



Joanne Bialas
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2010-11 Annual Maintenance Schedule – June Edition

Date: June 7, 2010

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

June Edition of the 2010-11 AMS - dated June 7, 2010 reflects all planned maintenance requests for June 2010- May 2011 that have been submitted to the ISO through June 3, 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 June 2010 through May 2011 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of negative 1,090 MW for week beginning June 5th. 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 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 June 3, 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 2009 AMS or Operable Capacity Analysis, please feel free to contact me at (413) 535-4162 or by email at opamoreq@iso-ne.com.

2010-11 ANNUAL MAINTENANCE SCHEDULE

Edition: June Edition - Dated June 7, 2010

Information Received through June 3, 2010

Dates indicate Saturday week beginning

Sorted by Area and Local Control Center

Summer Peak Load Exposure weeks

Plant Name	Resource ID	Asset ID	S. Name	Dispatch Zone	LCC	Current Lead Participant	Blackstart	Type	WSCC	SSCC	2010-11																																																					
											May 29	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	5	12	19	26	5	12	19	26	2	9	16	23	30	7	14	21		
											rounded	planned	0	0	0	0	100	0	100	0	0	100	100	100	100	200	500	500	3600	3800	5800	3600	5500	4900	3300	3200	3600	1800	1100	900	600	600	600	600	600	300	300	500	700	1200	1300	1500	1900	1300	2100	2200	5200	4600	5500	4800	3100	3900	2000	500

Summer Peak Load Exposure weeks

ISO-NE 2010 OPERABLE CAPACITY ANALYSIS

June 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	PLANNED OUTAGES	UNPLANNED OUTAGES MW	GEN 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]
05/29/2010	29,897	331	0	0	2,800	0	27,390	26,618	1,800	28,418	(1,030)	520	(510)	640	130
06/05/2010	29,897	331	0	100	2,800	0	27,330	26,618	1,800	28,418	(1,090)	520	(570)	640	70
06/12/2010	29,897	331	0	0	2,800	0	27,380	26,618	1,800	28,418	(1,040)	520	(520)	640	120
06/19/2010	29,897	331	0	100	2,800	0	27,370	26,618	1,800	28,418	(1,050)	520	(530)	640	110
06/26/2010	29,897	331	0	100	2,800	0	27,360	26,618	1,800	28,418	(1,060)	520	(540)	640	100
07/03/2010	29,936	321	0	0	2,100	0	28,120	26,618	1,800	28,418	(300)	520	220	640	860
07/10/2010	29,936	321	0	0	2,100	0	28,110	26,618	1,800	28,418	(310)	520	210	640	850
07/17/2010	29,936	321	0	100	2,100	0	28,100	26,618	1,800	28,418	(320)	520	200	640	840
07/24/2010	29,936	321	0	100	2,100	0	28,100	26,618	1,800	28,418	(320)	520	200	640	840
07/31/2010	29,895	300	0	0	2,100	0	28,050	26,618	1,800	28,418	(370)	520	150	640	790
08/07/2010	29,895	300	0	0	2,100	0	28,050	26,618	1,800	28,418	(370)	520	150	640	790
08/14/2010	29,895	300	0	100	2,100	0	28,030	26,618	1,800	28,418	(390)	520	130	640	770
08/21/2010	29,895	300	0	0	2,100	0	28,050	26,618	1,800	28,418	(370)	520	150	640	790
08/28/2010	29,895	300	0	100	2,100	0	28,030	26,618	1,800	28,418	(390)	520	130	640	770
09/04/2010	29,895	300	0	400	2,100	0	27,720	26,618	1,800	28,418	(700)	520	(180)	640	460
09/11/2010	29,895	300	0	400	2,100	0	27,670	26,618	1,800	28,418	(750)	520	(230)	640	410
09/18/2010	29,895	300	0	3,300	2,100	0	24,840	22,722	1,800	24,522	320	520	840	640	400
09/25/2010	30,065	300	0	3,300	2,800	0	24,290	22,632	1,800	24,432	(140)	520	380	640	400
10/02/2010	30,065	300	0	4,600	2,800	0	23,000	16,793	1,800	18,593	4,410	520	4,930	640	400
10/09/2010	30,065	300	0	3,600	2,800	0	23,940	16,829	1,800	18,629	5,310	520	5,830	640	400
10/16/2010	30,065	300	0	4,300	2,800	0	23,270	17,748	1,800	19,548	3,720	520	4,240	640	400
10/23/2010	30,065	300	0	4,300	2,800	0	23,270	18,110	1,800	19,910	3,360	520	3,880	640	400
10/30/2010	30,065	300	0	3,100	3,600	0	23,630	18,315	1,800	20,115	3,510	520	4,030	640	400
11/06/2010	30,065	300	0	3,300	3,600	0	23,440	18,430	1,800	20,230	3,210	520	3,730	640	400
11/13/2010	30,065	300	0	3,200	3,600	0	23,560	18,772	1,800	20,572	2,990	520	3,510	640	400
11/20/2010	30,065	300	0	3,000	3,600	0	23,810	17,555	1,800	19,355	4,450	520	4,970	640	400
11/27/2010	30,065	300	0	1,100	3,600	0	25,620	20,234	1,800	22,034	3,590	520	4,110	640	400
12/04/2010	30,264	300	0	800	3,200	0	26,520	20,433	1,800	22,233	4,290	460	4,750	640	400
12/11/2010	30,264	300	0	600	3,200	0	26,750	20,720	1,800	22,520	4,230	460	4,690	640	400
12/18/2010	30,264	300	0	600	3,200	0	26,780	20,731	1,800	22,531	4,250	460	4,710	640	400
12/25/2010	30,264	300	0	600	3,200	0	26,770	20,793	1,800	22,593	4,180	460	4,640	640	400
01/01/2011	30,264	300	0	500	2,800	0	27,220	21,064	1,800	22,864	4,360	460	4,820	640	400
01/08/2011	30,264	300	0	500	2,800	2,000	25,220	21,526	1,800	23,326	1,890	460	2,350	640	400
01/15/2011	30,264	300	0	300	2,800	2,000	25,490	21,526	1,800	23,326	2,160	460	2,620	640	400
01/22/2011	30,264	300	0	300	2,800	2,000	25,490	21,526	1,800	23,326	2,160	460	2,620	640	400
01/29/2011	30,264	300	0	500	3,100	2,000	24,920	21,305	1,800	23,105	1,810	460	2,270	640	400
02/05/2011	30,264	300	0	700	3,100	2,000	24,800	21,040	1,800	22,840	1,940	460	2,400	640	400
02/12/2011	30,264	300	0	1,100	3,100	2,000	24,370	21,011	1,800	22,811	1,560	460	2,020	640	400
02/19/2011	30,264	300	0	1,200	3,100	2,000	24,220	20,751	1,800	22,551	1,670	460	2,130	640	400
02/26/2011	30,264	300	0	1,100	3,100	0	26,360	19,770	1,800	21,570	4,790	460	5,250	640	400
03/05/2011	30,264	300	0	1,700	2,200	0	26,700	19,424	1,800	21,224	5,480	460	5,940	640	400
03/12/2011	30,264	300	0	1,500	2,200	0	26,900	19,229	1,800	21,029	5,870	460	6,330	640	400
03/19/2011	30,264	300	0	1,300	2,200	0	27,110	18,867	1,800	20,667	6,440	460	6,900	640	400
03/26/2011	30,065	300	0	1,900	2,700	0	25,750	18,306	1,800	20,106	5,640	520	6,160	640	400
04/02/2011	30,065	300	0	2,900	2,700	0	24,810	17,803	1,800	19,603	5,210	520	5,730	640	400
04/09/2011	30,065	300	0	2,800	2,700	0	24,900	17,553	1,800	19,353	5,550	520	6,070	640	400
04/16/2011	30,065	300	0	3,400	2,700	0	24,230	17,047	1,800	18,847	5,380	520	5,900	640	400
04/23/2011	30,065	300	0	3,100	2,700	0	24,530	16,785	1,800	18,585	5,940	520	6,460	640	400
04/30/2011	30,065	300	0	3,000	3,400	0	24,000	16,758	1,800	18,558	5,440	520	5,960	640	400
05/07/2011	30,065	300	0	3,100	3,400	0	23,830	20,325	1,800	22,125	1,700	520	2,220	640	400
05/14/2011	30,065	300	0	900	3,400	0	26,040	21,296	1,800	23,096	2,940	520	3,460	640	400
05/21/2011	30,065	300	0	400	3,400	0	26,550	22,198	1,800	23,998	2,550	520	3,070	640	400
05/28/2011	30,065	300	0	0	3,400	0	26,960	22,976	1,800	24,776	2,180	520	2,700	640	400

1. Available OPCAP MW based on resource Capacity Supply Obligations, CSO, during the Forward Capacity Market procurement period from June 2010 through May 2011. Does not include Settlement Only Generators.
2. External Node Available OPCAP MW based on external Capacity Supply Obligations, CSO, during the Forward Capacity Market procurement period from June 2010 through May 2011
3. New resources that have not yet acquired a CSO but will become commercial in the future.
4. Allowance for Planned Outages includes planned 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.
6. Generation at Risk due to Gas Supply pertains to gas fired capacity expected to be at risk during cold weather conditions.
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.
9. Operating Reserve Requirement based on first largest contingency plus 1/2 the second largest contingency.
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 not including reserve margin gross-ups and derate applied.
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. Real Time Emergency Generation is capped at 600MW.
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

