



Richard Boughton
Outage Coordination

To: NEPOOL Participants

From: Richard Boughton

Subject: 2011-12 Current Year Annual Maintenance Schedule

Date: November 4, 2011

Following this transmittal letter, you will find the 2011-12 Annual Maintenance Schedule (AMS) – dated November 4, 2011, with rounded weekly planned outage totals only, and an Operable Capacity Analysis (with forecasted external transactions) for November 2011 through May 31, 2012. This schedule covers the second 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.

2011-12 AMS - DATED November 4, 2011

The 2011-12 AMS - dated November 7, 2011 reflects all planned maintenance requests for November 2011- May 31, 2012 that have been submitted to the ISO through November 2, 2011. Those generator owners who have not yet submitted their anticipated maintenance schedules for Procurement Period 2011-12 are encouraged to do so.

2011-12 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for November 2011 through May 31, 2012 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of 730 MW for week beginning November 5th. 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 November 4, 2011 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 2011-12 AMS or Operable Capacity Analysis, or If you have any comments or suggestions please feel free to contact Richard Boughton at (413) 540-4752 or Rachel Wilkins-Thurman (413) 540-4261 or by email at opamoreq@iso-ne.com.

ISO-NE 2011-12 OPERABLE CAPACITY ANALYSIS

NOVEMBER 4, 2011 - 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
11/5/2011	32,086	368	0	7,758	3,600	0	21,100	18,374	2,000	20,374	730	550	1,280	375	1,655
11/12/2011	31,063	368	0	5,802	3,600	0	22,030	18,719	2,000	20,719	1,310	550	1,860	375	2,235
11/19/2011	31,133	368	0	3,954	3,600	0	23,950	19,458	2,000	21,458	2,490	550	3,040	375	3,415
11/26/2011	31,116	368	0	3,912	3,600	0	23,970	20,179	2,000	22,179	1,790	550	2,340	375	2,715
12/3/2011	31,145	368	0	3,570	3,200	0	24,740	20,393	2,000	22,393	2,350	550	2,900	375	3,275
12/10/2011	31,083	368	0	1,950	3,200	0	26,300	20,683	2,000	22,683	3,620	550	4,170	375	4,545
12/17/2011	30,921	368	0	956	3,200	0	27,130	20,694	2,000	22,694	4,440	550	4,990	375	5,365
12/24/2011	30,915	368	0	934	3,200	0	27,150	20,756	2,000	22,756	4,390	550	4,940	375	5,315
12/31/2011	30,510	493	0	914	2,800	0	27,290	21,030	2,000	23,030	4,260	550	4,810	375	5,185
1/7/2012	30,533	493	0	1,167	2,800	2,000	25,060	21,495	2,000	23,495	1,560	550	2,110	375	2,485
1/14/2012	30,839	493	0	1,425	2,800	2,000	25,110	21,495	2,000	23,495	1,610	550	2,160	375	2,535
1/21/2012	30,530	493	0	1,117	2,800	2,000	25,110	21,495	2,000	23,495	1,610	550	2,160	375	2,535
1/28/2012	30,469	493	0	874	3,100	2,000	24,990	21,272	2,000	23,272	1,720	550	2,270	375	2,645
2/4/2012	30,696	493	0	1,148	3,100	2,000	24,940	21,005	2,000	23,005	1,930	550	2,480	375	2,855
2/11/2012	30,429	493	0	887	3,100	2,000	24,930	20,976	2,000	22,976	1,950	550	2,500	375	2,875
2/18/2012	30,407	493	0	880	3,100	2,000	24,920	20,714	2,000	22,714	2,210	550	2,760	375	3,135
2/25/2012	30,385	493	0	632	3,100	0	27,150	19,726	2,000	21,726	5,420	550	5,970	375	6,345
3/3/2012	30,533	493	0	1,852	2,200	0	26,970	19,376	2,000	21,376	5,590	550	6,140	375	6,515
3/10/2012	30,559	493	0	2,439	2,200	0	26,410	19,180	2,000	21,180	5,230	550	5,780	375	6,155
3/17/2012	30,457	493	0	1,716	2,200	0	27,030	18,816	2,000	20,816	6,210	550	6,760	375	7,135
3/24/2012	30,534	493	0	2,733	2,200	0	26,090	18,250	2,000	20,250	5,840	550	6,390	375	6,765
3/31/2012	30,562	493	0	4,304	2,700	0	24,050	17,742	2,000	19,742	4,310	550	4,860	375	5,235
4/7/2012	30,737	493	0	4,919	2,700	0	23,610	17,491	2,000	19,491	4,120	550	4,670	375	5,045
4/14/2012	30,743	493	0	5,288	2,700	0	23,250	16,981	2,000	18,981	4,270	550	4,820	375	5,195
4/21/2012	30,928	493	0	4,348	2,700	0	24,370	16,716	2,000	18,716	5,650	550	6,200	375	6,575
4/28/2012	30,581	493	0	3,772	3,400	0	23,900	16,690	2,000	18,690	5,210	550	5,760	375	6,135
5/5/2012	30,474	493	0	2,319	3,400	0	25,250	20,452	2,000	22,452	2,800	550	3,350	375	3,725
5/12/2012	30,362	493	0	2,619	3,400	0	24,840	21,438	2,000	23,438	1,400	550	1,950	375	2,325
5/19/2012	30,599	493	0	1,177	3,400	0	26,510	22,354	2,000	24,354	2,160	550	2,710	375	3,085
5/26/2012	30,173	493	0	281	3,400	0	26,980	23,360	2,000	25,360	1,620	550	2,170	375	2,545

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

