



Joanne Bialas

Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2014-15 Current Year Annual Maintenance Schedule

July 25, 2014

Following this transmittal letter, you will find the 2014-15 Annual Maintenance Schedule (AMS) dated July 25, 2014 with an Operable Capacity Analysis (with forecasted external transactions) for August 2, 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/.

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

2014-15 AMS - DATED July 25, 2014

The 2014-15 AMS – dated July 25, 2014 reflects all planned maintenance requests and also includes any known long duration Forced Outages for August 2, 2014 – May 29, 2015 that have been submitted to the ISO through July 18, 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 August 2, 2014 – May 29, 2015 presently forecasts the lowest Summer Long Term Operable Capacity Margin (LTOCM) of -737 MW for week beginning September 6, 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 July 18, 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.

New England Operable Capacity Margins

July 25, 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.

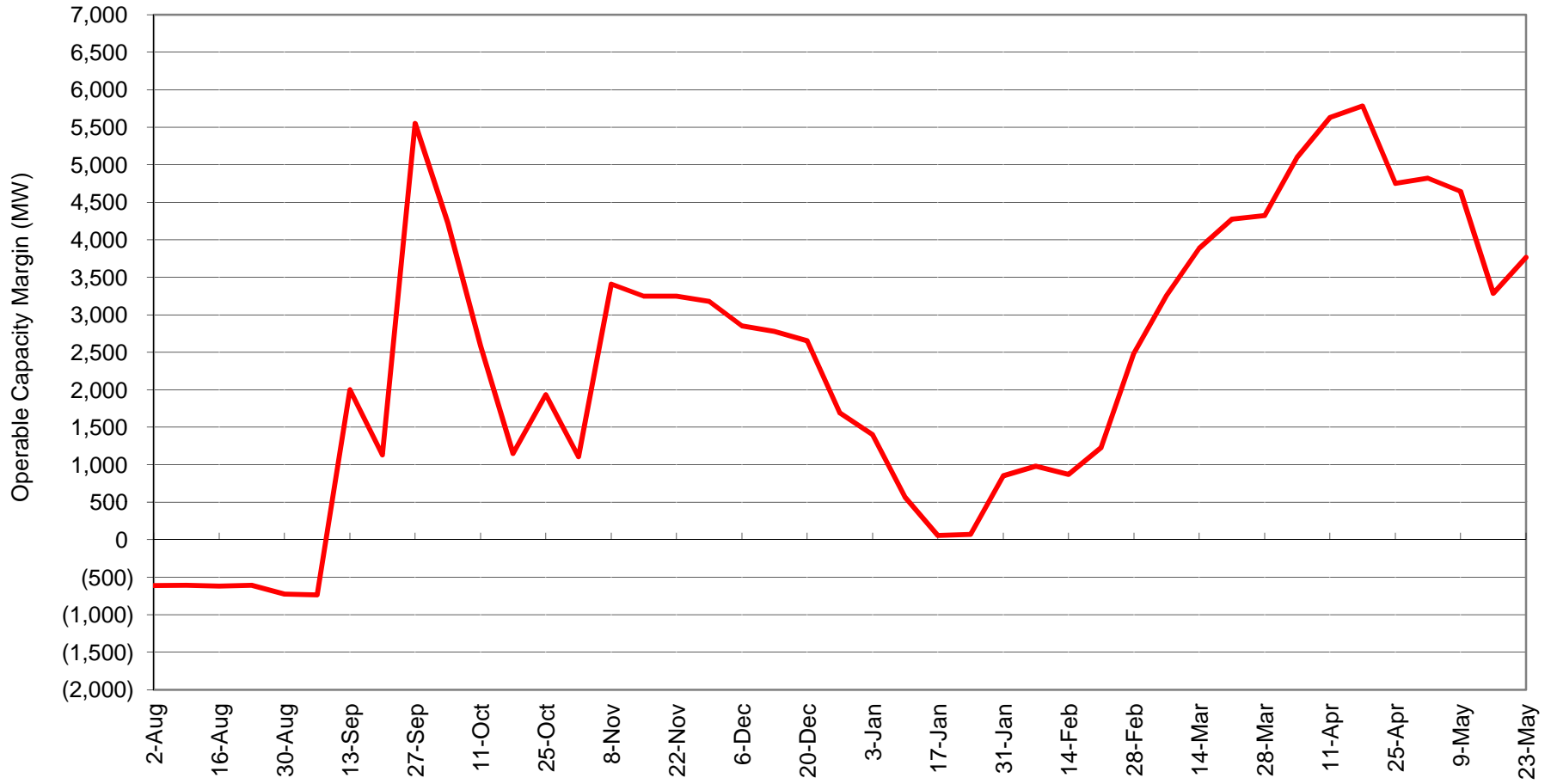
STUDY WEEK (Week Beginning, Saturday)	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL CAPACITY MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES CSO MW	ALLOWANCE FOR UNPLANNED OUTAGES MW	GEN AT RISK DUE TO GAS SUP MW	NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREMENT MW	NET LOAD OBLIGATION MW	OPCAP 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]
8/2/2014	29,467	1,066	0	9	2,100	0	28,424	26,658	2,375	29,033	(609)	360	(249)	205	(44)
8/9/2014	29,467	1,066	0	8	2,100	0	28,425	26,658	2,375	29,033	(608)	360	(248)	205	(43)
8/16/2014	29,467	1,066	0	17	2,100	0	28,416	26,658	2,375	29,033	(617)	360	(257)	205	(52)
8/23/2014	29,467	1,066	0	8	2,100	0	28,425	26,658	2,375	29,033	(608)	360	(248)	205	(43)
8/30/2014	29,135	1,283	0	8	2,100	0	28,310	26,658	2,375	29,033	(723)	476	(247)	208	(39)
9/6/2014	29,135	1,283	0	22	2,100	0	28,296	26,658	2,375	29,033	(737)	476	(261)	208	(53)
9/13/2014	29,135	1,283	0	1,320	2,100	0	26,998	22,622	2,375	24,997	2,001	476	2,477	208	2,685
9/20/2014	29,135	1,283	0	2,284	2,100	0	26,034	22,529	2,375	24,904	1,130	476	1,606	208	1,814
9/27/2014	29,135	453	1	2,619	2,800	0	24,170	16,244	2,375	18,619	5,551	476	6,027	208	6,235
10/4/2014	29,680	718	1	4,720	2,800	0	22,879	16,280	2,375	18,655	4,224	486	4,710	211	4,921
10/11/2014	29,680	812	1	5,514	2,800	0	22,179	17,219	2,375	19,594	2,585	486	3,071	211	3,282
10/18/2014	29,680	812	1	6,578	2,800	0	21,115	17,589	2,375	19,964	1,151	486	1,637	211	1,848
10/25/2014	29,680	812	1	5,586	2,800	0	22,107	17,799	2,375	20,174	1,933	486	2,419	211	2,630
11/1/2014	29,680	812	30	5,523	3,600	0	21,398	17,917	2,375	20,292	1,106	486	1,592	211	1,803
11/8/2014	29,680	812	30	2,872	3,600	0	24,050	18,266	2,375	20,641	3,409	486	3,895	211	4,106
11/15/2014	29,680	812	30	2,282	3,600	0	24,640	19,016	2,375	21,391	3,249	486	3,735	211	3,946
11/22/2014	29,680	812	30	1,094	3,600	459	25,369	19,747	2,375	22,122	3,247	486	3,733	211	3,944
11/29/2014	29,680	812	102	434	3,200	1,439	25,521	19,969	2,375	22,344	3,177	486	3,663	211	3,874
12/6/2014	29,833	812	102	441	3,200	1,619	25,487	20,262	2,375	22,637	2,850	454	3,304	202	3,506
12/13/2014	29,833	812	102	141	3,200	1,979	25,427	20,273	2,375	22,648	2,779	454	3,233	202	3,435
12/20/2014	29,833	812	102	22	3,200	2,159	25,366	20,337	2,375	22,712	2,654	454	3,108	202	3,310
12/27/2014	29,833	812	102	626	3,200	2,519	24,402	20,337	2,375	22,712	1,690	454	2,144	202	2,346
1/3/2015	29,833	812	48	626	2,800	2,879	24,388	20,614	2,375	22,989	1,399	454	1,853	202	2,055
1/10/2015	29,833	812	48	626	2,800	3,238	24,029	21,086	2,375	23,461	568	454	1,022	202	1,224
1/17/2015	29,833	812	48	776	2,800	3,598	23,519	21,086	2,375	23,461	58	454	512	202	714
1/24/2015	29,833	812	48	764	2,800	3,598	23,531	21,086	2,375	23,461	70	454	524	202	726
1/31/2015	29,833	812	69	630	3,100	3,418	23,566	20,337	2,375	22,712	854	454	1,308	202	1,510
2/7/2015	29,833	812	69	764	3,100	2,879	23,971	20,614	2,375	22,989	982	454	1,436	202	1,638
2/14/2015	29,833	812	69	764	3,100	2,519	24,331	21,086	2,375	23,461	870	454	1,324	202	1,526
2/21/2015	29,833	812	69	764	3,100	2,159	24,691	21,086	2,375	23,461	1,230	454	1,684	202	1,886
2/28/2015	29,833	812	69	764	2,200	1,799	25,951	21,086	2,375	23,461	2,490	454	2,944	202	3,146
3/7/2015	29,833	812	69	1,021	2,200	1,003	26,490	20,860	2,375	23,235	3,255	454	3,709	202	3,911
3/14/2015	29,833	812	69	1,021	2,200	643	26,850	20,589	2,375	22,964	3,886	454	4,340	202	4,542
3/21/2015	29,833	812	69	1,021	2,200	283	27,210	20,560	2,375	22,935	4,275	454	4,729	202	4,931
3/28/2015	29,833	812	69	1,021	2,700	0	26,993	20,294	2,375	22,669	4,324	454	4,778	202	4,980
4/4/2015	29,680	812	69	1,094	2,700	0	26,767	19,291	2,375	21,666	5,101	486	5,587	211	5,798
4/11/2015	29,680	812	69	919	2,700	0	26,942	18,937	2,375	21,312	5,630	486	6,116	211	6,327
4/18/2015	29,680	812	69	966	2,700	0	26,895	18,738	2,375	21,113	5,782	486	6,268	211	6,479
4/25/2015	29,680	812	69	1,668	3,400	0	25,493	18,368	2,375	20,743	4,750	486	5,236	211	5,447
5/2/2015	29,680	812	69	2,172	3,400	0	24,989	17,795	2,375	20,170	4,819	486	5,305	211	5,516
5/9/2015	29,680	812	69	2,864	3,400	0	24,297	17,275	2,375	19,650	4,647	486	5,133	211	5,344

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]
5/16/2015	29,680	812	69	4,481	3,400	0	22,680	17,020	2,375	19,395	3,285	486	3,771	211	3,982
5/23/2015	29,680	812	69	4,517	3,400	0	22,644	16,503	2,375	18,878	3,766	486	4,252	211	4,463

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



August 2, 2014 - May 29, 2015, W/B Saturday