



**Joanne Bialas**  
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

**Subject: 2008 Annual Maintenance Schedule – Draft #3**

Date: October 15, 2007

Following this transmittal letter, you will find the 2008 Annual Maintenance Schedule (AMS) – Draft #3 dated October 15, 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 #3 - DATED OCTOBER 15, 2007**

Draft #3 of the 2008 AMS - dated October 15, 2007 reflects all planned maintenance requests for 2008 that have been submitted to the ISO through October 14, 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 1,840 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 week beginning May 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 October 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

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](mailto:opamoreq@iso-ne.com).



# ISO-NE 2008 OPERABLE CAPACITY ANALYSIS

**October 15, 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	32,646	58	100	290	32,808	22,588	1,800	100	2,800	0	29,908	5,520	
	January	5	32,646	58	100	290	32,808	23,070	1,800	100	2,800	3,900	26,008	1,140	
		12	32,646	58	100	290	32,808	23,070	1,800	100	2,800	3,900	26,008	1,140	
		19	32,646	58	100	290	32,808	23,070	1,800	100	2,800	3,900	26,008	1,140	
		26	32,646	58	100	290	32,808	22,839	1,800	100	2,800	3,900	26,008	1,370	
2008	February	2	32,649	58	100	290	32,808	22,562	1,800	100	3,100	3,900	25,708	1,350	
		9	32,649	58	100	290	32,808	22,532	1,800	200	3,100	3,900	25,608	1,280	
		16	32,649	58	100	290	32,808	22,260	1,800	600	3,100	3,900	25,208	1,150	
		23	32,649	58	100	290	32,808	21,236	1,800	600	3,100	0	29,108	6,070	
2008	March	1	32,672	58	100	290	32,828	20,874	1,800	2,400	2,200	0	28,228	5,550	
		8	32,672	58	100	290	32,828	20,671	1,800	2,700	2,200	0	27,928	5,460	
		15	32,672	58	100	290	32,828	20,292	1,800	4,000	2,200	0	26,628	4,540	
		22	32,672	58	100	290	32,828	19,706	1,800	3,600	2,200	0	27,028	5,520	
		29	32,673	58	100	290	32,828	19,194	1,800	4,500	2,700	0	25,628	4,630	
2008	April	5	32,673	58	100	290	32,828	18,934	1,800	6,200	2,700	0	23,928	3,190	
		12	32,673	58	100	290	32,828	18,405	1,800	6,400	2,700	0	23,728	3,520	
		19	32,673	58	100	290	32,828	18,131	1,800	5,700	2,700	0	24,428	4,500	
		26	32,673	58	100	290	32,828	18,103	1,800	5,600	2,700	0	24,528	4,630	
2008	May	3	32,673	58	100	290	32,828	21,067	1,800	6,100	3,400	0	23,328	460	
		10	32,673	58	100	290	32,828	22,046	1,800	4,900	3,400	0	24,528	680	
		17	32,673	58	100	290	32,828	22,955	1,800	5,200	3,400	0	24,228	(530)	Action 6
		24	32,673	58	100	290	32,828	23,953	1,800	2,600	3,400	0	26,828	1,080	
2008	June	31	30,390	58	200	290	30,648	27,885	1,800	0	2,800	0	27,848	(1,840)	Action 11
		7	30,390	58	200	290	30,648	27,885	1,800	0	2,800	0	27,848	(1,840)	Action 11
		14	30,390	58	200	290	30,648	27,885	1,800	0	2,800	0	27,848	(1,840)	Action 11
		21	30,390	58	200	290	30,648	27,885	1,800	0	2,800	0	27,848	(1,840)	Action 11
		28	30,344	58	200	290	30,598	27,885	1,800	0	2,100	0	28,498	(1,190)	Action 11
2008	July	5	30,344	58	200	290	30,598	27,885	1,800	0	2,100	0	28,498	(1,190)	Action 11
		12	30,344	58	200	290	30,598	27,885	1,800	0	2,100	0	28,498	(1,190)	Action 11
		19	30,344	58	200	290	30,598	27,885	1,800	0	2,100	0	28,498	(1,190)	Action 11
		26	30,344	58	200	290	30,598	27,885	1,800	0	2,100	0	28,498	(1,190)	Action 11
2008	August	2	30,329	58	200	290	30,588	27,885	1,800	0	2,100	0	28,488	(1,200)	Action 11
		9	30,329	58	200	290	30,588	27,885	1,800	0	2,100	0	28,488	(1,200)	Action 11
		16	30,329	58	200	290	30,588	27,885	1,800	0	2,100	0	28,488	(1,200)	Action 11
		23	30,329	58	200	290	30,588	27,885	1,800	0	2,100	0	28,488	(1,200)	Action 11
		30	30,324	58	200	290	30,578	25,643	1,800	0	2,100	0	28,478	1,040	
2008	September	6	30,324	58	200	290	30,578	24,257	1,800	700	2,100	0	27,778	1,720	
		13	30,324	58	200	290	30,578	23,889	1,800	600	2,100	0	27,878	2,190	
		20	30,324	58	200	290	30,578	23,797	1,800	1,000	2,100	0	27,478	1,880	
		27	32,633	58	200	290	32,888	18,380	1,800	1,700	2,800	0	28,388	8,210	
2008	October	4	32,633	58	200	290	32,888	18,417	1,800	3,700	2,800	0	26,388	6,170	
		11	32,633	58	200	290	32,888	19,390	1,800	4,100	2,800	0	25,988	4,800	
		18	32,633	58	200	290	32,888	19,773	1,800	4,700	2,800	0	25,388	3,820	
		25	32,633	58	200	290	32,888	19,990	1,800	3,600	2,800	0	26,488	4,700	
2008	November	1	32,663	58	200	290	32,918	20,112	1,800	2,900	3,600	0	26,418	4,510	
		8	32,663	58	200	290	32,918	20,474	1,800	2,600	3,600	0	26,718	4,440	
		15	32,663	58	200	290	32,918	21,250	1,800	1,200	3,600	0	28,118	5,070	
		22	32,663	58	200	290	32,918	22,008	1,800	1,100	3,600	0	28,218	4,410	
		29	32,660	58	200	290	32,918	22,218	1,800	2,000	3,200	0	27,718	3,700	
2008	December	6	32,660	58	200	290	32,918	22,522	1,800	400	3,200	0	29,318	5,000	
		13	32,660	58	200	290	32,918	22,534	1,800	400	3,200	0	29,318	4,980	
		20	32,660	58	200	290	32,918	22,599	1,800	0	3,200	0	29,718	5,320	
		27	32,660	58	200	290	32,918	22,599	1,800	0	3,200	0	29,718	5,320	

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 October 1, 2007 SCC report, Energy Management System units, with an adjustment for capability increases and decreases expected during the analysis period (SCC = Seasonal Claimed Capability). 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 Capability)
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

