




System Operating Procedures

SOP-RTMKTS.0050.0020

Develop and Communicate the Morning Report

Effective Date: April 19, 2011
Revision No. 14

	© ISO New England Inc. 2011	Procedure: Develop and Communicate the Morning Report
	Process Name: Perform Reserve Adequacy Commitment	
	Procedure Number: RTMKTS.0050.0020	Revision Number: 14
	Procedure Owner: Steve Gould	Effective Date: April 19, 2011
	Approved By: Director, Operations	Valid Through: January 31, 2013

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	© ISO New England Inc. 2011	Procedure: Develop and Communicate the Morning Report
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1. Objective

The objective of this procedure is to define the process for developing the Morning Report, which is intended to provide the Local Control Centers (LCCs), Market Participants and others the best estimate of expected capacity available for peak-hour load and reserve requirements.

2. Background


The Senior System Operator prepares and transmits the Morning Report to the LCCs and to the ISO New England (ISO) Web site. This report describes expected capacity conditions over the peak hour. The report updates and communicates key operating parameters that could affect system reliability.

3. Responsibilities

1. The Senior System Operator is responsible for creating the Morning Report. The Preliminary Morning Report should be prepared and transmitted by 0600. By 0900, the Senior System Operator is responsible for issuing an accurate Morning Report that reflects revised load predictions and updates on changes in capacity.
2. The Senior System Operator is responsible for issuing the Morning Report and updates to the LCCs and to the Internet Web site for Market Participants.
3. The Forecaster is responsible for assisting the Senior System Operator by providing input for capacity analysis with results from Security Constrained Resource Adequacy (SCRA) updates.

4. Controls

- Only Personnel authorized by the Manager, Control Room Operations shall be allowed to create and issue the Morning Report
- Morning Report is created using designated software

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5. Instructions

5.1 General Instructions


NOTE

The Senior System Operator populates certain data fields manually while other values in the report are calculated automatically within the program. Where applicable, the Senior System Operator should use the Capacity Analysis data provided by the Forecaster for verification.


1. Select the type of report being created (Preliminary/Morning/Special).
2. Date and time when the report was created.
3. From Operator Information System (OIS) log 7, enter the peak load information from the previous day.
4. Interchange Information: Enter the information for the following: NYISO AC ties, NYISO NNC, NYISO CSC: NB ties; and Phase 2 and Highgate ties.
 - Transfer Limit – The maximum transfer capability on the peak hour. Obtained from the Scheduling Parameters page in Transmart, unless a more conservative limit is applied and documented in Transmart
 - Scheduled Contracts – The scheduled peak hour energy transfer shown on the most recent Current Operating Plan (COP)
 - Expected Contracts – The expected peak hour energy transfer based on expected system conditions
5. Operable Capacity Analysis:
 - A. Capacity Supply Obligation (CSO): The sum of all ISO dispatchable Generators CSO values. Obtained from the CSO line of the Capacity Analysis (CAPSYS) application in the Energy Management System (EMS).
 - B. Capacity Additions Eco Max bid > CSO: The sum of all Generator offers for Eco Max in excess of the Generators CSO. Obtained from the Capacity Additions drop down menu of the CAPSYS application in EMS.
 - C. Pre-OP-4 Dispatchable Loads.

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- D. Generation Outages and Reductions: The sum of capability of all generation scheduled out of service (OOS), forced OOS or reduced for the day, as known at the time the Morning Report was developed for the peak hour of the day. Obtained from the Off-line Unavailable Units, On-line Reductions and Offline Reductions drop down menus of the CAPSYS application in EMS.
- E. Uncommitted Available Generation (non fast start): The sum of all generation that cannot be brought online to meet the peak load projection due to startup requirements.
- F. Capacity Deliveries Net Purchases = (-) Net Sales = (+): The total expected capacity transfers, by interface, at the time of the projected peak load. These values are transferred from the Expected Contracts field in section 5.1.4.
- NYISO AC ties. Net of the Imports (-) & Exports (+) with New York on the AC ties
 - NYISO NNC. Net of the Imports & Exports with New York on the Northport-Norwalk Harbor Cable
 - NYISO CSC. Net of the Imports (-) & Exports (+) with New York on the Cross Sound Cable
 - NB ties. Net of the Imports (-) & Exports (+) with New Brunswick
 - Phase 2 & Highgate ties. Net of the Imports (-) & Exports (+) with HQ
 - Net Deliveries. The sum of Net transactions with NYISO AC ties, NYISO NNC, NYISO CSC, NB ties, and Phase 2 and Highgate ties
- G. Total Available Capacity (A+B+C-D-E-F): Total available MW to meet the projected peak load demand.
- H. Peak Load Forecast for Hour X: Peak load forecast for this day as shown on the most recent COP.
- I. Total Operating Reserve Requirement: The sum of capability required covering 100% of first contingency loss within 10 minutes and 50% of second contingency loss within 30 minutes.
- J. Capacity Required: Total to meet peak load plus operating reserve requirement (H+I).

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- K. Surplus = (+) Deficiency = (-) (G-J): Capacity position projection at time of peak load.
- L. Replacement Reserve Requirement: The sum of Synchronized and Non-synchronized Reserve Capability that is fully available within thirty minutes from the time first requested excluding capability assigned to meet Operating Reserve Requirements. The requirement is currently set at 0% of New England’s second largest supply contingency but may change as needed for system reliability.
- M. Excess Commitment Surplus: Capacity projected to be available at the peak hour above Operating and Replacement Reserve Requirements.
6. Put a solid line (____) in the “Largest First Contingency” field.
 7. Size of the largest first contingency.
 8. Size of the largest second contingency.
 9. Actual 10 minute reserve: Estimate of total ten-minute reserves available at the time of projected system peak load.
 10. Actual 30 minute reserve: Estimate of total thirty-minute reserves available at the time of projected system peak load. Enter the sum of the 30 minute reserve requirement and the Excess Commitment Surplus/Deficiency. ($\frac{1}{2} 8 + M$).
 11. AMS Peak Load Exposure: Peak load exposure used for the Annual Maintenance Schedule (AMS) development for the entire week (Saturday through Sunday). Obtained from the Operable Capacity Analysis 50/50 forecast sheet for the current year. Updated on Saturday.
 12. Expected Actions of OP-4: Expected steps of OP-4 to be implemented to meet projected peak load.
 - Expected Capacity from OP-4 Actions: Expected MW available, from the OP-4 steps above, which may be used to meet the projected peak load
 13. Weather Forecast Summary used by the Forecaster to update the COP for the peak hour.
 - Boston: Boston weather forecast
 - Hartford: Hartford weather forecast


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14. NYISO SAR Available. New York Simultaneous Activation of Ten-Minute Reserve (SAR); a “Yes” in this field means NYISO can provide at least 300MW of SAR to New England.
15. Expected energy from non-commercial generator unit(s) that are testing: Expected MW amount generated at peak from the non-commercial generator unit(s) that are preparing to participate in ISO markets.
16. Number of Generators committed to meet minimum Operating and Replacement Reserve requirements. Number of MW (sum of Eco Max) associated with the committed Generators.
17. Solar Magnetic Disturbance Activity.
 - Forecast: Solar Magnetic Disturbance (SMD) is forecasted: (YES) if it is
 - Alert: SMD Alert is in effect: (YES) if it is
 - Intensity: Intensity rating of the SMD activity
 - Observed SMD Activity: Note observed SMD Activity
 - SMD Actions Taken or Planned by ISO NE: Note SMD actions taken or planned
 - SMD Actions Taken or Planned by Reserve Sharing Group Reliability Coordinator Areas: Note SMD actions taken or planned

NOTE

Steps 18, 19 and 20 below are not part of the Morning Report delivered to the external ISO web site because of confidentiality issues.

18. Additional Notes of Interest. This would include, but not limited to, major transmission outages, system interconnection information, highlights of previous day operations and any general information.
19. Major Generators Out of Service (100 MW or more). List the CSO MW value. If the Generator being Out of Service was planned, list the letter “K” (for Known) in the K/UP column, if it was not planned, list the letters “UP” (for UnPlanned).
20. Major Generator Reductions (50 MW or more). List the amount of reduction from the CSO MW value. If the Generator reduction was planned, list the letter “K” (for Known) in the K/UP column, if it was not planned, list the letters “UP” (for UnPlanned).

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5.2 Delivering Morning Report

1. When data fields have been updated the Senior System Operator shall issue the Morning Report to the LCCs and post it on the ISO web sites using the software links provided by IT.
2. If problems are encountered with sending out the Morning Report notify the On-call IT personnel to resolve.


6. Performance Measures

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

- Accurate Preliminary and Morning Reports have been submitted on time

7. References

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

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8. Revision History

Rev. No.	Date	Reason	Contact
0	02/13/03	Initial procedure for SMD	Don Gates
1	06/03/03	Revise procedure for current implementation	Don Gates
2	11/16/03	Modified Controls and Performance Measures to align with ISO 9001 standards	Don Gates
3	11/23/04	Update procedure to reflect new items in the report and also reflect current practices	Don Gates
4	02/01/05	Updated SOP for RTO terminology	Steve Weaver
5	01/26/06	Added times expected for Morning Report transmittals	Steve Weaver
6	03/16/06	Clarified that items 14 and 15 of the Morning report should state the SCC MW value	Steve Weaver
7	05/30/06	Revised for Replacement reserve requirement changes	Steve Weaver
8	09/25/06	Revised for ASM Phase 2	Steve Weaver
9	01/09/07	Clerical changes made as a result of annual review	Steve Weaver
10	01/15/08	Revised to include specific information sources used for input data, editorial changes to use consistent terms, and clarify step statements.	Steve Weaver
11	03/17/09	Periodic review performed	Steve Weaver
12	06/01/10	Global defined acronyms, clarified use of term Resource as Generator, replaced Control Area with Reliability Coordinator Area; Updated for change from SCC to CSO as required for FCM conformance	Steve Weaver
13	01/31/11	Biennial review by procedure owner; Updated Header copyright date; Global replaced page numbers with Page X of Y format; Modified step 5.1.14	Steve Weaver
14	04/19/11	Updated Procedure Owner in the Headers; Section 5.1 NOTE added "for verification" to end of last sentence; Step 5.1.6 replaced step with new directed action.	Steve Gould

9. Attachments

None.