



Rachel Wilkins-Thurman
Outage Coordination

To: NEPOOL Participants

From: Rachel Wilkins-Thurman

Subject: 2010-11 Annual Maintenance Schedule – October Edition

Date: October 7, 2010

Following this transmittal letter, you will find the 2010-11 Annual Maintenance Schedule (AMS) – October Edition dated October 7, 2010, with rounded weekly planned outage totals only, and an Operable Capacity Analysis for October 2010 through May 2011. This schedule covers the remainder of the first 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.

2010-11 AMS – OCTOBER EDITION - DATED OCTOBER 7, 2010

October Edition of the 2010-11 AMS - dated October 7, 2010 reflects all planned maintenance requests for October 2010- May 2011 that have been submitted to the ISO through October 1, 2010. Those generator owners who have not yet submitted their anticipated maintenance schedules for the AMS covering the Procurement Period 2010-11 are encouraged to do so.

2010-11 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for October 2010 through May 2011 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of positive 970 MW for week beginning May 7th. However, it is possible that additional maintenance that may be added in upcoming editions of the 2010-11 AMS will reduce those margins.

Peak Load Exposures (PLE)

After being adjusted for Other Demand Resources, ODR, the Peak Load Exposure (PLE) for the summer and winter of the 2010-11 procurement period is 26,618 MW and 21,526 MW respectively, and reflects the seasonal peak load based on the 2010 CELT Report.

Generating Unit Capabilities

Resource Capacity Supply Obligations, CSO, are based upon data as of October 1, 2010 and includes Energy Management System (EMS) assets. New unit additions are factored into the New Generation column at the appropriate points in time.

Miscellaneous Assumptions

The weekly Total Known Maintenance values include all generation scheduled out-of-service as reflected within this draft of the 2010-11 AMS.

Unplanned Outage Allotment

Allowances for unplanned outages, as documented in ISO New England OP-5, range from 2,100 MW during the summer months to 3,600 MW.

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 2010-11 AMS or Operable Capacity Analysis, If you have any comments or suggestions please feel free to contact Rachel Wilkins-Thurman at (413) 540-4261 or Joanne Bialas at (413) 535-4162 or by email at opamoreq@iso-ne.com

ISO-NE 2010 OPERABLE CAPACITY ANALYSIS

October 7, 2010 - 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 OPCAP MW	NON COMMERCIAL CAPACITY MW	KNOWN OUTAGES	UNPLANNED OUTAGES MW	GEN RISK DUE TO GAS SUP MW	EXPORT LTD AVAIL OPCAP MW(with no outages)	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	OPCAP MARGIN w/ OP4 actions through OP4 Step 2 MW	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]	
10/23/2010	30,291	300	0	5,700	2,800	0	24,630	22,090	18,110	1,800	19,910	2,180	670	2,850	520	400
10/30/2010	30,259	424	0	6,300	2,800	0	23,986	21,580	16,484	1,800	18,284	3,300	670	3,970	520	400
11/6/2010	30,259	424	0	4,000	3,600	0	26,249	23,080	18,430	1,800	20,230	2,850	670	3,520	520	400
11/13/2010	30,259	424	0	3,700	3,600	0	26,510	23,380	18,772	1,800	20,572	2,810	670	3,480	520	400
11/20/2010	30,259	424	0	2,800	3,600	0	27,482	24,280	17,555	1,800	19,355	4,920	670	5,590	520	400
11/27/2010	30,259	424	0	900	3,600	0	29,383	26,180	20,234	1,800	22,034	4,150	670	4,820	520	400
12/4/2010	30,394	368	0	1,300	3,200	0	29,093	26,260	20,433	1,800	22,233	4,030	670	4,700	520	400
12/11/2010	30,394	368	0	700	3,200	0	29,718	26,860	20,720	1,800	22,520	4,340	670	5,010	520	400
12/18/2010	30,394	368	0	300	3,200	0	30,062	27,260	20,731	1,800	22,531	4,730	670	5,400	520	400
12/25/2010	30,394	368	0	300	3,200	0	30,096	27,260	20,793	1,800	22,593	4,670	670	5,340	520	400
1/1/2011	30,394	368	0	300	2,800	0	30,097	27,660	21,064	1,800	22,864	4,800	670	5,470	520	400
1/8/2011	30,394	368	0	300	2,800	2,000	30,097	25,660	21,526	1,800	23,326	2,330	670	3,000	520	400
1/15/2011	30,394	368	0	300	2,800	2,000	30,068	25,660	21,526	1,800	23,326	2,330	670	3,000	520	400
1/22/2011	30,394	368	0	300	2,800	2,000	30,066	25,660	21,526	1,800	23,326	2,330	670	3,000	520	400
1/29/2011	30,394	368	0	600	3,100	2,000	29,825	25,060	21,305	1,800	23,105	1,950	670	2,620	520	400
2/5/2011	30,394	368	0	1,000	3,100	2,000	29,440	24,660	21,040	1,800	22,840	1,820	670	2,490	520	400
2/12/2011	30,394	368	0	1,500	3,100	2,000	28,898	24,160	21,011	1,800	22,811	1,350	670	2,020	520	400
2/19/2011	30,394	368	0	1,600	3,100	2,000	28,755	24,060	20,751	1,800	22,551	1,510	670	2,180	520	400
2/26/2011	30,394	368	0	2,000	3,100	0	28,433	25,660	19,770	1,800	21,570	4,090	670	4,760	520	400
3/5/2011	30,394	300	0	2,700	2,200	0	27,701	25,790	19,424	1,800	21,224	4,570	670	5,240	520	400
3/12/2011	30,394	300	0	2,100	2,200	0	28,304	26,390	19,229	1,800	21,029	5,360	670	6,030	520	400
3/19/2011	30,394	300	0	1,900	2,200	0	28,515	26,590	18,867	1,800	20,667	5,920	670	6,590	520	400
3/26/2011	30,196	300	0	3,400	2,700	0	26,841	24,400	18,306	1,800	20,106	4,290	670	4,960	520	400
4/2/2011	30,196	300	0	4,400	2,700	0	25,758	23,400	17,803	1,800	19,603	3,800	670	4,470	520	400
4/9/2011	30,196	300	0	4,500	2,700	0	25,651	23,300	17,553	1,800	19,353	3,950	670	4,620	520	400
4/16/2011	30,196	300	0	4,800	2,700	0	25,400	23,000	17,047	1,800	18,847	4,150	670	4,820	520	400
4/23/2011	30,196	300	0	3,800	2,700	0	26,395	24,000	16,785	1,800	18,585	5,410	670	6,080	520	400
4/30/2011	30,196	300	0	5,100	3,400	0	25,142	22,000	16,758	1,800	18,558	3,440	670	4,110	520	400
5/7/2011	30,196	300	0	4,000	3,400	0	26,161	23,100	20,325	1,800	22,125	970	670	1,640	520	400
5/14/2011	30,196	300	0	1,800	3,400	0	28,359	25,300	21,296	1,800	23,096	2,200	670	2,870	520	400
5/21/2011	30,196	300	0	500	3,400	0	29,670	26,600	22,198	1,800	23,998	2,600	670	3,270	520	400
5/28/2011	30,196	300	0	100	3,400	0	30,089	27,000	22,976	1,800	24,776	2,220	670	2,890	520	400

1. Available OPCAP MW based on resource Capacity Supply Obligations, CSO, from Forward Capacity Tracking System, FCTS . Does not include Settlement Only Generators. (separate LTOCM run without any generator outages, tab Case Output-System Results-column LZ EXPORT LTD AVAIL OPCAP MW)
2. External Node Available OPCAP MW based on external Capacity Supply Obligations, CSO. (LTOCM application Case Output-System Results-EXTERNAL NODE AVAIL OPCAP 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 Exposure per data included in the 2010 CELT report. (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

