




System Operating Procedures

SOP-OUTSCH.0025.0010

Update Outages Impacted by System Changes

Effective Date: March 27, 2009
Revision No. 7

	© ISO New England Inc. 2009	Procedure: Update Outages Impacted by System Changes
	Process Name: Maintain Outage Scheduler	
	Procedure Number: OUTSCH.0025.0010	Revision Number: 7
	Procedure Owner: Mike Courchesne	Effective Date: March 27, 2009
	Approved By: Director, Operations Support Services	Valid Through: March 27, 2011

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1. Objective

The objective of this procedure is to update the scheduled outages in the outage scheduling software model to reflect changes in system configuration. This procedure documents the responsibilities of ISO New England (ISO) staff.


Compliance with this procedure is necessary to ensure the reliable operation of the power system in accordance with ISO New England Operating Procedure No. 3 – Transmission Outage Scheduling (OP-3), ISO New England Operating Procedure No. 5 – Generator and Dispatchable Asset Related Demand Maintenance and Outage Scheduling (OP-5), and ISO New England Operating Procedure No. 19 – Transmission Operations (OP-19). This procedure does not in any way change the intent of OP-3, OP-5, or OP-19 but rather is intended to clarify some of the responsibilities delegated to ISO staff by those procedures. This procedure also supports the cost-effective operation of the power system. Activities in this procedure can affect market operation and settlement.

2. Background

The outage scheduling software program at any given time contains numerous outages. When the EMS Power System Model is updated changes in system configuration may impact some of these outages. Outages that are impacted must be appropriately redefined to reflect the new system configuration.

Additionally, when a new EMS Power System Model includes new equipment it is typically necessary to initially outage the equipment until such time as it actually goes into service.

Proper modeling of system outages in accordance with this procedure is necessary to insure reliable and cost effective operation of the power system following updates to the EMS Power System Model.

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3. Responsibilities

1. The Supervisor, Short Term Outages in coordination with the Manager, Power System Model Management and Supervisor, Day Ahead & Related Markets are responsible for executing this procedure.

4. Controls

- The outage scheduling software reflects the model running in the real-time system within the same business day of the completion of the “Install EMS Power System Model” process


5. Instructions

5.1 Procedure Activation and Timing

1. This procedure shall be performed following notification of the completion of SYSMOD.0060.0000 Install EMS Power System Model process.
2. The outage Scheduling software shall be modified to reflect the model running in the real-time system within the same business day of the completion of the “Install EMS Power System Model” process.

5.2 Update Outages

1. The Supervisor, Short Term Outages and Supervisor, Day Ahead & Related Markets shall ensure that the following are performed:
 - A. Review Release Notes associated with the new EMS Power System Model.
 - B. Print out contents of Outage Difference file that was generated by EMS Support personnel as part of the Build EMS Power System Model process.
 - C. Utilizing the Release Notes and the Outage Difference file identify and crosscheck all changes to system configuration.


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- D. For each identified change to system configuration:
- (1) Review all existing Outages in the Outage Scheduler and identify the need for modification:
 - a. Additional devices associated with an outage.
 - b. Different devices associated with an outage.
 - c. Different outages.
- E. When new equipment is included in an EMS Power System Model and the equipment is not in-service, determine if there is a need to create an Outage for the equipment for the period prior to it going in-service.
- F. Update Outage records as necessary:
- (1) Modify or delete existing Outages as necessary.
 - (2) Create new Outages as necessary.
- G. Determine if changes involve the addition to or deletion of NPCC Critical Facilities as well as Major Transmission Elements. With each EMS model update ensure that the Outage Scheduling Software correctly denotes NPCC Critical Facilities and MTE characteristics.
2. The Supervisor, Short Term Outages shall coordinate with the Manager, Power System Model Management and Supervisor, Day Ahead & Related Markets to:
- A. Confirm successful update of OS database.
 - B. Confirm no loss of existing outages.
 - C. Confirm no loss of OS functionality.

6. Performance Measures

This procedure is deemed to be properly followed as evidenced by the following:

- Goal for Corporate performance in CPS1, CPS2 and DCS (Disturbance Control Standard) compliance met

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7. References

ISO New England Operating Procedure No. 3 – Transmission Outage Scheduling (OP-3)

ISO New England Operating Procedure No. 5 – Generator and Dispatchable Asset Related Demand Maintenance and Outage Scheduling (OP-5)

ISO New England Operating Procedure No. 19 – Transmission Operations (OP-19)

SYSMOD.0060.0000 - Install EMS Power System Model

8. Revision History

Rev. No.	Date	Reason	Contact
A	09/27/02	Initial draft procedure	
B	10/16/02	Revised to reflect comments	
0	02/12/03	Initial procedure for SMD	Dave Bertagnolli
1	6/16/03	Update procedure to current practice	Dave Bertagnolli
2	11/13/03	Modified Controls and Performance Measures to align with ISO 9001 standards	Dave Bertagnolli
3	02/01/05	Updated SOP for RTO terminology	Pete Harris
4	02/16/05	Update to include revising NPCC Critical Facilities listing in OS when EMS is updated	Pete Harris
5	06/05/06	Updated for annual review and revised responsible parties	Pete Harris
6	09/14/06	Revised for ASM Phase 2	Pete Harris
7	03/27/09	Updated for annual review and revised responsible parties	Mike Courchesne

9. Attachments

None.