



**Joanne Bialas**  
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

**Subject: 2008 Annual Maintenance Schedule – Draft #4**

Date: December 13, 2007

Following this transmittal letter, you will find the 2008 Annual Maintenance Schedule (AMS) – Draft #4 dated December 13, 2007, with rounded weekly planned outage totals only, and an Operable Capacity Analysis (with forecasted external transactions) for 2008. 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.

**2008 AMS – DRAFT #4 - DATED DECEMBER 13, 2007**

Draft #4 of the 2008 AMS - dated December 13, 2007 reflects all planned maintenance requests for 2008 that have been submitted to the ISO through December 12, 2007. Those generator owners who have not yet submitted their anticipated maintenance schedules for 2008 are encouraged to do so.

**2008 OPERABLE CAPACITY ANALYSIS**

The Operable Capacity Analysis for 2008 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of negative 2,150 MW for weeks beginning May 31<sup>st</sup>, June 7<sup>th</sup>, 14<sup>th</sup>, and 21<sup>st</sup>. Negative capacity margins are also being forecasted for all remaining weeks in June, July and August, with positive capacity margins for most the remaining weeks of the year. However, it is possible that additional maintenance that may be added in upcoming editions of the 2008 AMS will reduce those margins. Presently, a negative capacity margin is also being forecast for weeks beginning May 3<sup>rd</sup> and 17<sup>th</sup>.

**Peak Load Exposures (PLE)**

The Peak Load Exposures (PLE) for the winter and summer of 2008 are 23,070 MW and 27,885 MW respectively, and reflect the seasonal peak loads based on the 2007 CELT Report.

**Generating Unit Capabilities**

Generating unit capabilities are based upon the December 1, 2007 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 2008 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 2007 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

Known maintenance of Hydro-Quebec Phase II and 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](mailto:opamoreq@iso-ne.com).



# ISO-NE 2008 OPERABLE CAPACITY ANALYSIS

**December 13, 2007 - 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 8] (MW)	Generation at Risk Due to Gas Supply [Note 9] (MW)	Total Capacity [Note 9] (MW)	Operable Capacity Margin (+/-) [Note 10] (MW)	Extent of OP 4 Actions That May be Necessary (OP 4 Actions up to and including) [Note 10]
2008	December	29	32,760	58	0	290	32,818	22,588	1,800	100	3,600	0	29,118	4,730	
	January	5	32,760	58	0	290	32,818	23,070	1,800	100	3,600	3,900	25,218	350	
		12	32,760	58	0	290	32,818	23,070	1,800	600	3,100	3,900	25,218	350	
		19	32,760	58	0	290	32,818	23,070	1,800	600	3,110	3,900	25,208	340	
		26	32,760	58	0	290	32,818	22,839	1,800	600	3,110	3,900	25,208	570	
2008	February	2	32,763	58	0	290	32,818	22,562	1,800	600	3,400	3,900	24,918	560	
		9	32,763	58	0	290	32,818	22,532	1,800	900	3,400	3,900	24,618	290	
		16	32,763	58	0	290	32,818	22,260	1,800	900	3,400	3,900	24,618	560	
		23	32,763	58	0	290	32,818	21,236	1,800	500	3,900	0	28,418	5,380	
2008	March	1	32,786	58	0	290	32,848	20,874	1,800	2,000	2,400	0	28,448	5,770	
		8	32,786	58	0	290	32,848	20,671	1,800	2,100	2,400	0	28,348	5,880	
		15	32,786	58	0	290	32,848	20,292	1,800	3,700	2,400	0	26,748	4,660	
		22	32,786	58	0	290	32,848	19,706	1,800	3,800	2,400	0	26,648	5,140	
		29	32,787	58	0	290	32,848	19,194	1,800	4,600	2,400	0	25,848	4,850	
2008	April	5	32,787	58	0	290	32,848	18,934	1,800	6,300	2,400	0	24,148	3,410	
		12	32,787	58	0	290	32,848	18,405	1,800	6,300	2,400	0	24,148	3,940	
		19	32,787	58	0	290	32,848	18,131	1,800	6,000	2,400	0	24,448	4,520	
		26	32,787	58	0	290	32,848	18,103	1,800	5,700	2,900	0	24,248	4,350	
2008	May	3	32,787	58	0	290	32,848	21,067	1,800	6,500	3,600	0	22,748	(120)	Action 3
		10	32,787	58	0	290	32,848	22,046	1,800	5,300	3,600	0	23,948	100	
		17	32,787	58	0	290	32,848	22,955	1,800	5,600	3,600	0	23,648	(1,110)	Action 9
		24	32,787	58	0	290	32,848	23,953	1,800	3,000	3,600	0	26,248	500	
2008	June	31	30,476	58	0	290	30,538	27,885	1,800	0	3,000	0	27,538	(2,150)	Action 11
		7	30,476	58	0	290	30,538	27,885	1,800	0	3,000	0	27,538	(2,150)	Action 11
		14	30,476	58	0	290	30,538	27,885	1,800	0	3,000	0	27,538	(2,150)	Action 11
		21	30,476	58	0	290	30,538	27,885	1,800	0	3,000	0	27,538	(2,150)	Action 11
		28	30,429	58	0	290	30,488	27,885	1,800	0	2,300	0	28,188	(1,500)	Action 11
2008	July	5	30,429	58	0	290	30,488	27,885	1,800	0	2,300	0	28,188	(1,500)	Action 11
		12	30,429	58	0	290	30,488	27,885	1,800	0	2,300	0	28,188	(1,500)	Action 11
		19	30,429	58	0	290	30,488	27,885	1,800	0	2,300	0	28,188	(1,500)	Action 11
		26	30,429	58	0	290	30,488	27,885	1,800	0	2,300	0	28,188	(1,500)	Action 11
2008	August	2	30,414	58	0	290	30,468	27,885	1,800	0	2,300	0	28,168	(1,520)	Action 11
		9	30,414	58	0	290	30,468	27,885	1,800	0	2,300	0	28,168	(1,520)	Action 11
		16	30,414	58	0	290	30,468	27,885	1,800	0	2,300	0	28,168	(1,520)	Action 11
		23	30,414	58	0	290	30,468	27,885	1,800	0	2,300	0	28,168	(1,520)	Action 11
		30	30,409	58	0	290	30,468	25,643	1,800	0	2,300	0	28,168	730	
2008	September	6	30,409	58	0	290	30,468	24,257	1,800	1,100	2,300	0	27,068	1,010	
		13	30,409	58	0	290	30,468	23,889	1,800	1,000	2,300	0	27,168	1,480	
		20	30,409	58	0	290	30,468	23,797	1,800	1,300	2,300	0	26,868	1,270	
		27	32,747	58	0	290	32,808	18,380	1,800	2,300	3,000	0	27,508	7,330	
2008	October	4	32,747	58	0	290	32,808	18,417	1,800	4,500	3,000	0	25,308	5,090	
		11	32,747	58	0	290	32,808	19,390	1,800	4,800	3,000	0	25,008	3,820	
		18	32,747	58	0	290	32,808	19,773	1,800	5,500	3,000	0	24,308	2,740	
		25	32,747	58	0	290	32,808	19,990	1,800	4,500	3,000	0	25,308	3,520	
2008	November	1	32,777	58	0	290	32,838	20,112	1,800	3,700	3,800	0	25,338	3,430	
		8	32,777	58	0	290	32,838	20,474	1,800	2,900	3,800	0	26,138	3,860	
		15	32,777	58	0	290	32,838	21,250	1,800	1,500	3,800	0	27,538	4,490	
		22	32,777	58	0	290	32,838	22,008	1,800	1,100	3,800	0	27,938	4,130	
		29	32,774	58	0	290	32,828	22,218	1,800	2,000	3,400	0	27,428	3,410	
2008	December	6	32,774	58	0	290	32,828	22,522	1,800	500	3,400	0	28,928	4,610	
		13	32,774	58	0	290	32,828	22,534	1,800	500	3,400	0	28,928	4,590	
		20	32,774	58	0	290	32,828	22,599	1,800	100	3,400	0	29,328	4,930	
		27	32,774	58	0	290	32,828	22,599	1,800	100	3,400	0	29,328	4,930	

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 December 1, 2007 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 2007 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 included in the April 2007 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

