



Joanne Bialas
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2009 Annual Maintenance Schedule – Draft #4

Date: December 12, 2008

Following this transmittal letter, you will find the 2009 Annual Maintenance Schedule (AMS) – Draft #4 dated December 12, 2008, with rounded weekly planned outage totals only, and an Operable Capacity Analysis (with forecasted external transactions) for 2009. 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.

2009 AMS – DRAFT #4 - DATED DECEMBER 12, 2008

Draft #4 of the 2009 AMS - dated December 12, 2008 reflects all planned maintenance requests for 2009 that have been submitted to the ISO through December 11, 2008. Those generator owners who have not yet submitted their anticipated maintenance schedules for 2009 are encouraged to do so.

2009 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for 2009 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of negative 1,750 MW for weeks beginning May 30th, June 6th, 13th, and 20st. Negative capacity margins are also being forecasted for all remaining weeks in June, July and August, with positive capacity margins for the remaining weeks of the year. However, it is possible that additional maintenance that may be added in upcoming editions of the 2009 AMS will reduce those margins.

Peak Load Exposures (PLE)

The Peak Load Exposures (PLE) for the winter and summer of 2009 are 23,030 MW and 28,480 MW respectively, and reflect the seasonal peak loads based on the 2008 CELT Report.

Generating Unit Capabilities

Generating unit capabilities are based upon the December 1, 2008 Seasonal Claimed Capabilities report and includes assets receiving credit as part of the Energy Management System (EMS). 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 2009 AMS.

Only known capacity-backed (ICAP) contracts have been included in the Interchange column of the 2008 Operable Capacity Analysis. This column combines monthly data, as it becomes available, with contract totals recorded in the 2008 CELT Report.

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 2008 AMS or Operable Capacity Analysis, please feel free to contact me at (413) 535-4162 or by email at opamoreq@iso-ne.com.

ISO-NE 2009 OPERABLE CAPACITY ANALYSIS

December 12, 2008 - WITH KNOWN EXTERNAL CONTRACTS - 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.

Week Beginning, Saturday															
Year	Month	Day	Installed Seasonal Claimed Capacity (SCC) [Note 1] (MW)	Net Interchange (NYPP, NB, HQ, Highgate) [Note 2] (MW)	New Generation [Note 3] (MW)	De-listed ICAP resources [Note 4] (MW)	Net Capacity [Note 5] (MW)	Peak Load Exposure [Note 6] (MW)	Operating Reserve Requirement [Note 7] (MW)	Total Known Maintenance [Note 8] (MW)	Allowance for Unplanned Outages [Note 9] (MW)	Generation at Risk Due to Gas Supply [Note 10] (MW)	Total Capacity [Note 11] (MW)	Operable Capacity Margin (+/-) [Note 12]	Extent of OP 4 Actions That May be Necessary (OP 4 Actions up to and including) [Note 10]
2008	December	27	33,321	48	200	290	33,568	22,549	1,800	300	2,000	0	31,268	6,920	
2009	January	3	33,321	48	200	290	33,568	23,030	1,800	800	2,800	0	29,968	5,140	
		10	33,321	48	200	290	33,568	23,030	1,800	500	2,800	3,900	26,368	1,540	
		17	33,321	48	200	290	33,568	23,030	1,800	400	2,800	3,900	26,468	1,640	
		24	33,321	48	200	290	33,568	22,800	1,800	400	2,800	3,900	26,468	1,870	
		31	33,321	48	200	290	33,568	22,523	1,800	600	2,800	3,900	26,268	1,950	
2009	February	7	33,327	48	200	290	33,578	22,493	1,800	600	3,100	3,900	25,978	1,690	
		14	33,327	48	200	290	33,578	22,222	1,800	600	3,100	3,900	25,978	1,960	
		21	33,327	48	200	290	33,578	21,199	1,800	300	3,100	3,900	26,278	3,280	
		28	33,327	48	200	290	33,578	20,838	1,800	1,300	3,100	0	29,178	6,540	
2009	March	7	33,373	48	200	290	33,618	20,635	1,800	1,900	2,200	0	29,518	7,080	
		14	33,373	48	200	290	33,618	20,257	1,800	2,200	2,200	0	29,218	7,160	
		21	33,373	48	200	290	33,618	19,672	1,800	2,900	2,200	0	28,518	7,050	
		28	33,373	48	200	290	33,618	19,161	1,800	3,100	2,200	0	28,318	7,360	
2009	April	4	33,376	48	300	290	33,728	18,901	1,800	4,900	2,700	0	26,128	5,430	
		11	33,376	48	300	290	33,728	18,373	1,800	4,900	2,700	0	26,128	5,960	
		18	33,376	48	300	290	33,728	18,099	1,800	4,500	2,700	0	26,528	6,630	
		25	33,376	48	300	290	33,728	18,072	1,800	5,600	2,700	0	25,428	5,560	
2009	May	2	33,376	48	300	290	33,728	21,517	1,800	5,600	3,400	0	24,728	1,410	
		9	33,376	48	300	290	33,728	22,516	1,800	3,600	3,400	0	26,728	2,410	
		16	33,376	48	300	290	33,728	23,445	1,800	2,200	3,400	0	28,128	2,880	
		23	33,376	48	300	290	33,728	24,464	1,800	1,300	3,400	0	29,028	2,760	
		30	30,981	48	300	290	31,328	28,480	1,800	0	2,800	0	28,528	(1,750)	Action 11
2009	June	6	30,981	48	300	290	31,328	28,480	1,800	0	2,800	0	28,528	(1,750)	Action 11
		13	30,981	48	300	290	31,328	28,480	1,800	0	2,800	0	28,528	(1,750)	Action 11
		20	30,981	48	300	290	31,328	28,480	1,800	0	2,800	0	28,528	(1,750)	Action 11
		27	30,890	48	300	290	31,238	28,480	1,800	0	2,100	0	29,138	(1,140)	Action 9
2009	July	4	30,890	48	400	290	31,338	28,480	1,800	0	2,100	0	29,238	(1,040)	Action 9
		11	30,890	48	400	290	31,338	28,480	1,800	0	2,100	0	29,238	(1,040)	Action 9
		18	30,890	48	400	290	31,338	28,480	1,800	0	2,100	0	29,238	(1,040)	Action 9
		25	30,890	48	400	290	31,338	28,480	1,800	0	2,100	0	29,238	(1,040)	Action 9
2009	August	1	30,890	48	400	290	31,338	28,480	1,800	0	2,100	0	29,238	(1,040)	Action 9
		8	30,859	48	400	290	31,308	28,480	1,800	0	2,100	0	29,208	(1,070)	Action 9
		15	30,859	48	400	290	31,308	28,480	1,800	0	2,100	0	29,208	(1,070)	Action 9
		22	30,859	48	400	290	31,308	28,480	1,800	0	2,100	0	29,208	(1,070)	Action 9
		29	30,859	48	400	290	31,308	26,190	1,800	100	2,100	0	29,108	1,120	
2009	September	5	30,852	48	400	290	31,298	24,775	1,800	300	2,100	0	28,898	2,320	
		12	30,852	48	400	290	31,298	24,399	1,800	1,300	2,100	0	27,898	1,700	
		19	30,852	48	400	290	31,298	24,305	1,800	1,800	2,100	0	27,398	1,290	
		26	30,852	48	400	290	31,298	18,337	1,800	4,400	2,100	0	24,798	4,660	
2009	October	3	30,852	48	400	290	31,298	18,374	1,800	5,600	2,800	0	22,898	2,720	
		10	33,377	48	400	290	33,828	19,344	1,800	5,700	2,800	0	25,328	4,180	
		17	33,377	48	400	290	33,828	19,726	1,800	5,000	2,800	0	26,028	4,500	
		24	33,377	48	400	290	33,828	19,943	1,800	4,200	2,800	0	26,828	5,090	
		31	33,377	48	400	290	33,828	20,065	1,800	3,300	3,600	0	26,928	5,060	
2009	November	7	33,437	48	400	290	33,888	20,426	1,800	3,300	3,600	0	26,988	4,760	
		14	33,437	48	400	290	33,888	21,200	1,800	2,300	3,600	0	27,988	4,990	
		21	33,437	48	400	290	33,888	21,956	1,800	900	3,600	0	29,388	5,630	
		28	33,437	48	400	290	33,888	22,166	1,800	1,100	3,600	0	29,188	5,220	
2009	December	5	33,431	48	400	290	33,878	22,469	1,800	100	3,200	0	30,578	6,310	
		12	33,431	48	400	290	33,878	22,480	1,800	100	3,200	0	30,578	6,300	
		19	33,431	48	400	290	33,878	22,546	1,800	0	3,200	0	30,678	6,330	
		26	33,431	48	400	290	33,878	22,265	1,800	0	3,200	0	30,678	6,610	

Notes: Please note that the information contained within the Capacity Analysis is a deterministic projection of system conditions which could materialize during any given week of the year

1. Installed Capacity per the December 1, 2008 SCC report, Energy Management System units, with an adjustment for capacity increases and decreases expected during the analysis period (SCC = Seasonal Claimed Capacity). The Operable Capacity does not reflect possible transmission constraints within the ISO New England system.
2. Net Interchange is based on known capacity-backed (ICAP) contracts. This column combines monthly data, as it becomes available, with contract totals recorded in the 2008 Capacity, Energy, Loads, and Transmission - CELT Report.
3. New Generation information includes a) generation recently commercial but not yet reflected in the ISO New England SCC Report totals used in the Installed Capacity Column, and b) future generation as assumed by ISO-NE System Planning Department. This value is rounded to the nearest hundred.
4. Delisted capacity is only known for the current month. Projections are based on known delisted capacity sales.
5. Net Capacity = (SCC) + (Interchange) + (New Generation) - (Delisted ICAP Sold) In this equation, values for SCC, Interchange and Delisted ICAP sold are rounded to the nearest ten (SCC = Seasonal Claimed Capacity).
6. Peak Load Exposure per data to be included in the 2008 CELT Report.
7. Operating Reserve Requirement based on first largest contingency plus 1/2 the second largest contingency.
8. Allowance for Unplanned Outages includes forced outages and maintenance outages scheduled less than 14 days in advance.
9. Generation at Risk due to Gas Supply reflects dual fuel conversions scheduled to be complete prior to the upcoming winter.
10. Relief from certain OP 4 Actions varies depending on system conditions.

New England Operable Capacity Margins WITH KNOWN EXTERNAL TRANSACTIONS - 50/50 FORECAST

