



Ingrid Canaday
Outage Coordination

To: NEPOOL Participants

From: Ingrid Canaday

Subject: 2013-14 Current Year Annual Maintenance Schedule

Date: March 4, 2014

Following this transmittal letter, you will find the 2013-14 Annual Maintenance Schedule (AMS) dated March 4, 2014 with an Operable Capacity Analysis (with forecasted external transactions) for March 8, 2014 – May 31, 2014. This schedule covers the fourth Forward Capacity Market procurement period.

2013-14 AMS- DATED March 4, 2014

The 2013-14 AMS - dated March 4, 2014 reflects all planned maintenance requests and also includes any known long duration Forced Outages for March 8, 2014 – May 31, 2014 that have been submitted to the ISO through February 26th. 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 March 8, 2014 – May 31, 2014 presently forecasts the lowest Spring Long Term Operable Capacity Margin (LTOCM) of 261 MW for week beginning May 17, 2014.

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 February 26, 2014 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 2014 OPERABLE CAPACITY ANALYSIS

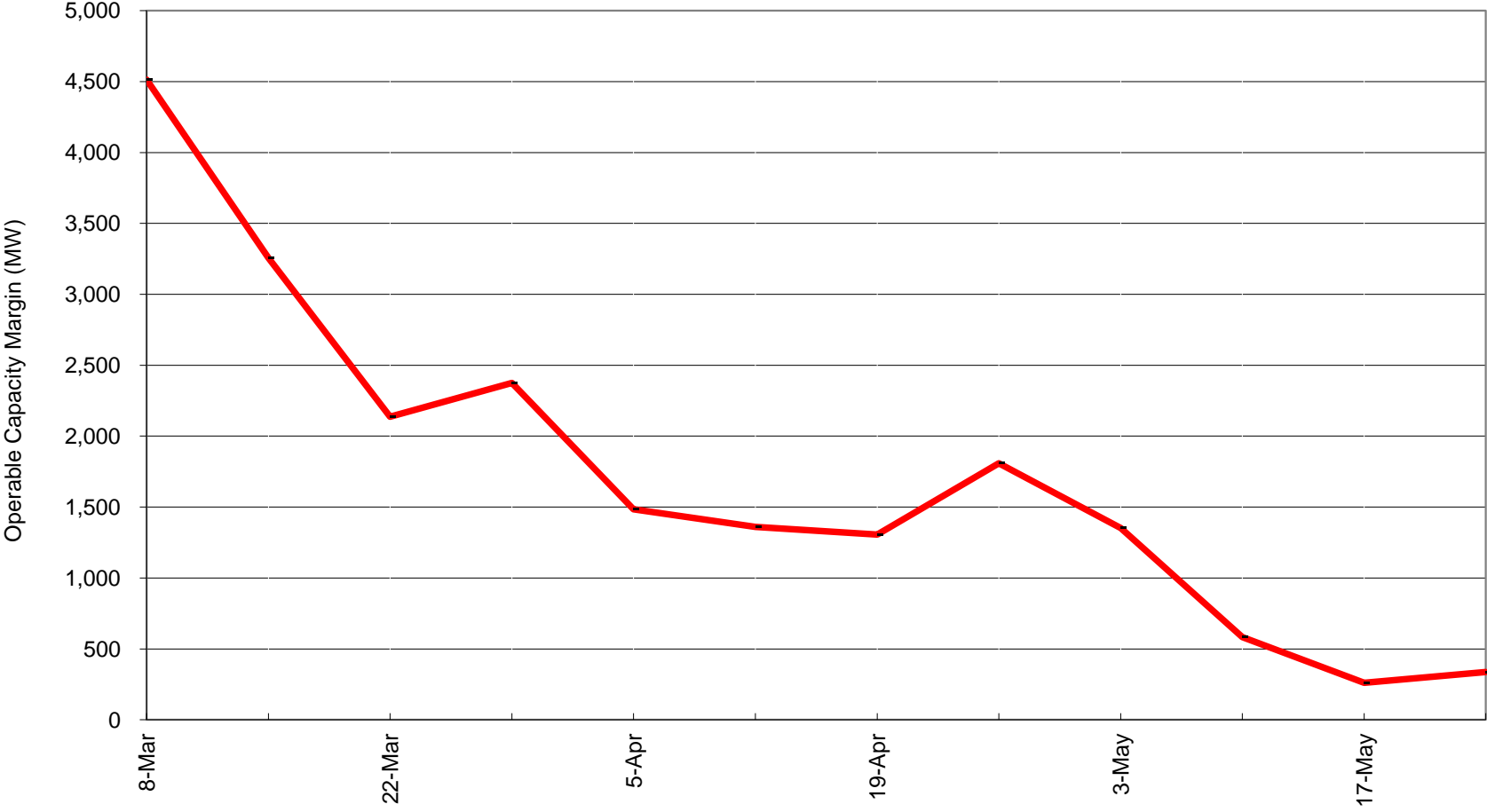
March 4, 2014 - 50/50- FORECAST - CSO

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]
3/8/2014	30,300	717	68	2,835	2,200	0	26,050	19,162	2,375	21,537	4,513	206	4,719	125	4,844
3/15/2014	30,300	717	68	4,289	2,200	0	24,596	18,965	2,375	21,340	3,256	206	3,462	125	3,587
3/22/2014	30,300	717	68	5,776	2,200	0	23,109	18,597	2,375	20,972	2,137	206	2,343	125	2,468
3/29/2014	30,090	757	68	5,441	2,700	0	22,774	18,023	2,375	20,398	2,376	314	2,690	163	2,853
4/5/2014	30,090	757	68	6,831	2,700	0	21,384	17,524	2,375	19,899	1,485	314	1,799	163	1,962
4/12/2014	30,090	757	68	7,208	2,700	0	21,007	17,271	2,375	19,646	1,361	314	1,675	163	1,838
4/19/2014	30,090	757	68	7,776	2,700	0	20,439	16,757	2,375	19,132	1,307	314	1,621	163	1,784
4/26/2014	29,560	1,083	68	6,636	3,400	0	20,675	16,490	2,375	18,865	1,810	461	2,271	234	2,505
5/3/2014	29,560	1,083	68	7,120	3,400	0	20,191	16,463	2,375	18,838	1,353	461	1,814	234	2,048
5/10/2014	29,560	889	68	3,935	3,400	0	23,182	20,223	2,375	22,598	584	461	1,045	234	1,279
5/17/2014	29,560	1,083	68	3,459	3,400	0	23,852	21,216	2,375	23,591	261	461	722	234	956
5/24/2014	29,560	1,083	68	2,460	3,400	0	24,851	22,138	2,375	24,513	338	461	799	234	1,033

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



March 8, 2014 - May 24, 2014, W/B Saturday