment 1 of this document.

***Applicable Entities***

Balancing Authority

***Applicable Facilities***

N/A

***Conforming Changes to Other Standards***

None

***Effective Dates***

BAL-001-1 shall become effective as follows:

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 effective pursuant to the laws applicable to such ERO governmental authorities.

***Justification***

The six-month period for implementation of BAL-001-1 will provide ample time for Balancing Authorities to make necessary modifications to existing software programs to perform the BAAL calculations for compliance.

***Retirements***

BAL-001-0.1a – Real Power Balancing Control Performance should be retired at midnight of the day immediately prior to the effective date of BAL-001-1 in the particular jurisdiction in which the new standard is becoming effective.

**Attachment 1**  
**Approved Standards Incorporating the Term “Interconnection”**

BAL-001-0.1a — Real Power Balancing Control Performance  
BAL-002-0 — Disturbance Control Performance  
BAL-002-1 — Disturbance Control Performance  
BAL-003-0.1b — Frequency Response and Bias  
BAL-004-0 — Time Error Correction  
BAL-004-1 — Time Error Correction  
BAL-004-WECC-01 — Automatic Time Error Correction  
BAL-005-0.1b — Automatic Generation Control  
BAL-006-2 — Inadvertent Interchange  
WECC Standard BAL-STD-002-1 - Operating Reserves  
CIP-001-1a — Sabotage Reporting  
CIP-001-2a — Sabotage Reporting  
CIP-002-4 — Cyber Security — Critical Cyber Asset Identification  
CIP-005-3a — Cyber Security — Electronic Security Perimeter(s)  
COM-001-1.1 — Telecommunications  
EOP-001-2b — Emergency Operations Planning  
EOP-002-2.1 — Capacity and Energy Emergencies  
EOP-002-3 — Capacity and Energy Emergencies  
EOP-003-1 — Load Shedding Plans  
EOP-003-2 — Load Shedding Plans  
EOP-004-1 — Disturbance Reporting  
EOP-005-1 — System Restoration Plans  
EOP-005-2 — System Restoration from Blackstart Resources  
EOP-006-1 — Reliability Coordination — System Restoration  
EOP-006-2 — System Restoration Coordination  
FAC-008-3 — Facility Ratings  
FAC-010-2 — System Operating Limits Methodology for the Planning Horizon  
FAC-011-2 — System Operating Limits Methodology for the Operations Horizon  
INT-005-3 — Interchange Authority Distributes Arranged Interchange  
INT-006-3 — Response to Interchange Authority  
INT-008-3 — Interchange Authority Distributes Status  
IRO-001-1.1 — Reliability Coordination — Responsibilities and Authorities  
IRO-001-2 — Reliability Coordination — Responsibilities and Authorities  
IRO-002-1 — Reliability Coordination — Facilities  
IRO-002-2 — Reliability Coordination — Facilities  
IRO-004-1 — Reliability Coordination — Operations Planning

IRO-005-2a — Reliability Coordination — Current Day Operations  
IRO-005-3a — Reliability Coordination — Current Day Operations  
IRO-006-5 — Reliability Coordination — Transmission Loading Relief  
IRO-006-EAST-1 — TLR Procedure for the Eastern Interconnection  
IRO-014-1 — Procedures, Processes, or Plans to Support Coordination Between Reliability Coordinators  
IRO-014-2 — Coordination Among Reliability Coordinators  
IRO-015-1 — Notifications and Information Exchange Between Reliability Coordinators  
IRO-016-1 — Coordination of Real-time Activities Between Reliability Coordinators  
MOD-010-0 — Steady-State Data for Transmission System Modeling and Simulation  
MOD-011-0 — Regional Steady-State Data Requirements and Reporting Procedures  
MOD-012-0 — Dynamics Data for Transmission System Modeling and Simulation  
MOD-013-1 — RRO Dynamics Data Requirements and Reporting Procedures  
MOD-014-0 — Development of Interconnection-Specific Steady State System Models  
MOD-015-0 — Development of Interconnection-Specific Dynamics System Models  
MOD-015-0.1 — Development of Interconnection-Specific Dynamics System Models  
MOD-030-02 — Flowgate Methodology  
PRC-001-1 — System Protection Coordination  
PRC-006-1 — Automatic Underfrequency Load Shedding  
TOP-002-2a — Normal Operations Planning  
TOP-004-2 — Transmission Operations  
TOP-005-1.1a — Operational Reliability Information  
TOP-005-2a — Operational Reliability Information  
TOP-008-1 — Response to Transmission Limit Violations  
VAR-001-1 — Voltage and Reactive Control  
VAR-001-2 — Voltage and Reactive Control  
VAR-002-1.1b — Generator Operation for Maintaining Network Voltage Schedules