



**Joanne Bialas**  
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

**Subject: 2009 Annual Maintenance Schedule – January Edition**

Date: January 5, 2009

Following this transmittal letter, you will find the 2009 Annual Maintenance Schedule (AMS) – January Edition dated January 5, 2009, 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 – JANUARY EDITION - DATED JANUARY 5, 2009**

The January Edition of the 2009 AMS - dated January 5, 2009 reflects all planned maintenance requests for 2009 that have been submitted to the ISO through January 2, 2009. 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 1,740 MW for weeks beginning May 30<sup>th</sup>, June 6<sup>th</sup>, 13<sup>th</sup>, and 20<sup>th</sup>. Negative capacity margins are being calculated for the remaining peak load exposure weeks during June, July, and August with positive capacity margins being calculated for the rest 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 January 1, 2009 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 edition of the 2009 AMS.

Only known capacity-backed (ICAP) contracts have been included in the Interchange column of the 2009 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

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 2009 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).

# 2009 ANNUAL MAINTENANCE SCHEDULE

Edition: January Edition dated January 5, 2009

Information Received through January 2, 2009

Dates indicate Saturday week beginning

Sorted by Area and Local Control Center

										2009																																																							
										Dec				January				February				March								April				May				June				July				August				September				October				November				December			
Plant Name	Asset ID	S. Name	RSP	LCC	Company	Blackstart	Type	WCC	SCC	27	3	10	17	24	31	7	14	21	28	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	3	10	17	24	31	7	14	21	28	5	12	19	26			
										round	planned	TOTAL																																																					
										300	800	500	500	400	800	800	800	500	1500	2000	2200	2900	3100	5300	5500	5200	6000	6000	4000	2500	1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	300	1000	1500	4000	5300	5300	4600	3900	3300	3300	2300	900	1100	100	100	0	0

# ISO-NE 2009 OPERABLE CAPACITY ANALYSIS

## January 5, 2009 - 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] (MW)	Extent of OP 4 Actions That May Be Necessary (OP 4 Actions up to and including) [Note 13]
2009	January	3	33,378	948	200	290	34,528	23,030	1,800	800	2,800	3,900	27,028	2,200	
		10	33,378	948	200	290	34,528	23,030	1,800	500	2,800	3,900	27,328	2,500	
		17	33,378	948	200	290	34,528	23,030	1,800	500	2,800	3,900	27,328	2,500	
		24	33,378	948	200	290	34,528	22,800	1,800	400	2,800	3,900	27,428	2,830	
		31	33,378	48	200	290	33,628	22,523	1,800	800	2,800	3,900	26,128	1,810	
2009	February	7	33,384	48	200	290	33,628	22,493	1,800	800	3,100	3,900	25,828	1,540	
		14	33,384	48	200	290	33,628	22,222	1,800	800	3,100	3,900	25,828	1,810	
		21	33,384	48	200	290	33,628	21,199	1,800	500	3,100	0	30,028	7,030	
		28	33,384	48	200	290	33,628	20,838	1,800	1,500	3,100	0	29,028	6,390	
2009	March	7	33,430	48	200	290	33,678	20,635	1,800	2,000	2,200	0	29,478	7,040	
		14	33,430	48	200	290	33,678	20,257	1,800	2,200	2,200	0	29,278	7,220	
		21	33,430	48	200	290	33,678	19,672	1,800	2,900	2,200	0	28,578	7,110	
		28	33,430	48	200	290	33,678	19,161	1,800	3,100	2,200	0	28,378	7,420	
2009	April	4	33,432	48	300	290	33,778	18,901	1,800	5,300	2,700	0	25,778	5,080	
		11	33,432	48	300	290	33,778	18,373	1,800	5,500	2,700	0	25,578	5,410	
		18	33,432	48	300	290	33,778	18,099	1,800	5,200	2,700	0	25,878	5,980	
		25	33,432	48	300	290	33,778	18,072	1,800	6,000	2,700	0	25,078	5,210	
2009	May	2	33,432	48	300	290	33,778	21,517	1,800	6,000	3,400	0	24,378	1,060	Action 11
		9	33,432	48	300	290	33,778	22,516	1,800	4,000	3,400	0	26,378	2,060	Action 11
		16	33,432	48	300	290	33,778	23,445	1,800	2,500	3,400	0	27,878	2,630	Action 11
		23	33,432	48	300	290	33,778	24,464	1,800	1,600	3,400	0	28,778	2,510	Action 11
		30	30,988	48	300	290	31,338	28,480	1,800	0	2,800	0	28,538	(1,740)	Action 11
2009	June	6	30,988	48	300	290	31,338	28,480	1,800	0	2,800	0	28,538	(1,740)	Action 11
		13	30,988	48	300	290	31,338	28,480	1,800	0	2,800	0	28,538	(1,740)	Action 11
		20	30,988	48	300	290	31,338	28,480	1,800	0	2,800	0	28,538	(1,740)	Action 11
		27	30,896	48	300	290	31,248	28,480	1,800	0	2,100	0	29,148	(1,130)	Action 9
2009	July	4	30,896	48	400	290	31,348	28,480	1,800	0	2,100	0	29,248	(1,030)	Action 9
		11	30,896	48	400	290	31,348	28,480	1,800	0	2,100	0	29,248	(1,030)	Action 9
		18	30,896	48	400	290	31,348	28,480	1,800	0	2,100	0	29,248	(1,030)	Action 9
		25	30,896	48	400	290	31,348	28,480	1,800	0	2,100	0	29,248	(1,030)	Action 9
2009	August	1	30,896	48	400	290	31,348	28,480	1,800	0	2,100	0	29,248	(1,030)	Action 9
		8	30,865	48	400	290	31,308	28,480	1,800	0	2,100	0	29,208	(1,070)	Action 9
		15	30,865	48	400	290	31,308	28,480	1,800	0	2,100	0	29,208	(1,070)	Action 9
		22	30,865	48	400	290	31,308	28,480	1,800	0	2,100	0	29,208	(1,070)	Action 9
		29	30,865	48	400	290	31,308	26,190	1,800	100	2,100	0	29,108	1,120	
2009	September	5	30,859	48	400	290	31,308	24,775	1,800	300	2,100	0	28,908	2,330	
		12	30,859	48	400	290	31,308	24,399	1,800	1,000	2,100	0	28,208	2,010	
		19	30,859	48	400	290	31,308	24,305	1,800	1,500	2,100	0	27,708	1,600	
		26	30,859	48	400	290	31,308	18,337	1,800	4,000	2,100	0	25,208	5,070	
2009	October	3	30,859	48	400	290	31,308	18,374	1,800	5,300	2,800	0	23,208	3,030	
		10	33,434	48	400	290	33,878	19,344	1,800	5,300	2,800	0	25,778	4,630	
		17	33,434	48	400	290	33,878	19,726	1,800	4,600	2,800	0	26,478	4,950	
		24	33,434	48	400	290	33,878	19,943	1,800	3,900	2,800	0	27,178	5,440	
		31	33,434	48	400	290	33,878	20,065	1,800	3,300	3,600	0	26,978	5,110	
2009	November	7	33,493	48	400	290	33,938	20,426	1,800	3,300	3,600	0	27,038	4,810	
		14	33,493	48	400	290	33,938	21,200	1,800	2,300	3,600	0	28,038	5,040	
		21	33,493	48	400	290	33,938	21,956	1,800	900	3,600	0	29,438	5,680	
		28	33,493	48	400	290	33,938	22,166	1,800	1,100	3,600	0	29,238	5,270	
2009	December	5	33,488	48	400	290	33,938	22,469	1,800	100	3,200	0	30,638	6,370	
		12	33,488	48	400	290	33,938	22,480	1,800	100	3,200	0	30,638	6,360	
		19	33,488	48	400	290	33,938	22,546	1,800	0	3,200	0	30,738	6,390	
		26	33,488	48	400	290	33,938	22,265	1,800	0	3,200	0	30,738	6,670	
		2	33,488	58	0	290	33,548	22,599	1,800	100	3,200	0	30,248	5,850	

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 January 1, 2009 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

