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Procedure: Perform Voltage Reduction Audit & Administration

Process Name: Monitor Resource Performance

Procedure Number: RTMKTS.0180.0070

Revision Number: 23

Procedure Owner: Jon Gravelin

Effective Date: May 1, 2025

Approved By: Director, Operations

Valid Through: May 1, 2027

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## 1. Objective

The objective of this procedure is to confirm the voltage reduction test will result in a minimum load reduction of 1.5% of total system load when implemented in Real-Time. It will also be used to assess compliance with voltage reduction requirements of ISO New England Operating Procedure No. 13 - Standards for Voltage Reduction and Load Shedding Capability (OP-13).

## 2. Background

ISO requires a voltage reduction test & audit to verify voltage reduction capability for each Market Participant (MP)/Transmission Owner (TO) that has control over transmission/distribution facilities.

OP-13 establishes standards for the testing the voltage reduction capability of MPs/TOs that have control over transmission/distribution facilities. These standards require all MPs/TOs with control over any transmission/distribution facility to have the capability to reduce load demand when directed to do so to maintain the reliability of the Bulk Electric System (BES). These MPs/TOs are expected to comply with these established standards. ISO and the Local Control Centers (LCCs) use the capability to reduce load, as necessary, to maintain system reliability. This action may be utilized during generating capacity deficiencies, energy deficiencies, and other emergency operating conditions as described in ISO New England Operating Procedure No. 4 - Action During a Capacity Deficiency (OP-4) and ISO New England Operating Procedure No. 7 - Action in an Emergency (OP-7).

## 3. Responsibilities

### NOTE

Any North American Electric Reliability Corporation (NERC) Certified Control Room System Operator, certified at the Reliability Coordinator (RC) level, has the authority to take action(s) required to comply with NERC Reliability Standards.

1. The Sr. Manager, Control Room Operations is responsible for the following:
  - A. Coordinating the voltage reduction test & audit with ISO System Operations & Market Administration and Master/Local Control Center (M/LCC) Heads.
  - B. Collecting and analyzing the voltage reduction test results for each individual MP/TO that has control over transmission/distribution facilities.
  - C. Reporting non-compliant MP/TO voltage reduction test results to the appropriate Committees, TOs, M/LCC Heads and ISO management.



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- D. Report on the estimated New England load relief from the voltage reduction tests to the Reliability Committee and M/LCC Heads.
- 2. The Administrative Assistant, System Operations and Market Administration, is responsible for issuing the voltage reduction test notifications and forms that require completion, to the applicable MPs/TOs.
- 3. The Operations Analysis & Integration (OAI) Analyst shall provide the Lead Compliance Analyst, ROC the New England estimated load relief from the less than ten (10) minute voltage reduction test.

#### **4. Controls**

None.



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## 5. Instructions

### 5.1 Establish and Communicate Testing Material

1. The Sr. Manager, Control Room Operations and M/LCC Heads shall establish the voltage reduction test date.
2. At least four (4) weeks in advance of the scheduled test date, the Administrative Assistant, System Operations and Market Administration, shall email the following to the MP/TO to be used for communication about the voltage reduction test:
  - ISO New England System Operations and Market Administration memo stating applicable testing and reporting details.
  - Attachment B - ISO New England Voltage Reduction Test Participant Questionnaire

**NOTE**

The purpose of Attachment B - ISO New England the Voltage Reduction Test Participant Questionnaire is to document the voltage reduction capability demonstrated by each applicable MP/TO during the test.

3. The Administrative Assistant, System Operations and Market Administration, shall notify the following of the ISO New England Voltage Reduction Test by email:
  - ISO personnel
  - M/LCC Heads
  - M/LCC Trainers
  - Appropriate Committees



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## 5.2 Initiate Voltage Reduction Test

### NOTE

CROP.44001 Perform a Voltage Reduction Test contains instructions for Control Room Operators to perform the voltage reduction test.

## 5.3 Analysis and Reporting Test Data

1. The Sr. Manager, Control Room Operations, shall verify Attachment B - ISO New England Voltage Reduction Test Participant Questionnaire sheets (or similar form) is submitted by each applicable MP/TO and analyze the results from each MP/TO to determine compliance with applicable OP-13 requirements.
2. The Sr. Manager, Control Room Operations, shall report non-compliant MP/TO test results to the appropriate Committees, TOs, M/LCC Heads and ISO management.
3. The OAI Analyst shall provide the Lead Compliance Analyst, ROC the New England estimated load relief from the less than ten (10) minute voltage reduction test.
4. The Sr. Manager, Control Room Operations, shall report on the estimated New England load relief from the Voltage Reduction Tests to Reliability Committee and the M/LCC Heads.



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## 6. Performance Measures

This procedure is competently performed when voltage reduction testing and reporting occurs as scheduled

## 7. References

ISO New England Operating Procedure No. 4 - Action During a Capacity Deficiency (OP-4)


ISO New England Operating Procedure No. 7 - Action in an Emergency (OP-7)

ISO New England Operating Procedure No. 13 - Standards for Voltage Reduction and Load Shedding Capability (OP-13)

CROP.44001 Perform a Voltage Reduction Test

## 8. Revision History


Rev. No.	Date	Reason	Contact
--	04/18/18	For previous revision history, refer to Rev 20 available through Ask ISO	Dean LaForest
21	04/18/18	Biennial review completed by procedure owner; Added required corporate document identity to all page footers; Made minor editorial changes;	Steve Gould
21.1	04/18/18	Minor Revision to correct typo in the corporate identity on all pages except for page 1. No content changes made only the typo correction..	Steve Gould
21.2	02/26/20	Periodic review performed requiring no changes	Steve Gould
21.3	02/4/22	Periodic review performed requiring no changes	Steve Gould
22	10/17/22	Added new responsibilities for OAI; Modified responsibilities for ROC; Updated Procedure Owner.	Jon Gravelin
22.1	10/16/24	Biennial review performed by procedure owner requiring no changes.	Jon Gravelin
23	05/01/25	Periodic review performed by procedure owner; Procedure revised for responsibilities and process updates; Retired Attachment A; Replaced Attachment B with link to new spreadsheet.	Jon Gravelin

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## 9. Attachments

Attachment A - RETIRED

Attachment B - ISO New England Voltage Reduction Test Participant Questionnaire

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## Attachment B - ISO New England Voltage Reduction Test Participant Questionnaire

Participants can access the Voltage Reduction Test Participant Questionnaire at the following link: [Attachment B - ISO New England Voltage Reduction Test Participant Questionnaire](#)