



Joanne Bialas
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2014-15 First Future Year Annual Maintenance Schedule – Draft #1

Date: February 14, 2014

Following this transmittal letter, you will find the 2014-15 First Future Year Annual Maintenance Schedule (AMS) – Draft #1 dated February 14, 2014 which reflects all planned maintenance requests and also includes any known long-term Forced Outages outage requests submitted through February 3, 2014. This schedule covers the fourth Forward Capacity Market procurement period from June 1, 2014 through May 31, 2015. Participants that own entitlements in units must contact the Lead Participant to obtain the maintenance schedule for each unit.

2014-15 AMS – DRAFT #1 - DATED FEBRUARY 14, 2014

Draft #1 of the 2014-15 AMS - dated February 14, 2014 reflects all planned maintenance requests for June 1, 2014- May 31, 2015 that have been submitted to the ISO through February 3, 2014. Those generator owners who have not yet submitted their anticipated maintenance schedules for Procurement Period 2014-15 are encouraged to do so.

2014-15 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for June 1, 2014 through May 31, 2015 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of negative 1,372 MW for weeks beginning May 31st, June 7th, 14th, and 21st. *Please note that there may be generation outages due to gas pipeline outages that are currently tentatively scheduled for some weeks in, summer, and early-fall that may further decrease the operable capacity margin.*

Peak Load Exposures (PLE)

After being adjusted for Passive Demand Resources (PDR) the Peak Load Exposure (PLE) for the summer and winter of 2014-15 are 26,929 MW and 21,272 MW respectively, and reflects the seasonal peak load based on the 2013 CELT Report.

Generating Unit Capabilities

Resource Capacity Supply Obligations, CSO, are based upon data as of January 31, 2014 and includes Energy Management System (EMS) assets only. New unit additions are factored into the Non-Commercial Capacity MW respecting forecasted in-service dates.

Interchange

External Node Available Capacity MW is based on the sum of external import and export CSO.

Unplanned Outage Allotment

Allowances for unplanned outages, as documented in ISO New England SOP-OUTSCH.0030.0040 range from 2,100 MW to 3,600 MW during the winter and summer months.

External Transmission

Transmission outages of NYISO, NBSO, and Hydro-Quebec are included in the analysis when the CSO is impacted.

Weekly Operating Reserve

The weekly operating reserve is equal to one hundred twenty five percent (125%) 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 capacity that may be unavailable due to cold weather conditions or gas pipeline outages.

If you have any questions or comments concerning this edition of the 2013-14 AMS or Operable Capacity Analysis or if you have any comments or suggestions please feel free to contact Rachel Wilkins-Thurman at (413) 540-4261 or Joanne Bialas at (413) 535-4162 or by email at opamoreq@iso-ne.com.

ISO-NE 2014 OPERABLE CAPACITY ANALYSIS

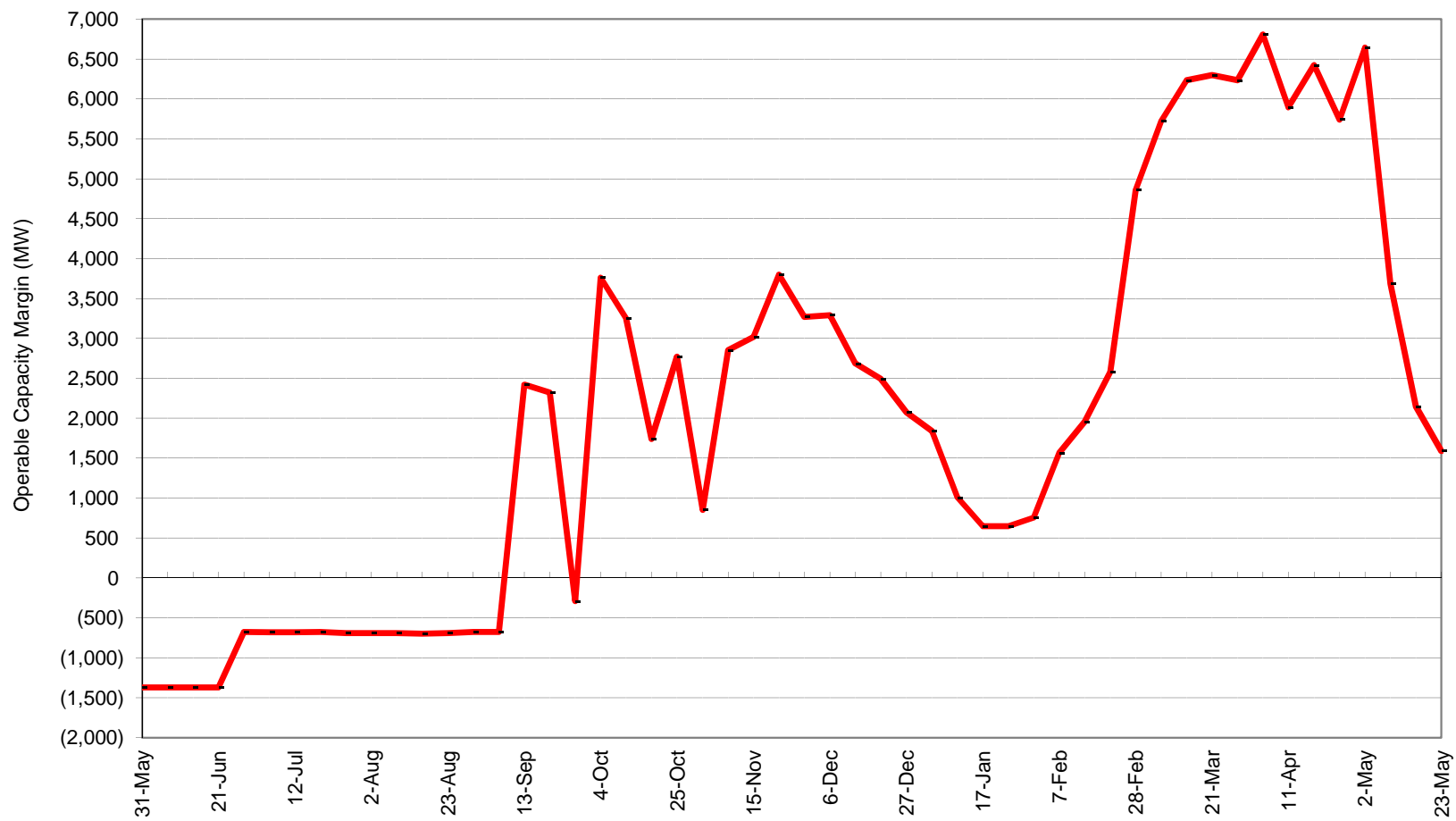
February 14, 2014 - 50/50- FORECAST - CSO

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 and Mid September.

STUDY WEEK (Week Beginning, Saturday)	OPCAP SUPPLY							LOAD OBLIGATIONS				OPCAP MARGINS				
	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL CAPACITY MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES CSO MW	ALLOWANCE FOR UNPLANNED OUTAGES MW	GAS AT RISK MW	NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREMENT MW	NET LOAD OBLIGATION MW	OPCAP MARGIN MW	OPCAP FROM OP4 ACTIVE REAL-TIME DR MW	OPCAP MARGIN w/ OP4 actions through OP4 Step 2 MW	OPCAP FROM OP4 REAL-TIME EMER. GEN MW	OPCAP MARGIN w/ OP4 actions through OP4 Step 6 MW	
	[1]	[2]	[3]	[4]	[5]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	
5/31/2014	29,129	1,535	68	0	2,800	0	27,932	26,929	2,375	29,304	(1,372)	665	(707)	234	(473)	
6/7/2014	29,129	1,535	68	0	2,800	0	27,932	26,929	2,375	29,304	(1,372)	665	(707)	234	(473)	
6/14/2014	29,129	1,535	68	0	2,800	0	27,932	26,929	2,375	29,304	(1,372)	665	(707)	234	(473)	
6/21/2014	29,129	1,535	68	0	2,800	0	27,932	26,929	2,375	29,304	(1,372)	665	(707)	234	(473)	
6/28/2014	29,129	1,535	68	4	2,100	0	28,628	26,929	2,375	29,304	(676)	665	(11)	234	223	
7/5/2014	29,129	1,535	68	8	2,100	0	28,624	26,929	2,375	29,304	(680)	665	(15)	234	219	
7/12/2014	29,129	1,535	68	8	2,100	0	28,624	26,929	2,375	29,304	(680)	665	(15)	234	219	
7/19/2014	29,129	1,535	68	4	2,100	0	28,628	26,929	2,375	29,304	(676)	665	(11)	234	223	
7/26/2014	29,129	1,535	68	17	2,100	0	28,615	26,929	2,375	29,304	(689)	665	(24)	234	210	
8/2/2014	29,129	1,535	68	17	2,100	0	28,615	26,929	2,375	29,304	(689)	665	(24)	234	210	
8/9/2014	29,129	1,535	68	17	2,100	0	28,615	26,929	2,375	29,304	(689)	665	(24)	234	210	
8/16/2014	29,129	1,535	68	26	2,100	0	28,606	26,929	2,375	29,304	(698)	665	(33)	234	201	
8/23/2014	29,129	1,535	68	17	2,100	0	28,615	26,929	2,375	29,304	(689)	665	(24)	234	210	
8/30/2014	29,129	1,535	68	4	2,100	0	28,628	26,929	2,375	29,304	(676)	665	(11)	234	223	
9/6/2014	29,129	1,535	68	4	2,100	0	28,628	26,929	2,375	29,304	(676)	665	(11)	234	223	
9/13/2014	29,129	1,535	68	589	2,100	0	28,043	23,248	2,375	25,623	2,420	665	3,085	234	3,319	
9/20/2014	29,129	1,535	68	1,060	2,100	0	27,572	22,875	2,375	25,250	2,322	665	2,987	234	3,221	
9/27/2014	29,737	1,065	68	3,204	2,800	0	24,866	22,782	2,375	25,157	(291)	662	371	234	605	
10/4/2014	29,737	871	69	5,308	2,800	0	22,569	16,433	2,375	18,808	3,761	662	4,423	234	4,657	
10/11/2014	29,737	1,065	69	5,976	2,800	0	22,095	16,469	2,375	18,844	3,251	662	3,913	234	4,147	
10/18/2014	29,737	1,065	69	6,544	2,800	0	21,527	17,411	2,375	19,786	1,741	662	2,403	234	2,637	
10/25/2014	29,737	1,065	69	5,142	2,800	0	22,929	17,782	2,375	20,157	2,772	662	3,434	234	3,668	
11/1/2014	29,737	1,065	82	6,063	3,600	0	21,221	17,992	2,375	20,367	854	662	1,516	234	1,750	
11/8/2014	29,737	1,065	82	3,946	3,600	0	23,338	18,110	2,375	20,485	2,853	662	3,515	234	3,749	
11/15/2014	29,737	1,065	82	3,429	3,600	0	23,855	18,461	2,375	20,836	3,019	662	3,681	234	3,915	
11/22/2014	29,737	1,065	82	1,523	3,600	376	25,385	19,212	2,375	21,587	3,798	662	4,460	234	4,694	
11/29/2014	29,890	1,065	86	808	3,200	1,439	25,594	19,948	2,375	22,323	3,271	631	3,902	225	4,127	
12/6/2014	29,890	1,065	86	403	3,200	1,619	25,619	20,152	2,375	22,527	3,292	631	3,923	225	4,148	
12/13/2014	29,890	1,065	86	357	3,200	1,979	25,505	20,446	2,375	22,821	2,684	631	3,315	225	3,540	
12/20/2014	29,890	1,065	86	357	3,200	2,159	25,325	20,457	2,375	22,832	2,493	631	3,124	225	3,349	
12/27/2014	29,890	1,065	89	357	3,200	2,519	24,968	20,521	2,375	22,896	2,072	631	2,703	225	2,928	
1/3/2015	29,890	1,065	89	511	2,800	2,718	25,015	20,799	2,375	23,174	1,841	631	2,472	225	2,697	
1/10/2015	29,890	1,065	89	511	2,800	3,077	24,656	21,272	2,375	23,647	1,009	631	1,640	225	1,865	
1/17/2015	29,890	1,065	89	511	2,800	3,437	24,296	21,272	2,375	23,647	649	631	1,280	225	1,505	
1/24/2015	29,890	1,065	89	511	2,800	3,437	24,296	21,272	2,375	23,647	649	631	1,280	225	1,505	
1/31/2015	29,890	1,065	89	511	3,100	3,257	24,176	21,046	2,375	23,421	755	631	1,386	225	1,611	
2/7/2015	29,890	1,065	89	511	3,100	2,718	24,715	20,774	2,375	23,149	1,566	631	2,197	225	2,422	
2/14/2015	29,890	1,065	89	511	3,100	2,358	25,075	20,745	2,375	23,120	1,955	631	2,586	225	2,811	
2/21/2015	29,890	1,065	89	511	3,100	1,998	25,435	20,478	2,375	22,853	2,582	631	3,213	225	3,438	
2/28/2015	29,890	1,065	89	497	2,200	1,638	26,709	19,473	2,375	21,848	4,861	631	5,492	225	5,717	
3/7/2015	29,890	1,065	89	368	2,200	1,260	27,216	19,118	2,375	21,493	5,723	631	6,354	225	6,579	
3/14/2015	29,890	1,065	89	419	2,200	900	27,525	18,918	2,375	21,293	6,232	631	6,863	225	7,088	
3/21/2015	29,890	1,065	89	1,083	2,200	540	27,221	18,547	2,375	20,922	6,299	631	6,930	225	7,155	
3/28/2015	29,737	1,065	89	1,610	2,700	0	26,581	17,973	2,375	20,348	6,233	662	6,895	234	7,129	
4/4/2015	29,737	1,065	89	1,541	2,700	0	26,650	17,467	2,375	19,842	6,808	662	7,470	234	7,704	
4/11/2015	29,737	1,065	89	2,711	2,700	0	25,480	17,211	2,375	19,586	5,894	662	6,556	234	6,790	
4/18/2015	29,737	1,065	89	2,701	2,700	0	25,490	16,693	2,375	19,068	6,422	662	7,084	234	7,318	
4/25/2015	29,737	1,065	89	3,651	2,700	0	24,540	16,424	2,375	18,799	5,741	662	6,403	234	6,637	
5/2/2015	29,737	1,065	89	2,076	3,400	0	25,415	16,397	2,375	18,772	6,643	662	7,305	234	7,539	
5/9/2015	29,737	1,065	89	1,016	3,400	0	26,475	20,416	2,375	22,791	3,684	662	4,346	234	4,580	
5/16/2015	29,737	1,065	89	1,541	3,400	0	25,950	21,428	2,375	23,803	2,147	662	2,809	234	3,043	
5/23/2015	29,737	1,065	89	1,157	3,400	0	26,334	22,368	2,375	24,743	1,591	662	2,253	234	2,487	

1. Available OPCAP MW based on resource Capacity Supply Obligations, CSO. Does not include Settlement Only Generators.
2. External Node Available Capacity MW based on the sum of external Capacity Supply Obligations (CSO) imports and exports.
3. New resources that have acquired a CSO but have not become commercial.
4. Planned Outages is the total of Generator/DARD Outages for the period. This value would also include any known long-term Forced Outages.
5. Allowance for Unplanned Outages includes forced outages and maintenance outages scheduled less than 14 days in advance per ISO New England Operating Procedure No. 5 Appendix A.
7. Generation at Risk due to Gas Supply pertains to gas fired capacity expected to be at risk during cold weather conditions or gas pipeline maintenance outages.
8. Net OpCap Supply MW Available (1 + 2 + 3 - 4 - 5 - 7 = 8)
9. Peak Load Forecast as provided in the 2013 CELT Report and adjusted for Passive Demand Resources.
10. Operating Reserve Requirement based on 125% of first largest contingency plus 50% the second largest contingency.
11. Total Net Load Obligation per the formula(9 + 10 = 11)
12. Net OPCAP Margin MW = Net Op Cap Supply MW minus Net Load Obligation (8 - 11 = 12)
13. OP 4 Action 2 Real-time Demand Response based on OP4 Appendix A. Reserve Margins and Distribution Loss Factor Gross Ups are Included.
14. OPCAP Margin taking into account Real Time Demand Response through OP4 Step 2 (12 + 13 = 14)
15. OP 4 Action 6 Emergency Generation Response without the Voltage Reduction requiring > 10 Minutes based on OP4 Appendix A. Real Time Emergency Generation is capped at 600MW. Reserve Margins and Distribution Loss Factor Gross Ups are Included.
16. OPCAP Margin taking into account Real Time Demand Response and Real Time Emergency Generation through OP4 Step 6 (14 + 15 = 16); This does not include Emergency Energy Transactions (EETs).

New England Operable Capacity Margins - CSO
50/50 FORECAST



June 1, 2014 - May 31, 2015, W/B Saturday