Joanne Bialas
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2009 Annual Maintenance Schedule – Draft #2

Date: August 15, 2008

Following this transmittal letter, you will find the 2009 Annual Maintenance Schedule (AMS) – Draft #2 dated August 15, 2008, 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 – DRAFT #2 - DATED AUGUST 15, 2008

Draft #2 of the 2009 AMS - dated August 15, 2008 reflects all planned maintenance requests for 2009 that have been submitted to the ISO through August 13, 2008. 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 1,980 MW for weeks beginning May 30th, June 6th, 13th, and 20st. Negative capacity margins are also being forecasted for all remaining weeks in June, July and August, with positive capacity margins for the remaining weeks 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 August 1, 2008 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 2009 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 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

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.

2009 ANNUAL MAINTENANCE SCHEDULE

Edition: Draft #2

Information Received through August 13, 2008 **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	0	0	100	0	0	200	200	200	200	500	600	300	400	700	2100	2200	2000	2800	2500	1000	900	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	700	1300	3100	4600	4600	4800	3900	3400	2200	800	800	0	0	0	0	0

ISO-NE 2009 OPERABLE CAPACITY ANALYSIS

August 15, 2008 - 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]	Net Interchange (NYPP, NB, HQ, Highgate) [Note 2]	Note	New Generation [Note 3]	De-listed ICAP resources [Note 4]	Net Capacity [Note 5]	Peak Load Exposure [Note 6]	Operating Reserve Requirement [Note 7]	Total Known Maintenance	Allowance for Unplanned Outages [Note 8]	Generation at Risk Due to Gas Supply [Note 9]	Total Capacity	Operable Capacity Margin (+/-)	*Extent of OP 4 Actions That May be Necessary (OP 4 Actions up to and including)* [Note 10]
			(MW)	*(MW)*		*(MW)*	*(MW)*	*(MW)*	*(MW)*	*(MW)*	*(MW)*	*(MW)*	*(MW)*	*(MW)*	*(MW)*	
2008	**December**	**27**	32,117	48		300	290	32,468	22,549	1,800	0	2,000	0	30,468	6,120	
2009	January	3	32,117	48		300	290	32,468	23,030	1,800	0	2,800	0	29,668	4,840	
		10	32,117	48		300	290	32,468	23,030	1,800	100	2,800	3,900	25,668	840	
		17	32,117	48		300	290	32,468	23,030	1,800	0	2,800	3,900	25,768	940	
		24	32,117	48		300	290	32,468	22,800	1,800	0	2,800	3,900	25,768	1,170	
		31	32,117	48		300	290	32,468	22,523	1,800	200	2,800	3,900	25,568	1,250	
2009	February	7	32,119	48		300	290	32,468	22,493	1,800	200	3,100	3,900	25,268	980	
		14	32,119	48		300	290	32,468	22,222	1,800	200	3,100	3,900	25,268	1,250	
		21	32,119	48		300	290	32,468	21,199	1,800	200	3,100	3,900	25,268	2,270	
		28	32,119	48		300	290	32,468	20,838	1,800	500	3,100	0	28,868	6,230	
2009	March	7	32,142	48		300	290	32,488	20,635	1,800	600	2,200	0	29,688	7,250	
		14	32,142	48		300	290	32,488	20,257	1,800	300	2,200	0	29,988	7,930	
		21	32,142	48		300	290	32,488	19,672	1,800	400	2,200	0	29,888	8,420	
		28	32,142	48		300	290	32,488	19,161	1,800	700	2,200	0	29,588	8,630	
2009	April	4	32,144	48		300	290	32,488	18,901	1,800	2,100	2,700	0	27,688	6,990	
		11	32,144	48		300	290	32,488	18,373	1,800	2,200	2,700	0	27,588	7,420	
		18	32,144	48		300	290	32,488	18,099	1,800	2,000	2,700	0	27,788	7,890	
		25	32,144	48		300	290	32,488	18,072	1,800	2,800	2,700	0	26,988	7,120	
2009	May	2	32,144	48		300	290	32,488	21,517	1,800	2,500	3,400	0	26,588	3,270	
		9	32,144	48		300	290	32,488	22,516	1,800	1,000	3,400	0	28,088	3,770	
		16	32,144	48		300	290	32,488	23,445	1,800	900	3,400	0	28,188	2,940	
		23	32,144	48		300	290	32,488	24,464	1,800	600	3,400	0	28,488	2,220	
		30	30,749	48		300	290	31,098	28,480	1,800	0	2,800	0	28,298	(1,980)	Action 11
2009	June	6	30,749	48		300	290	31,098	28,480	1,800	0	2,800	0	28,298	(1,980)	Action 11
		13	30,749	48		300	290	31,098	28,480	1,800	0	2,800	0	28,298	(1,980)	Action 11
		20	30,749	48		300	290	31,098	28,480	1,800	0	2,800	0	28,298	(1,980)	Action 11
		27	30,703	48		300	290	31,048	28,480	1,800	0	2,100	0	28,948	(1,330)	Action 11
2009	July	4	30,703	48		300	290	31,048	28,480	1,800	0	2,100	0	28,948	(1,330)	Action 11
		11	30,703	48		300	290	31,048	28,480	1,800	0	2,100	0	28,948	(1,330)	Action 11
		18	30,703	48		300	290	31,048	28,480	1,800	0	2,100	0	28,948	(1,330)	Action 11
		25	30,703	48		300	290	31,048	28,480	1,800	0	2,100	0	28,948	(1,330)	Action 11
2009	August	1	30,703	48		300	290	31,048	28,480	1,800	0	2,100	0	28,948	(1,330)	Action 11
		8	30,688	48		300	290	31,038	28,480	1,800	0	2,100	0	28,938	(1,340)	Action 11
		15	30,688	48		300	290	31,038	28,480	1,800	0	2,100	0	28,938	(1,340)	Action 11
		22	30,688	48		300	290	31,038	28,480	1,800	0	2,100	0	28,938	(1,340)	Action 11
		29	30,688	48		300	290	31,038	26,190	1,800	0	2,100	0	28,938	950	
2009	September	5	30,682	48		300	290	31,028	24,775	1,800	100	2,100	0	28,828	2,250	
		12	30,682	48		300	290	31,028	24,399	1,800	700	2,100	0	28,228	2,030	
		19	30,682	48		300	290	31,028	24,305	1,800	1,300	2,100	0	27,628	1,520	
		26	30,682	48		300	290	31,028	18,337	1,800	3,100	2,100	0	25,828	5,690	
2009	October	3	30,682	48		300	290	31,028	18,374	1,800	4,600	2,800	0	23,628	3,450	
		10	32,185	48		300	290	32,528	19,344	1,800	4,600	2,800	0	25,128	3,980	
		17	32,185	48		300	290	32,528	19,726	1,800	4,800	2,800	0	24,928	3,400	
		24	32,185	48		300	290	32,528	19,943	1,800	3,900	2,800	0	25,828	4,090	
		31	32,185	48		300	290	32,528	20,065	1,800	3,400	3,600	0	25,528	3,660	
2009	November	7	32,215	48		300	290	32,558	20,426	1,800	2,200	3,600	0	26,758	4,530	
		14	32,215	48		300	290	32,558	21,200	1,800	800	3,600	0	28,158	5,160	
		21	32,215	48		300	290	32,558	21,956	1,800	800	3,600	0	28,158	4,400	
		28	32,215	48		300	290	32,558	22,166	1,800	0	3,600	0	28,958	4,990	
2009	December	5	32,212	48		300	290	32,558	22,469	1,800	0	3,200	0	29,358	5,090	
		12	32,212	48		300	290	32,558	22,480	1,800	0	3,200	0	29,358	5,080	
		19	32,212	48		300	290	32,558	22,546	1,800	0	3,200	0	29,358	5,010	
		26	32,212	48		300	290	32,558	22,265	1,800	0	3,200	0	29,358	5,290	

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 Capability per the August 1, 2008 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.
10. Relief from certain OP 4 Actions varies depending on system conditions.

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