



Joanne Bialas
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2012-13 Current Year Annual Maintenance Schedule

Date: September 5, 2012

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

Please note that there may be generation outages due to gas pipeline outages that are currently tentatively scheduled for some weeks in 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.

2012-13 AMS - DATED September 5, 2012

The 2012 AMS - dated September 5, 2012 reflects all planned maintenance requests for September 2012- May 31, 2013 that have been submitted to the ISO through September 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 September 2012 - May 31, 2013 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of -640 MW for week beginning September 22nd. 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 September 4, 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

September 4, 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]
09/15/2012	30,803	707	0	4,597	2,100	500	24,310	22,530	2,375	24,905	(600)	500	(100)	350	250
09/22/2012	30,940	707	0	4,872	2,100	500	24,170	22,439	2,375	24,814	(640)	500	(140)	350	210
09/29/2012	31,665	507	37	4,911	2,800	419	24,080	16,615	2,375	18,990	5,090	500	5,590	350	5,940
10/06/2012	30,505	507	37	5,480	2,800	0	22,770	16,651	2,375	19,026	3,740	500	4,240	350	4,590
10/13/2012	33,002	507	37	10,489	2,800	0	20,260	17,582	2,375	19,957	300	500	800	350	1,150
10/20/2012	32,237	507	37	9,363	2,800	0	20,620	17,949	2,375	20,324	300	500	800	350	1,150
10/27/2012	30,188	555	177	5,841	3,600	0	21,480	18,157	2,375	20,532	950	500	1,450	350	1,800
11/03/2012	30,510	555	177	7,113	3,600	0	20,530	18,273	2,375	20,648	(120)	500	380	350	730
11/10/2012	30,140	555	177	4,944	3,600	0	22,330	18,620	2,375	20,995	1,340	500	1,840	350	2,190
11/17/2012	30,594	555	177	3,536	3,600	0	24,190	19,363	2,375	21,738	2,450	500	2,950	350	3,300
11/24/2012	29,918	555	177	2,857	3,600	0	24,190	20,088	2,375	22,463	1,730	500	2,230	350	2,580
12/01/2012	29,894	555	253	1,896	3,200	0	25,610	20,304	2,375	22,679	2,930	500	3,430	350	3,780
12/08/2012	29,789	555	253	901	3,200	0	26,500	20,595	2,375	22,970	3,530	500	4,030	350	4,380
12/15/2012	29,779	555	253	509	3,200	0	26,880	20,607	2,375	22,982	3,900	500	4,400	350	4,750
12/22/2012	29,744	555	253	439	3,200	1,000	25,910	20,669	2,375	23,044	2,870	500	3,370	350	3,720
12/29/2012	29,715	555	253	339	3,200	1,000	25,980	20,944	2,375	23,319	2,660	500	3,160	350	3,510
01/05/2013	29,717	555	253	126	2,800	2,000	25,600	21,412	2,375	23,787	1,810	500	2,310	350	2,660
01/12/2013	29,717	555	253	126	2,800	2,000	25,600	21,412	2,375	23,787	1,810	500	2,310	350	2,660
01/19/2013	29,713	555	253	67	2,800	2,000	25,650	21,412	2,375	23,787	1,860	500	2,360	350	2,710
01/26/2013	29,713	555	253	67	3,100	2,000	25,350	21,188	2,375	23,563	1,790	500	2,290	350	2,640
02/02/2013	29,721	555	253	56	3,100	2,000	25,370	20,920	2,375	23,295	2,080	500	2,580	350	2,930
02/09/2013	29,921	555	253	1,345	3,100	2,000	24,280	20,891	2,375	23,266	1,010	500	1,510	350	1,860
02/16/2013	29,921	555	253	1,394	3,100	2,000	24,240	20,627	2,375	23,002	1,240	500	1,740	350	2,090
02/23/2013	29,927	555	253	1,356	3,100	0	26,280	19,633	2,375	22,008	4,270	500	4,770	350	5,120
03/02/2013	29,929	555	253	1,568	2,200	0	26,970	19,282	2,375	21,657	5,310	500	5,810	350	6,160
03/09/2013	30,072	555	253	1,907	2,200	0	26,770	19,085	2,375	21,460	5,310	500	5,810	350	6,160
03/16/2013	29,878	555	253	1,326	2,200	0	27,160	18,718	2,375	21,093	6,070	500	6,570	350	6,920
03/23/2013	29,858	555	253	925	2,200	0	27,540	18,150	2,375	20,525	7,020	500	7,520	350	7,870
03/30/2013	29,963	555	253	1,939	2,700	0	26,130	17,638	2,375	20,013	6,120	500	6,620	350	6,970
04/06/2013	29,883	555	253	2,394	2,700	0	25,600	17,385	2,375	19,760	5,840	500	6,340	350	6,690
04/13/2013	30,114	555	253	5,442	2,700	0	22,780	16,873	2,375	19,248	5,530	500	4,030	350	4,380
04/20/2013	30,090	555	253	3,904	2,700	0	24,290	16,607	2,375	18,982	5,310	500	5,810	350	6,160
04/27/2013	29,815	555	253	3,182	3,400	0	24,040	16,580	2,375	18,955	5,090	500	5,590	350	5,940
05/04/2013	29,826	555	253	3,270	3,400	0	23,960	19,998	2,375	22,373	1,590	500	2,090	350	2,440
05/11/2013	30,174	555	253	4,581	3,400	0	23,000	20,973	2,375	23,348	(350)	500	150	350	500
05/18/2013	29,728	555	253	1,633	3,400	0	25,500	21,878	2,375	24,253	1,250	500	1,750	350	2,100
05/25/2013	29,561	555	253	213	3,400	0	26,760	22,872	2,375	25,247	1,510	500	2,010	350	2,360

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)

ISO-NE 2012-2013 OPERABLE CAPACITY ANALYSIS

September 4, 2012 - 50/50 FORECAST

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STUDY WEEK <small>(Week Beginning,</small>	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
<p>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)</p> <p>10. Total Load Obligation per the formula (8 + 9 = 10)</p> <p>11. Net OPCAP Supply minus Net Load Obligation (7 - 10 = 11)</p> <p>12. OP 4 Action 2 Real-time Demand Response based on OP4 Appendix A. Reserve Margins and Distribution Loss Factor Gross Ups are Included.</p> <p>13. OPCAP Margin taking into account Real Time Demand Response through OP4 Step 2 (11 + 12 = 13).</p> <p>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.</p> <p>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).</p>															

New England Operable Capacity Margins
50/50 FORECAST

