



**Joanne Bialas**  
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

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

Date: August 5, 2009

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

The August Edition of the 2009 AMS - dated August 5, 2009 reflects all planned maintenance requests for 2009 that have been submitted to the ISO through August 3, 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 positive 1,250 MW for week beginning September 19<sup>th</sup>. 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 22,115 MW and 27,875 MW respectively, and reflect the seasonal peak loads based on data in the 2009 CELT Report. After being adjusted for Other Demand Resources, ODR, the highest summer peak load exposure is 27,385 MW.

**Generating Unit Capabilities**

Generating unit capabilities are based upon the August 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 2009 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: August Edition dated August 5, 2009

Information Received through August 3, 2009

Dates indicate Saturday week beginning

Sorted by Area and Local Control Center

Plant Name	Asset ID	S. Name	RSP	LCC	Current Lead Participant	Blackstart	Type	WCC	SCC	August				September				October					November				December											
										1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19	26							
										0	0	100	100	500	700	1700	2800	4900	6300	6400	6400	6300	5400	5300	4000	1300	1700	1300	600	0	100							
										ed	planned	TOTAL																										

# ISO-NE 2009 OPERABLE CAPACITY ANALYSIS

## August 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 Capability (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 (MW)	Allowance for Unplanned Outages [Note 8] (MW)	Generation at Risk Due to Gas Supply [Note 9] (MW)	Total Capacity (MW)	Operable Capacity Margin (+/-) (MW)	Extent of OP 4 Actions That May be Necessary (OP 4 Actions up to and including) [Note 10]
2009	August	1	31,166	1,516	0	290	32,686	27,369	1,800	0	2,100	0	30,586	1,420	
		8	31,166	1,516	0	290	32,686	27,369	1,800	0	2,100	0	30,586	1,420	
		15	31,166	1,516	0	290	32,686	27,369	1,800	100	2,100	0	30,486	1,320	
		22	31,166	1,516	0	290	32,686	27,369	1,800	100	2,100	0	30,486	1,320	
		29	31,166	58	0	290	31,228	25,128	1,800	500	2,100	0	28,628	1,700	
2009	September	5	31,166	58	0	290	31,228	23,734	1,800	700	2,100	0	28,428	2,890	
		12	31,166	58	0	290	31,228	23,367	1,800	1,700	2,100	0	27,428	2,260	
		19	31,166	58	0	290	31,228	23,275	1,800	2,800	2,100	0	26,328	1,250	
		26	31,166	58	0	290	31,228	16,863	1,800	4,900	2,100	0	24,228	5,570	
		3	31,166	58	0	290	31,228	16,890	1,800	6,300	2,800	0	22,128	3,440	
2009	October	10	33,404	58	0	290	33,458	17,809	1,800	6,400	2,800	0	24,258	4,650	
		17	33,404	58	0	290	33,458	18,171	1,800	6,400	2,800	0	24,258	4,290	
		24	33,404	58	0	290	33,458	18,377	1,800	6,300	2,800	0	24,358	4,180	
		31	33,404	58	0	290	33,458	18,483	1,800	5,400	3,600	0	24,458	4,180	
		7	33,404	58	0	290	33,458	18,825	1,800	5,300	3,600	0	24,558	3,930	
2009	November	14	33,404	58	0	290	33,458	19,559	1,800	4,000	3,600	0	25,858	4,500	
		21	33,404	58	0	290	33,458	20,275	1,800	1,300	3,600	0	28,558	6,480	
		28	33,404	58	0	290	33,458	20,464	1,800	1,700	3,600	0	28,158	5,890	
		5	33,404	58	100	290	33,558	20,751	1,800	1,300	3,200	0	29,058	6,510	
		12	33,404	58	100	290	33,558	20,762	1,800	600	3,200	0	29,758	7,200	
2009	December	19	33,404	58	100	290	33,558	20,824	1,800	0	3,200	0	30,358	7,730	
		26	33,404	58	100	290	33,558	21,096	1,800	100	3,200	0	30,258	7,360	

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

- Installed Capacity per the August 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.
- Net Interchange is based on known capacity-backed (ICAP) contracts. This column combines monthly data, as it becomes available, with preliminary contract totals recorded in the 2009 Capacity, Energy, Loads, and Transmission - CELT Report.
- 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.
- Delisted capacity is only known for the current month. Projections are based on known delisted capacity sales.
- 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).
- Peak Load Exposure per data included in the 2009 CELT Report with an adjustment for Other Demand Resources.
- Operating Reserve Requirement based on first largest contingency plus 1/2 the second largest contingency.
- Allowance for Unplanned Outages includes forced outages and maintenance outages scheduled less than 14 days in advance.
- Generation at Risk due to Gas Supply pertains to gas fired capacity expected to be at risk during cold weather conditions.
- Relief from certain OP 4 Actions varies depending on system conditions.

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

