



**Rachel Wilkins-Thurman**  
Outage Coordination

To: NEPOOL Participants

From: Rachel Wilkins-Thurman

**Subject: 2014-15 Current Year Annual Maintenance Schedule**

June 27, 2014

Following this transmittal letter, you will find the 2014-15 Annual Maintenance Schedule (AMS) dated June 27, 2014 with an Operable Capacity Analysis (with forecasted external transactions) for July 5, 2014 – May 29, 2015. This schedule covers the fifth Forward Capacity Market procurement period.

The ISO asks that each company submitting generator outage requests consider the data market sensitive in accordance with the ISO New England Information Policy, which can be found at: [http://www.iso-ne.com/regulatory/tariff/attach\\_d/](http://www.iso-ne.com/regulatory/tariff/attach_d/).

Participants that own entitlements in units must contact the Lead Participant to obtain the maintenance schedule for each unit.

**2014-15 AMS - DATED June 27, 2014**

The 2014-15 AMS – dated June 27, 2014 reflects all planned maintenance requests and also includes any known long duration Forced Outages for July 5, 2014 – May 29, 2015 that have been submitted to the ISO through June 19, 2014. Those generator owners who have not yet submitted their anticipated maintenance schedules for 2014-15 are encouraged to do so.

**2014-15 OPERABLE CAPACITY ANALYSIS**

The Operable Capacity Analysis for July 5, 2014 – May 29, 2015 presently forecasts the lowest Summer Long Term Operable Capacity Margin (LTOCM) of -775 MW for week beginning July 12, 2014.

**Peak Load Exposures (PLE)**

After being adjusted for Other Demand Resources (ODR), the Peak Load Exposures (PLE) for the summer and winter of 2014-15 are 26,658 MW and 21,086 MW respectively, and reflect the seasonal peak load based on the 2014 CELT Report.

**Generating Unit Capabilities**

Generator Capacity Supply Obligations (CSO) are based upon data as of June 19, 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, NBPSO, 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 2014-15 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](mailto:opamoreq@iso-ne.com).

# ISO-NE 2014-15 OPERABLE CAPACITY ANALYSIS

June 27, 2014 - 50/50 FORECAST using CSO values

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.

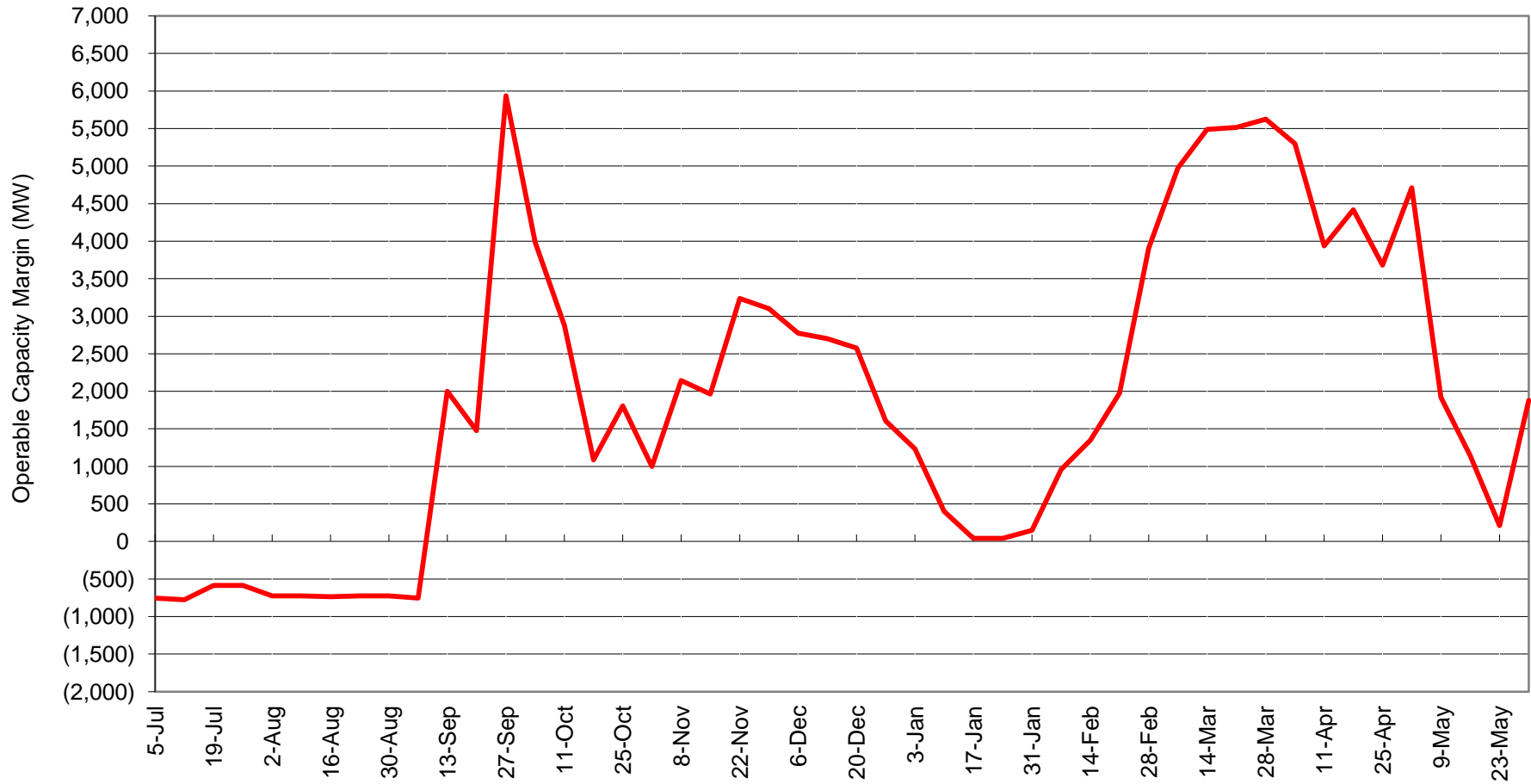
STUDY WEEK (Week Beginning, Saturday)	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL CAPACITY MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES CSO MW	ALLOWANCE FOR UNPLANNED OUTAGES MW	GEN AT RISK DUE TO GAS SUP MW	NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREMENT MW	NET LOAD OBLIGATION MW	OPCAP 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]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]
7/5/2014	29,508	1,066	0	193	2,100	0	28,281	26,658	2,375	29,033	(752)	359	(393)	167	(226)
7/12/2014	29,508	1,066	0	216	2,100	0	28,258	26,658	2,375	29,033	(775)	359	(416)	167	(249)
7/19/2014	29,508	1,066	0	26	2,100	0	28,448	26,658	2,375	29,033	(585)	359	(226)	167	(59)
7/26/2014	29,508	1,066	0	26	2,100	0	28,448	26,658	2,375	29,033	(585)	359	(226)	167	(59)
8/2/2014	29,135	1,283	0	10	2,100	0	28,308	26,658	2,375	29,033	(725)	477	(248)	208	(40)
8/9/2014	29,135	1,283	0	10	2,100	0	28,308	26,658	2,375	29,033	(725)	477	(248)	208	(40)
8/16/2014	29,135	1,283	0	20	2,100	0	28,298	26,658	2,375	29,033	(735)	477	(258)	208	(50)
8/23/2014	29,135	1,283	0	10	2,100	0	28,308	26,658	2,375	29,033	(725)	477	(248)	208	(40)
8/30/2014	29,135	1,283	0	10	2,100	0	28,308	26,658	2,375	29,033	(725)	477	(248)	208	(40)
9/6/2014	29,119	1,283	0	24	2,100	0	28,278	26,658	2,375	29,033	(755)	489	(266)	211	(55)
9/13/2014	29,119	1,283	0	1,303	2,100	0	26,999	22,622	2,375	24,997	2,002	489	2,491	211	2,702
9/20/2014	29,119	1,283	0	1,922	2,100	0	26,380	22,529	2,375	24,904	1,476	489	1,965	211	2,176
9/27/2014	29,119	453	1	2,217	2,800	0	24,556	16,244	2,375	18,619	5,937	489	6,426	211	6,637
10/4/2014	29,680	618	1	4,857	2,800	0	22,642	16,280	2,375	18,655	3,987	486	4,473	211	4,684
10/11/2014	29,680	812	1	5,217	2,800	0	22,476	17,219	2,375	19,594	2,882	486	3,368	211	3,579
10/18/2014	29,680	812	1	6,642	2,800	0	21,051	17,589	2,375	19,964	1,087	486	1,573	211	1,784
10/25/2014	29,680	812	1	5,711	2,800	0	21,982	17,799	2,375	20,174	1,808	486	2,294	211	2,505
11/1/2014	29,680	812	14	5,616	3,600	0	21,290	17,917	2,375	20,292	998	486	1,484	211	1,695
11/8/2014	29,680	812	14	4,120	3,600	0	22,786	18,266	2,375	20,641	2,145	486	2,631	211	2,842
11/15/2014	29,680	812	14	3,553	3,600	0	23,353	19,016	2,375	21,391	1,962	486	2,448	211	2,659
11/22/2014	29,680	812	14	1,083	3,600	463	25,360	19,747	2,375	22,122	3,238	486	3,724	211	3,935
11/29/2014	29,680	812	18	427	3,200	1,439	25,444	19,969	2,375	22,344	3,100	486	3,586	211	3,797
12/6/2014	29,833	812	18	434	3,200	1,619	25,410	20,262	2,375	22,637	2,773	454	3,227	202	3,429
12/13/2014	29,833	812	18	134	3,200	1,979	25,350	20,273	2,375	22,648	2,702	454	3,156	202	3,358
12/20/2014	29,833	812	18	15	3,200	2,159	25,289	20,337	2,375	22,712	2,577	454	3,031	202	3,233
12/27/2014	29,833	812	21	630	3,200	2,519	24,317	20,337	2,375	22,712	1,605	454	2,059	202	2,261
1/3/2015	29,833	812	21	764	2,800	2,879	24,223	20,614	2,375	22,989	1,234	454	1,688	202	1,890
1/10/2015	29,833	812	21	764	2,800	3,238	23,864	21,086	2,375	23,461	403	454	857	202	1,059
1/17/2015	29,833	812	21	764	2,800	3,598	23,504	21,086	2,375	23,461	43	454	497	202	699
1/24/2015	29,833	812	21	764	2,800	3,598	23,504	21,086	2,375	23,461	43	454	497	202	699
1/31/2015	29,833	812	21	1,021	3,100	3,161	23,384	20,860	2,375	23,235	149	454	603	202	805
2/7/2015	29,833	812	21	1,021	3,100	2,622	23,923	20,589	2,375	22,964	959	454	1,413	202	1,615
2/14/2015	29,833	812	21	1,021	3,100	2,262	24,283	20,560	2,375	22,935	1,348	454	1,802	202	2,004
2/21/2015	29,833	812	21	1,021	3,100	1,902	24,643	20,294	2,375	22,669	1,974	454	2,428	202	2,630
2/28/2015	29,833	812	21	1,094	2,200	1,799	25,573	19,291	2,375	21,666	3,907	454	4,361	202	4,563
3/7/2015	29,833	812	21	919	2,200	1,260	26,287	18,937	2,375	21,312	4,975	454	5,429	202	5,631
3/14/2015	29,833	812	21	966	2,200	900	26,600	18,738	2,375	21,113	5,487	454	5,941	202	6,143
3/21/2015	29,833	812	21	1,668	2,200	540	26,258	18,368	2,375	20,743	5,515	454	5,969	202	6,171
3/28/2015	29,833	812	21	2,172	2,700	0	25,794	17,795	2,375	20,170	5,624	454	6,078	202	6,280
4/4/2015	29,680	812	21	2,864	2,700	0	24,949	17,275	2,375	19,650	5,299	486	5,785	211	5,996
4/11/2015	29,680	812	21	4,481	2,700	0	23,332	17,020	2,375	19,395	3,937	486	4,423	211	4,634
4/18/2015	29,680	812	21	4,517	2,700	0	23,296	16,503	2,375	18,878	4,418	486	4,904	211	5,115
4/25/2015	29,680	812	21	4,821	3,400	0	22,292	16,235	2,375	18,610	3,682	486	4,168	211	4,379

STUDY WEEK (Week Beginning, Saturday)	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL CAPACITY MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES CSO MW	ALLOWANCE FOR UNPLANNED OUTAGES MW	GEN AT RISK DUE TO GAS SUP 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]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]
5/2/2015	29,680	812	21	3,820	3,400	0	23,293	16,208	2,375	18,583	4,710	486	5,196	211	5,407
5/9/2015	29,680	812	21	2,705	3,400	0	24,408	20,112	2,375	22,487	1,921	486	2,407	211	2,618
5/16/2015	29,680	812	21	2,477	3,400	0	24,636	21,116	2,375	23,491	1,145	486	1,631	211	1,842
5/23/2015	29,680	812	21	2,479	3,400	0	24,634	22,049	2,375	24,424	210	486	696	211	907

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.
6. 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.
7. Net OpCap Supply MW Available (1 + 2 + 3 - 4 - 5 - 6 = 7)
8. Peak Load Forecast per data included in the 2014 CELT Report adjusted for Other Demand Resources. <http://www.iso-ne.com/trans/celt/report/index.html>
9. Operating Reserve Requirement based on 125% of first largest contingency plus 50% the second largest contingency.
10. Total Net Load Obligation per the formula(8+ 9 = 10)
11. Net OPCAP Margin MW = Net Op Cap Supply MW minus Net Load Obligation (7 - 10 = 11)
12. OP 4 Action 2 Real-time Demand Response. Reserve Margins and Distribution Loss Factor Gross Ups are Included.
13. OPCAP Margin taking into account Real Time Demand Response through OP4 Step 2 (11 + 12 = 13)
14. 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.
15. OPCAP Margin taking into account Real Time Demand Response and Real Time Emergency Generation through OP4 Step 6 (13 + 14 = 15); This does not include Emergency Energy Transactions (EETs).

# New England Operable Capacity Margins - CSO

## - 50/50 FORECAST



July 5, 2014 - May 29, 2015, W/B Saturday