



Joanne Bialas
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2012-13 Current Year Annual Maintenance Schedule

Date: October 5, 2012

Following this transmittal letter, you will find the 2012-13 Annual Maintenance Schedule (AMS) dated October 5, 2012, with rounded weekly planned outage totals only and an Operable Capacity Analysis (with forecasted external transactions) for October 2012- May 31, 2013. This schedule covers the third Forward Capacity Market procurement period.

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.

2012-13 AMS - DATED October 5, 2012

The 2012 AMS - dated October 5, 2012 reflects all planned maintenance requests for October 2012- May 31, 2013 that have been submitted to the ISO through October 3, 2012. Those generator owners who have not yet submitted their anticipated maintenance schedules for Procurement Period 2012-13 are encouraged to do so.

2012-13 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for October 2012 - May 31, 2013 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of 420 MW for week beginning May 11th. 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 winter was 21,412 MW and summer of 2012 is 26,462 MW, and reflects the seasonal peak load based on the 2012 CELT Report.

Generating Unit Capabilities

Resource Capacity Supply Obligations, CSO, are based upon data as of October 3, 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 2,700 MW to 3,400 MW during the winter and summer months.

External Transmission

Maintenance of Hydro-Quebec Phase II and Highgate are included in the analysis when the Capacity Supply Obligation (CSO) is impacted.

Weekly Operating Reserve

The weekly operating reserve is equal to one hundred twenty five percent (125%) 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 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 Rachel Wilkins-Thurman at (413) 540-4261, Joanne Bialas (413) 535-4162 or by email at opamoreq@iso-ne.com.

ISO-NE 2012-2013 OPERABLE CAPACITY ANALYSIS

October 5, 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 and Mid September.

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 REQUIREMEN T 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]
10/20/2012	33,491	507	40	9,790	2,800	0	21,450	17,949	2,375	20,324	1,130	500	1,630	350	1,980
10/27/2012	32,758	358	180	7,451	3,600	0	22,250	18,157	2,375	20,532	1,720	500	2,220	350	2,570
11/03/2012	31,655	358	180	6,715	3,600	0	21,880	18,273	2,375	20,648	1,230	500	1,730	350	2,080
11/10/2012	31,428	358	180	5,986	3,600	0	22,380	18,620	2,375	20,995	1,390	500	1,890	350	2,240
11/17/2012	31,743	358	180	3,245	3,600	0	25,440	19,363	2,375	21,738	3,700	500	4,200	350	4,550
11/24/2012	31,341	358	180	3,388	3,600	0	24,890	20,088	2,375	22,463	2,430	500	2,930	350	3,280
12/01/2012	30,686	555	250	3,216	3,200	0	25,080	20,304	2,375	22,679	2,400	500	2,900	350	3,250
12/08/2012	30,400	555	250	2,184	3,200	0	25,820	20,595	2,375	22,970	2,850	500	3,350	350	3,700
12/15/2012	30,314	555	250	1,146	3,200	0	26,770	20,607	2,375	22,982	3,790	500	4,290	350	4,640
12/22/2012	30,249	555	250	477	3,200	1,000	26,380	20,669	2,375	23,044	3,340	500	3,840	350	4,190
12/29/2012	30,218	555	250	361	3,200	1,000	26,460	20,944	2,375	23,319	3,140	500	3,640	350	3,990
01/05/2013	30,209	555	250	428	2,800	2,000	25,790	21,412	2,375	23,787	2,000	500	2,500	350	2,850
01/12/2013	30,209	555	250	440	2,800	2,000	25,770	21,412	2,375	23,787	1,980	500	2,480	350	2,830
01/19/2013	30,204	555	250	369	2,800	2,000	25,840	21,412	2,375	23,787	2,050	500	2,550	350	2,900
01/26/2013	30,204	555	250	381	2,800	2,000	25,830	21,188	2,375	23,563	2,270	500	2,770	350	3,120
02/02/2013	30,208	555	250	51	3,100	2,000	25,860	20,920	2,375	23,295	2,570	500	3,070	350	3,420
02/09/2013	30,408	555	250	1,341	3,100	2,000	24,770	20,891	2,375	23,266	1,500	500	2,000	350	2,350
02/16/2013	30,408	555	250	1,389	3,100	2,000	24,720	20,627	2,375	23,002	1,720	500	2,220	350	2,570
02/23/2013	30,415	555	250	1,372	3,100	0	26,750	19,633	2,375	22,008	4,740	500	5,240	350	5,590
03/02/2013	30,534	555	250	2,212	2,200	0	26,930	19,282	2,375	21,657	5,270	500	5,770	350	6,120
03/09/2013	30,573	555	250	2,260	2,200	0	26,920	19,085	2,375	21,460	5,460	500	5,960	350	6,310
03/16/2013	30,457	555	250	2,099	2,200	0	26,960	18,718	2,375	21,093	5,870	500	6,370	350	6,720
03/23/2013	30,573	555	250	2,517	2,200	0	26,660	18,150	2,375	20,525	6,140	500	6,640	350	6,990
03/30/2013	30,503	555	250	2,713	2,700	0	25,900	17,638	2,375	20,013	5,890	500	6,390	350	6,740
04/06/2013	30,396	555	250	2,607	2,700	0	25,890	17,385	2,375	19,760	6,130	500	6,630	350	6,980
04/13/2013	30,627	555	250	5,654	2,700	0	23,080	16,873	2,375	19,248	3,830	500	4,330	350	4,680
04/20/2013	30,495	555	250	4,173	2,700	0	24,430	16,607	2,375	18,982	5,450	500	5,950	350	6,300
04/27/2013	30,309	555	250	3,542	3,400	0	24,170	16,580	2,375	18,955	5,220	500	5,720	350	6,070
05/04/2013	30,309	555	250	3,165	3,400	0	24,550	19,998	2,375	22,373	2,180	500	2,680	350	3,030
05/11/2013	30,660	555	250	4,293	3,400	0	23,770	20,973	2,375	23,348	420	500	920	350	1,270
05/18/2013	30,216	555	250	1,638	3,400	0	25,980	21,878	2,375	24,253	1,730	500	2,230	350	2,580
05/25/2013	30,049	555	250	218	3,400	0	27,240	22,872	2,375	25,247	1,990	500	2,490	350	2,840

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 or gas pipeline maintenance outages. (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 2012 CELT Report adjusted for Other Demand Resources. (LTOCM application-Case Output-System Results-LOAD FORECAST MW)
9. Operating Reserve Requirement based on 125% of 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

