



Patrick Boughan
Outage Coordination

To: NEPOOL Participants

From: Patrick Boughan

Subject: 2012 Current Year Annual Maintenance Schedule

Date: February 6, 2012

Following this transmittal letter, you will find the 2012 Annual Maintenance Schedule (AMS) dated February 6, 2012, with rounded weekly planned outage totals only and an Operable Capacity Analysis (with forecasted external transactions) for February 2012 through May 31, 2012. This schedule covers the second Forward Capacity Market procurement period. A subsequent schedule will be published in February 2012 covering the third Forward Capacity Market procurement period from June 1, 2012 through May 31, 2013. *Please note that there may be generation outages due to gas pipeline outages that are currently tentatively scheduled for some weeks in late-spring, summer, and early-fall of 2012 that may further decrease the operable capacity margin.* Periodically, individual Participants will receive a copy of the AMS that depicts only the maintenance requests that they submitted to ISO New England. Participants that own entitlements in units must contact the Lead Participant to obtain the maintenance schedule for each unit.

2012 AMS - DATED February 6, 2012

The 2012 AMS - dated February 6, 2012 reflects all planned maintenance requests for February 2012-May 31, 2012 that have been submitted to the ISO through February 2, 2012. Those generator owners who have not yet submitted their anticipated maintenance schedules for Procurement Period 2012 are encouraged to do so.

2012 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for February 2012 through May 31, 2012 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of 1,500 MW for week beginning February 4th. The overall margin has become less positive since resources have been removed or repositioned since the last publication.

Peak Load Exposures (PLE)

After being adjusted for Other Demand Resources, ODR, the Peak Load Exposure (PLE) for the summer of 2011 was 26,776 MW and winter 2012 is 21,495 MW, and reflects the seasonal peak load based on the 2011 CELT Report.

Generating Unit Capabilities

Resource Capacity Supply Obligations, CSO, are based upon data as of February 2, 2012 and includes Energy Management System (EMS) assets. New unit additions are factored into the New Generation column at the appropriate points in time.

Unplanned Outage Allotment

Allowances for unplanned outages, as documented in ISO New England SOP-OUTSCH.0030.0040 range from 2,100 MW to 3,600 MW during the winter and summer months.



External Transmission

No maintenance of Hydro-Quebec Phase II or Highgate has been included in the analysis.

Weekly Operating Reserve

The weekly operating reserve is equal to one hundred percent (100%) of the largest contingency plus one-half (50%) of the second-largest contingency.

Generation at Risk Due to Gas Supply Issues

A column has been included in the Operable Capacity Analysis to reflect natural gas-fired generating capability that may not be available around the time of the winter peak load due to the unavailability of gas.

If you have any questions or comments concerning this edition of the 2012 AMS or Operable Capacity Analysis, or if you have any comments or suggestions please feel free to contact Patrick Boughan at (413) 540-4712 or Rachel Wilkins-Thurman at (413) 540-4261 or Richard Boughton at (413) 540-4752 or by email at opamoreq@iso-ne.com.

ISO-NE 2012 OPERABLE CAPACITY ANALYSIS

February 6, 2012 - 50/50 FORECAST

This analysis is a tabulation of weekly assessments shown in one single table. The information shows the operable capacity situation under assumed conditions for each week. It is not expected that the system peak will occur every week during June, July, and August.

STUDY WEEK (Week Beginning, Saturday)	OPCAP SUPPLY							LOAD OBLIGATIONS			OPCAP MARGINS				
	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL CAPACITY MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES	ALLOWANCE FOR UNPLANNED OUTAGES MW	GEN AT RISK DUE TO GAS SUP MW	NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREME NT MW	NET LOAD OBLIGATION MW	OPCAP MARGIN MW	OPCAP FROM OP4 ACTIVE REAL-TIME DR MW	OPCAP MARGIN w/ OP4 actions through OP4 Step 2 MW	OPCAP FROM OP4 REAL- TIME EMER. GEN MW	OPCAP MARGIN w/ OP4 actions through OP4 Step 6 MW
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]
2/4/2012	31,198	368	0	1,957	3,100	2,000	24,510	21,005	2,000	23,005	1,500	500	2,000	350	2,350
2/11/2012	31,144	368	0	1,744	3,100	2,000	24,670	20,976	2,000	22,976	1,690	500	2,190	350	2,540
2/18/2012	31,289	368	0	1,838	3,100	2,000	24,720	20,714	2,000	22,714	2,010	500	2,510	350	2,860
2/25/2012	31,290	368	0	1,897	3,100	0	26,660	19,726	2,000	21,726	4,930	500	5,430	350	5,780
3/3/2012	31,315	439	0	2,606	2,200	0	26,950	19,376	2,000	21,376	5,570	500	6,070	350	6,420
3/10/2012	31,374	439	0	2,579	2,200	0	27,030	19,180	2,000	21,180	5,850	500	6,350	350	6,700
3/17/2012	31,226	439	0	1,813	2,200	0	27,650	18,816	2,000	20,816	6,830	500	7,330	350	7,680
3/24/2012	31,336	439	0	3,136	2,200	0	26,440	18,250	2,000	20,250	6,190	500	6,690	350	7,040
3/31/2012	31,066	493	0	5,616	2,700	0	23,240	17,742	2,000	19,742	3,500	500	4,000	350	4,350
4/7/2012	31,760	493	0	6,455	2,700	0	23,100	17,491	2,000	19,491	3,610	500	4,110	350	4,460
4/14/2012	31,320	493	0	7,131	2,700	0	21,980	16,981	2,000	18,981	3,000	500	3,500	350	3,850
4/21/2012	31,023	493	0	5,803	2,700	0	23,010	16,716	2,000	18,716	4,290	500	4,790	350	5,140
4/28/2012	30,878	493	0	5,447	3,400	0	22,520	16,690	2,000	18,690	3,830	500	4,330	350	4,680
5/5/2012	30,833	493	0	3,686	3,400	0	24,240	20,452	2,000	22,452	1,790	500	2,290	350	2,640
5/12/2012	30,694	493	0	2,635	3,400	0	25,150	21,438	2,000	23,438	1,710	500	2,210	350	2,560
5/19/2012	30,855	493	0	1,490	3,400	0	26,460	22,354	2,000	24,354	2,110	500	2,610	350	2,960
5/26/2012	30,419	493	0	585	3,400	0	26,930	23,360	2,000	25,360	1,570	500	2,070	350	2,420

1. Available OPCAP MW based on resource Capacity Supply Obligations, CSO, from Forward Capacity Tracking System, FCTS . Does not include Settlement Only Generators.
(LTOCM application Case Output-System Results-column PreOutage CSO MW)
2. External Node Available Capacity MW based on external Capacity Supply Obligations, CSO. (LTOCM application Case Output-System Results-(EXTERNAL NODE AVAIL OPCAP MW+ ZONAL EXPORT LIMITATIONS MW)
3. New resources that have not yet acquired a CSO but will become commercial in the future.
4. Planned Outages includes outages scheduled greater than or equal to 15 days in advance.
5. Allowance for Unplanned Outages includes forced outages and maintenance outages scheduled less than 14 days in advance per ISO New England Operating Procedure No. 5 Appendix A.
(LTOCM application Case Output-System Results-UNPLANNED OUTAGES MW)
6. Generation at Risk due to Gas Supply pertains to gas fired capacity expected to be at risk during cold weather conditions. (LTOCM application Case Output-System Results-GEN RISK DUE TO GAS SUP MW)
7. Total OpCap Supply Available per the formula (1 + 2 + 3 - 4 - 5 - 6 = 7)
8. Peak Load Forecast per data included in the 2011 CELT Report adjusted for Other Demand Resources. (LTOCM application-Case Output-System Results-LOAD FORECAST MW)
9. Operating Reserve Requirement based on first largest contingency plus 1/2 the second largest contingency. (LTOCM application Case Output-System Results-OPER RESERVE REQUIREMENT MW)
10. Total Load Obligation per the formula (8 + 9 = 10)
11. Net OPCAP Supply minus Net Load Obligation (7 - 10 = 11)
12. OP 4 Action 2 Real-time Demand Response based on OP4 Appendix A. Reserve Margins and Distribution Loss Factor Gross Ups are Included.
13. OPCAP Margin taking into account Real Time Demand Response through OP4 Step 2 (11 + 12 = 13).
14. OP 4 Action 6 Emergency Generation Response without the Voltage Reduction requiring > 10 Minutes based on OP4 Appendix A. Real Time Emergency Generation is capped at 600MW.
Reserve Margins and Distribution Loss Factor Gross Ups are Included.
15. OPCAP Margin taking into account Real Time Demand Response and Real Time Emergency Generation through OP4 Step 6 (13 + 14 = 15). This does not include Emergency Energy Transactions (EETs).

New England Operable Capacity Margins
50/50 FORECAST

