

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

BAL-013-1 – Large Loss of Load Performance Standard Background Document

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RELIABILITY | ACCOUNTABILITY



3353 Peachtree Road NE
Suite 600, North Tower
Atlanta, GA 30326
404-446-2560 | www.nerc.com

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Introduction

Since loss of large loss of load occurs and impacts all Balancing Authorities throughout an Interconnection, BAL-013-1 was created to specify recovery actions and associated timeframes. This document provides background on the development and implementation of BAL-013-1, Large Loss of Load Performance. The intent is to explain the rationale and considerations for the requirements and their associated compliance information.

Background and Rationale by Requirement

Requirement 1

R1. The Responsible Entity shall correct its ACE following each Large Loss of Load Event within 15 minutes of the event resulting from an amount of lost load equal to the lesser of the Responsible Entity's Most Severe Single Contingency or 500 MW, as follows:

- If the Responsible Entity's ACE value just prior to a Large Loss of Load Event is negative or equal to zero, the Responsible Entity shall return its ACE to zero.
- If the Responsible Entity's ACE value just prior to a Large Loss of Load Event is positive, the Responsible Entity shall return its ACE to its pre-event value.

Background and Rationale

Requirement R1 is intended to provide the information needed to determine if the BA or Reserve Sharing Group corrected its ACE in recovering from a Large Loss of Load Event, and if they did so within the 15-minute time period allowed by the requirement.

The SDT has mirrored the reporting threshold from BAL-002-2. This will allow for consistent monitoring of system performance since a single threshold will be used for all Contingencies.

The 15 minutes for recovery was chosen to be consistent with the 15-minute Disturbance recovery period for BAL-002, Loss of Resources. The 15-minute recovery period is one that has long been used in BAL-002, and goes back to initial NERC policy.

As the load lost in an event may not all occur at the same time, a threshold of load loss for determining the event start time is needed. To provide system operators with a fair opportunity to determine if the load loss is large enough to fall under the scope of BAL-013, the event start time has been chosen to be the point in time at which the event resulting from an amount of lost load equals the lesser of the Responsible Entity's Most Severe Single Contingency or 500 MW.