



Richard Boughton
Outage Coordination

To: NEPOOL Participants

From: Richard Boughton

Subject: 2011-12 Current Year Annual Maintenance Schedule

Date: September 6, 2011

Following this transmittal letter, you will find the 2011-12 Annual Maintenance Schedule (AMS) – dated September 6, 2011, with rounded weekly planned outage totals only, and an Operable Capacity Analysis (with forecasted external transactions) for September 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 September 6, 2011

The 2011-12 AMS - dated September 6, 2011 reflects all planned maintenance requests for September 2011- May 31, 2012 that have been submitted to the ISO through August 31, 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 September 2011 through May 31, 2012 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of negative 490 MW for week beginning October 15th. The overall margin has become negative since additional resources have been removed from the overall available capacity since the last publication.

Peak Load Exposures (PLE)

After being adjusted for Other Demand Resources, ODR, the Peak Load Exposure (PLE) for the summer and winter of 2011-12 is 26,776 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 August 31, 2011 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 2011-12 AMS.

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 FALL 2011 - SPRING 2012 OPERABLE CAPACITY ANALYSIS

September 6 , 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
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]
9/17/2011	30,044	1,281	0	3,275	2,100	0	25,950	22,828	2,000	24,828	1,120	550	1,670	375	2,045
9/24/2011	29,956	1,281	0	3,273	2,100	0	25,860	22,737	2,000	24,737	1,120	550	1,670	375	2,045
10/1/2011	31,582	517	0	6,877	2,800	0	22,420	16,725	2,000	18,725	3,690	550	4,240	375	4,615
10/8/2011	31,853	517	0	9,644	2,800	0	19,930	16,761	2,000	18,761	1,170	550	1,720	375	2,095
10/15/2011	31,975	517	0	10,489	2,800	0	19,200	17,687	2,000	19,687	(490)	550	60	375	435
10/22/2011	31,662	517	0	8,525	2,800	0	20,850	18,052	2,000	20,052	800	550	1,350	375	1,725
10/29/2011	31,013	493	0	6,242	3,600	0	21,660	18,258	2,000	20,258	1,400	550	1,950	375	2,325
11/5/2011	30,695	493	0	5,975	3,600	0	21,610	18,374	2,000	20,374	1,240	550	1,790	375	2,165
11/12/2011	30,539	493	0	4,760	3,600	0	22,670	18,719	2,000	20,719	1,950	550	2,500	375	2,875
11/19/2011	30,559	493	0	2,770	3,600	0	24,680	19,458	2,000	21,458	3,220	550	3,770	375	4,145
11/26/2011	30,517	493	0	2,954	3,600	0	24,460	20,179	2,000	22,179	2,280	550	2,830	375	3,205
12/3/2011	30,655	493	0	2,923	3,200	0	25,020	20,393	2,000	22,393	2,630	550	3,180	375	3,555
12/10/2011	30,644	493	0	1,604	3,200	0	26,330	20,683	2,000	22,683	3,650	550	4,200	375	4,575
12/17/2011	30,460	493	0	613	3,200	0	27,140	20,694	2,000	22,694	4,450	550	5,000	375	5,375
12/24/2011	30,459	493	0	603	3,200	0	27,150	20,756	2,000	22,756	4,390	550	4,940	375	5,315
12/31/2011	30,459	493	0	603	2,800	0	27,550	21,030	2,000	23,030	4,520	550	5,070	375	5,445
1/7/2012	30,459	493	0	605	2,800	2,000	25,550	21,495	2,000	23,495	2,050	550	2,600	375	2,975
1/14/2012	30,751	493	0	897	2,800	2,000	25,550	21,495	2,000	23,495	2,050	550	2,600	375	2,975
1/21/2012	30,459	493	0	605	2,800	2,000	25,550	21,495	2,000	23,495	2,050	550	2,600	375	2,975
1/28/2012	30,444	493	0	605	3,100	2,000	25,230	21,272	2,000	23,272	1,960	550	2,510	375	2,885
2/4/2012	30,667	493	0	853	3,100	2,000	25,210	21,005	2,000	23,005	2,200	550	2,750	375	3,125
2/11/2012	30,374	493	0	560	3,100	2,000	25,210	20,976	2,000	22,976	2,230	550	2,780	375	3,155
2/18/2012	30,383	493	0	571	3,100	2,000	25,200	20,714	2,000	22,714	2,490	550	3,040	375	3,415
2/25/2012	30,374	493	0	560	3,100	0	27,210	19,726	2,000	21,726	5,480	550	6,030	375	6,405
3/3/2012	30,709	493	0	1,659	2,200	0	27,340	19,376	2,000	21,376	5,960	550	6,510	375	6,885
3/10/2012	30,689	493	0	1,932	2,200	0	27,050	19,180	2,000	21,180	5,870	550	6,420	375	6,795
3/17/2012	30,576	493	0	1,123	2,200	0	27,750	18,816	2,000	20,816	6,930	550	7,480	375	7,855
3/24/2012	30,377	493	0	995	2,200	0	27,680	18,250	2,000	20,250	7,430	550	7,980	375	8,355
3/31/2012	30,375	493	0	2,647	2,700	0	25,520	17,742	2,000	19,742	5,780	550	6,330	375	6,705
4/7/2012	30,423	493	0	2,384	2,700	0	25,830	17,491	2,000	19,491	6,340	550	6,890	375	7,265
4/14/2012	30,350	493	0	1,878	2,700	0	26,260	16,981	2,000	18,981	7,280	550	7,830	375	8,205
4/21/2012	30,707	493	0	2,207	2,700	0	26,290	16,716	2,000	18,716	7,570	550	8,120	375	8,495
4/28/2012	30,415	493	0	1,945	3,400	0	25,560	16,690	2,000	18,690	6,870	550	7,420	375	7,795
5/5/2012	30,419	493	0	1,832	3,400	0	25,680	20,452	2,000	22,452	3,230	550	3,780	375	4,155
5/12/2012	30,311	493	0	1,533	3,400	0	25,870	21,438	2,000	23,438	2,430	550	2,980	375	3,355
5/19/2012	30,566	493	0	877	3,400	0	26,780	22,354	2,000	24,354	2,430	550	2,980	375	3,355
5/26/2012	30,141	493	0	0	3,400	0	27,230	23,360	2,000	25,360	1,870	550	2,420	375	2,795

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)

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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 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
<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

