



Rachel Wilkins-Thurman
Outage Coordination

To: NEPOOL Participants

From: Rachel Wilkins-Thurman

Subject: 2013-14 Current Year Annual Maintenance Schedule

Date: December 23, 2013

Following this transmittal letter, you will find the 2013-14 Annual Maintenance Schedule (AMS) dated December 23, 2013 with an Operable Capacity Analysis (with forecasted external transactions) for January 4, 2014 – May 31, 2014. This schedule covers the fourth Forward Capacity Market procurement period.

2013-14 AMS- DATED DECEMBER 23, 2013

The 2013-14 AMS - dated December 23, 2013 reflects all planned maintenance requests and also includes any known long duration Forced Outages for January 4, 2014 – May 31, 2014 that have been submitted to the ISO through December 11th. Those generator owners who have not yet submitted their anticipated maintenance schedules for Current Year 2013-14 or First Future Year 2014-15 are encouraged to do so.

2013-14 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for January 4, 2014 – May 31, 2014 presently forecasts the lowest Winter Long Term Operable Capacity Margin (LTOCM) of -170 MW for week beginning January 18, 2014. The lowest LTOCM for the Spring is for week beginning May 10, 2014 at -218 MW.

Peak Load Exposures (PLE)

After being adjusted for Passive Demand Resources (PDR) the Peak Load Exposure (PLE) for the summer and winter of 2013-14 is 26,690 MW and 21,299 MW respectively, and reflects the seasonal peak load based on the 2013 CELT Report.

Generating Unit Capabilities

Generator Capacity Supply Obligations (CSO) are based upon data as of December 11, 2013 and include Energy Management System (EMS) assets. 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.



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.

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 throughout the year.

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, Joanne Bialas (413) 535-4162, or Ingrid Canaday (413) 535-4329, or by email at opamoreq@iso-ne.com.

ISO-NE 2013-2014 OPERABLE CAPACITY ANALYSIS

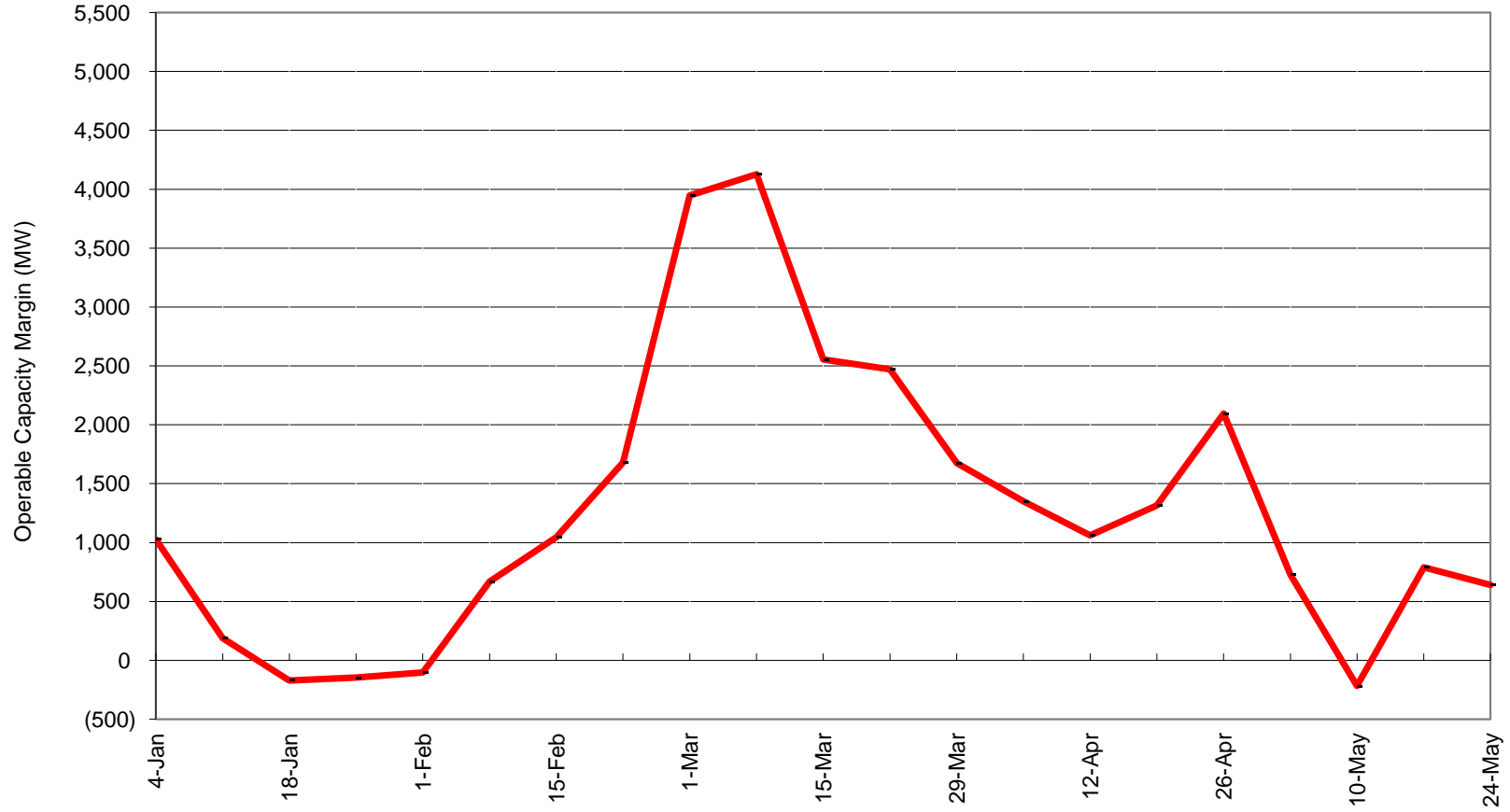
December 23, 2013 - 50/50- FORECAST - CSO

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]
1/4/2014	30,702	217	122	1,936	2,800	2,073	24,232	20,830	2,375	23,205	1,027	282	1,309	143	1,452
1/11/2014	30,702	217	122	2,067	2,800	2,310	23,864	21,299	2,375	23,674	190	282	472	143	615
1/18/2014	30,702	217	122	2,541	2,800	2,196	23,504	21,299	2,375	23,674	(170)	282	112	143	255
1/25/2014	30,702	217	122	1,324	2,800	3,390	23,527	21,299	2,375	23,674	(147)	282	135	143	278
2/1/2014	29,714	1,083	122	1,215	3,100	3,256	23,348	21,075	2,375	23,450	(102)	398	296	168	464
2/8/2014	29,714	1,083	122	1,255	3,100	2,717	23,847	20,805	2,375	23,180	667	398	1,065	168	1,233
2/15/2014	29,714	1,083	122	1,842	3,100	1,779	24,198	20,776	2,375	23,151	1,047	398	1,445	168	1,613
2/22/2014	29,714	1,083	122	1,368	3,100	1,886	24,565	20,511	2,375	22,886	1,679	398	2,077	168	2,245
3/1/2014	29,714	1,083	122	2,661	2,200	222	25,836	19,515	2,375	21,890	3,946	398	4,344	168	4,512
3/8/2014	29,714	1,083	122	3,055	2,200	0	25,664	19,162	2,375	21,537	4,127	398	4,525	168	4,693
3/15/2014	29,714	1,083	122	4,824	2,200	0	23,895	18,965	2,375	21,340	2,555	398	2,953	168	3,121
3/22/2014	29,714	1,083	122	5,277	2,200	0	23,442	18,597	2,375	20,972	2,470	398	2,868	168	3,036
3/29/2014	29,560	1,083	122	5,992	2,700	0	22,073	18,023	2,375	20,398	1,675	461	2,136	234	2,370
4/5/2014	29,560	1,083	122	6,815	2,700	0	21,250	17,524	2,375	19,899	1,351	461	1,812	234	2,046
4/12/2014	29,560	1,083	122	7,359	2,700	0	20,706	17,271	2,375	19,646	1,060	461	1,521	234	1,755
4/19/2014	29,560	1,083	122	7,619	2,700	0	20,446	16,757	2,375	19,132	1,314	461	1,775	234	2,009
4/26/2014	29,560	1,083	122	6,405	3,400	0	20,960	16,490	2,375	18,865	2,095	461	2,556	234	2,790
5/3/2014	29,560	1,083	122	7,797	3,400	0	19,568	16,463	2,375	18,838	730	461	1,191	234	1,425
5/10/2014	29,560	889	122	4,791	3,400	0	22,380	20,223	2,375	22,598	(218)	461	243	234	477
5/17/2014	29,560	1,083	122	2,985	3,400	0	24,380	21,216	2,375	23,591	789	461	1,250	234	1,484
5/24/2014	29,560	1,083	122	2,212	3,400	0	25,153	22,138	2,375	24,513	640	461	1,101	234	1,335

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 external Capacity Supply Obligations, CSO .
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 - 6 - 7 = 8)
9. Peak Load Forecast per data included in the 2013 CELT Report adjusted for Other 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. 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. 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



January 4, 2014 - May 24, 2014, W/B Saturday