

#### Joanne Bialas

**Outage Coordination** 

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2009 Annual Maintenance Schedule – February Edition

Date: February 5, 2009

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

The February Edition of the 2009 AMS - dated February 5, 2009 reflects all planned maintenance requests for 2009 that have been submitted to the ISO through February 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.

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2009 Annual Maintenance Schedule – February Edition Page 2 of 2

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.

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# 2009 ANNUAL MAINTENANCE SCHEDULE

Edition: February Edition dated February 5, 2009

Information Received through February 2, 2009

Page 1 of 1 Dates indicate Saturday week beginning

Sorted by Area and Local Control Center

				March		April	May	June		July	August	September	October	November	December	
Plant Name	Asset ID S. Name RSI	LCC Company Blackstart Type WCC SCC	7 14 21	28 7 14 21	28	4 11 18 25	2 9 16 23	30 6 13 20	27	7 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
					_			_			_					
		ed planned TOTAL	600 600 400	1600 2100 2200 2900	3300	4700 4700 5500 5800	5000 4500 3100 1600	0 0 0 0	0	0 0 0 0 0	0 0 0 0	500 700 1300 1800	3800 5100 5200 4500 4100	4100 4200 3300 1300	1400 500 100	0 100
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# ISO-NE 2009 OPERABLE CAPACITY ANALYSIS

#### February 2, 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.

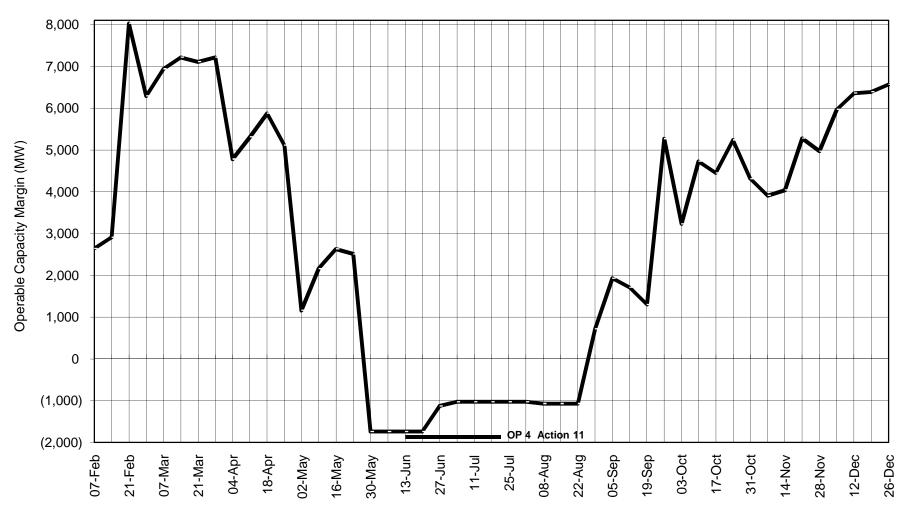
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WOOK De	giiriiig, Saturde	ay .		1	г	1					1	1		1		
			Installed Seasonal Claimed Capability	Net Interchange (NYPP, NB, HQ.		New	De-listed ICAP		Peak Load	Operating Reserve		Allowance for Unplanned	Generation at Risk Due to		Operable	Extent of OP 4 Actions That May be Necessary (OF 4 Actions up to
			(SCC)	Highgate)	>	Generation	resources	Net Capacity	Exposure	Requirement	Total Known	Outages	Gas Supply	Total	Capacity	and including)
Year	Month	Day	[Note 1]	[Note 2]	Note	[Note 3]	[Note 4]	[Note 5]	[Note 6]	[Note 7]	Maintenance	[Note 8]	[Note 9]	Capacity	Margin (+/-)	[Note 10]
			(MW)	(MW)	v	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	,
2009	February	7	33,384	948		200	290	34,528	22,493	1,800	600	3,100	3,900	26,928	2,640	
2009	ŕ	14	33,384	948	Т	200	290	34,528	22,222	1,800	600	3,100	3,900	26,928	2,910	
		21	33,384	948	Г	200	290	34,528	21,199	1,800	400	3,100	0	31,028	8,030	
		28	33,384	48	Г	200	290	33,628	20,838	1,800	1,600	3,100	0	28,928	6,290	
	March	7	33,430	48		200	290	33,678	20,635	1,800	2,100	2,200	0	29,378	6,940	
		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	3,300	2,200	0	28,178	7,220	
2009	April	4	33,432	48		300	290	33,778	18,901	1,800	5,600	2,700	0	25,478	4,780	
		11	33,432	48		300	290	33,778	18,373	1,800	5,600	2,700	0	25,478	5,310	
		18	33,432	48		300	290	33,778	18,099	1,800	5,300	2,700	0	25,778	5,880	
		25	33,432	48		300	290	33,778	18,072	1,800	6,100	2,700	0	24,978	5,110	
2009	May	2	33,432	48		300	290	33,778	21,517	1,800	5,900	3,400	0	24,478	1,160	
		9	33,432	48		300	290	33,778	22,516	1,800	3,900	3,400	0	26,478	2,160	
		16	33,432	48		300	290	33,778	23,445	1,800	2,500	3,400	0	27,878	2,630	
		23	33,432	48		300	290	33,778	24,464	1,800	1,600	3,400	0	28,778	2,510	
		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	500	2,100	0	28,708	720	
2009	September	5	30,859	48		400	290	31,308	24,775	1,800	700	2,100	0	28,508	1,930	
		12	30,859	48		400	290	31,308	24,399	1,800	1,300	2,100	0	27,908	1,710	
		19	30,859	48	L	400	290	31,308	24,305	1,800	1,800	2,100	0	27,408	1,300	
		26	30,859	48	L	400	290	31,308	18,337	1,800	3,800	2,100	0	25,408	5,270	
2009	October	3	30,859	48	L	400	290	31,308	18,374	1,800	5,100	2,800	0	23,408	3,230	
		10	33,434	48	L	400	290	33,878	19,344	1,800	5,200	2,800	0	25,878	4,730	
		17	33,434	48	L	400	290	33,878	19,726	1,800	5,100	2,800	0	25,978	4,450	
		24	33,434	48	L	400	290	33,878	19,943	1,800	4,100	2,800	0	26,978	5,240	
0000		31	33,434	48	L	400	290	33,878	20,065	1,800	4,100	3,600	0	26,178	4,310	
2009	November	7	33,493	48	L	400	290	33,938	20,426	1,800	4,200	3,600	0	26,138	3,910	
		14	33,493	48	L	400	290	33,938	21,200	1,800	3,300	3,600	0	27,038	4,040	
		21	33,493	48	L	400	290	33,938	21,956	1,800	1,300	3,600	0	29,038	5,280	
0000		28	33,493	48	L	400	290	33,938	22,166	1,800	1,400	3,600	0	28,938	4,970	
2009	December	5	33,488	48	L	400	290	33,938	22,469	1,800	500	3,200	0	30,238	5,970	
		12	33,488	48	L	400	290	33,938	22,480	1,800	100	3,200	0	30,638	6,360	
		19	33,488	48	L	400	290	33,938	22,546	1,800	0	3,200	0	30,738	6,390	
1		26	33,488	48	Ļ	400	290	33,938	22,265	1,800	100	3,200	0 alize during anv	30,638	6,570	

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 Capability per the January 1, 2009 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 Capability 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 Capability 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 De-listed ICAP sold are rounded to the nearest ten (SCC = Seasonal Claimed Capability).
- 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.
- Relief from certain OP 4 Actions varies depending on system conditions.

1 OF 1 02/05/2009 02:43 PM

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



February - December 2009, W/B Saturday