

Joanne Bialas Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

Subject: 2010-11 Annual Maintenance Schedule – July Edition

Date: July 2, 2010

Following this transmittal letter, you will find the 2010-11 Annual Maintenance Schedule (AMS) – July Edition dated July 2, 2010, with rounded weekly planned outage totals only, and an Operable Capacity Analysis for July 2010 through May 2011. This schedule covers the first Forward Capacity Market procurement period. Periodically, individual Participants will receive a copy of the AMS that depicts only the maintenance requests that they submitted to ISO New England. Participants that own entitlements in units must contact the Lead Participant to obtain the maintenance schedule for each unit.

2010-11 AMS - JULY EDITION - DATED JULY 2, 2010

July Edition of the 2010-11 AMS - dated July 2, 2010 reflects all planned maintenance requests for July 2010- May 2011 that have been submitted to the ISO through July 1, 2010. Those generator owners who have not yet submitted their anticipated maintenance schedules for the AMS covering the Procurement Period 2010-11 are encouraged to do so.

2010-11 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for July 2010 through May 2011 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of negative 670 MW for week beginning September 11th. However, it is possible that additional maintenance that may be added in upcoming editions of the 2010-11 AMS will reduce those margins.

Peak Load Exposures (PLE)

After being adjusted for Other Demand Resources, ODR, the Peak Load Exposure (PLE) for the summer and winter of 2010-11 procurement period is 26,618 MW and 21,526 MW respectively, and reflects the seasonal peak load based on the 2010 CELT Report.

Generating Unit Capabilities

Resource Capacity Supply Obligations, CSO, are based upon data as of July 2, 2010 and includes Energy Management System (EMS) assets. New unit additions are factored into the New Generation column at the appropriate points in time.

Miscellaneous Assumptions

The weekly Total Known Maintenance values include all generation scheduled out-of-service as reflected within this draft of the 2010-11 AMS.

Unplanned Outage Allotment

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Allowances for unplanned outages, as documented in ISO New England OP-5, range from 2,100 MW during the summer months to 3,600 MW.

External Transmission

No maintenance of Hydro-Quebec Phase II or Highgate has been included in the analysis.

Weekly Operating Reserve

The weekly operating reserve is equal to one hundred percent (100%) 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 generating capability that may not be available around the time of the winter peak load due to the unavailability of gas.

If you have any questions or comments concerning this edition of the 2009 AMS or Operable Capacity Analysis, please feel free to contact me at (413) 535-4162 or by email at opamoreq@iso-ne.com.

Summer Peak Load Exposure weeks

2010-11 ANNUAL MAINTENANCE SCHEDULE

Edition: July Edition - Dated July 2, 2010 Information Received through July 1, 2010

Information Received th	hrough July 1, 20	<mark>1</mark> 0																																					F	Page 1 of 1	
Dates indicate Saturda Sorted by Area and Loc	ay week beginn cal Control Cente	ing r								2010-11																															
							Г			May		June		Ju	uly		August		Septem	nber		Oc	tober	No	vember		D	ecember	1	Janua	ary	Febru	Jary		M	arch		April		May	
Plant Name	Resource IE	Assett ID	S. Name	Dispatch Zone	LCC	Blackstar	Туре	WSCC	SSCC	29	5 12	2 19 3	26 3	10 1	17 24	31 7	14 2	21 28	4 11	18 25	2	9	16 23	30	5 13	20 27	4	11 18	25	1 8	15 22	29 5	12	19 26	5 12	19 26	2	9 16	23 30	7 14 21	
																																									Ì
								rounded	planned	0	0	0 0	100 0	100 1	100 100	100 10	0 100 1	100 100	400 400	0 3500 410	5800	0 3600 5	5500 4700	3100 30	100 3600 1	400 70	0 900	600 600) 600 (600 600	300 300	500 90	0 1300 1	500 1500	1700 90	0 2000 250	0 5500	4900 5800	800 3100	00 3900 2000 500	

							July 2	, 2010 -	50/50 FOF	RECAST			-	ISO-NE 2010 OPERABLE CAPACITY ANALYSIS July 2, 2010 - 50/50 FORECAST 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 pask will occur every week during June, July, and August.														
	1	'his analysis is a ta	bulation of weekly asse		ne single table. The i	nformation sho	ows the operab	le capacity situ	ation under assumed		week. It is not ex AD OBLIGATIO		tem peak will occur eve		July, and August.													
STUDY WEEK (Week Beginning,	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL OPCAP MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES	UNPLANNED OUTAGES MW	GEN RISK DUE TO GAS SUP MW	Supply MW from LTOCM (with no outages <15 days out)		NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREME NT 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 MW											
Saturday)	[1]	[2]	[3]	[4]	[5]	[6]			[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]											
07/03/2010	30,036	321	0	0	2,100	0	30,322	30,320	28,220	26,618	1,800	28,418	(200)	520	320	640	960											
07/10/2010	30,036 30,036	321 321	0	100	2,100 2,100	0	30,278 30,293	30,280 30,290	28,180	26,618 26,618	1,800	28,418 28,418	(240)	520 520	280 290	640 640	920 930											
07/17/2010	30,036	321	0	100	2,100	0	30,293	30,290	28,190 28,170	26,618	1,800	28,418	(230)	520	290	640	930											
	30,036	321	0	100	2,100	0	30,266	30,270	28,170	26,618	1,800	28,418	(250)	520	310	640	910											
07/31/2010 08/07/2010	30,047	323	0	100	2,100	0	30,314	30,310	28,210	26,618	1,800	28,418	(210)	520	320	640	950											
08/07/2010	30,047	323	0	100	2,100	0	30,321	30,320	28,220	26,618	1,800	28,418	(200)	520	320	640	960											
08/14/2010	30,047	323	0	100	2,100	0	30,303	30,300	28,200	26,618	1,800	28,418	(220)	520	300	640	940											
08/28/2010	29,995	300	0	100	2,100	0	30,313	30,320	28,110	26,618	1,800	28,418	(310)	520	210	640	850											
09/04/2010	29,995	300	0	400	2,100	0	29,914	29,910	27,810	26,618	1,800	28,418	(610)	520	(90)	640	550											
09/04/2010	29,995	300	0	400	2,100	0	29,847	29,850	27,750	26,618	1,800	28,418	(670)	520	(150)	640	490											
09/18/2010	29,995	300	0	2,900	2,100	0	27,361	27,360	25,260	22,722	1,800	24,522	740	520	1.260	640	1.900											
09/25/2010	30,196	300	0	3,100	2,800	0	27,384	27,380	24,580	22.632	1,800	24,432	150	520	670	640	1,310											
10/02/2010	30,196	300	0	4.800	2,800	0	25.670	25.670	22.870	16,793	1.800	18,593	4.280	520	4.800	640	5,440											
10/09/2010	30,196	300	0	3,500	2.800	0	26,999	27,000	24,200	16,829	1,800	18,629	5,570	520	6,090	640	6,730											
10/16/2010	30,196	300	0	4,300	2,800	0	26,197	26,200	23,400	17,748	1,800	19,548	3,850	520	4,370	640	5,010											
10/23/2010	30,196	300	0	4,100	2,800	0	26,369	26,370	23,570	18,110	1,800	19,910	3,660	520	4,180	640	400											
10/30/2010	30,196	300	0	3.000	3.600	0	27.524	27.520	23,920	18.315	1,800	20.115	3,800	520	4.320	640	400											
11/06/2010	30,196	300	0	3,200	3,600	0	27,341	27,340	23,740	18,430	1,800	20,230	3,510	520	4,030	640	400											
11/13/2010	30,196	300	0	3,200	3,600	0	27,289	27,290	23,690	18,772	1,800	20,572	3,120	520	3,640	640	400											
11/20/2010	30,196	300	0	3,000	3,600	0	27,542	27,540	23,940	17,555	1,800	19,355	4,580	520	5,100	640	400											
11/27/2010	30,196	300	0	700	3,600	0	29,763	29,760	26,160	20,234	1,800	22,034	4,130	520	4,650	640	400											
12/04/2010	30,394	300	0	800	3,200	0	29,849	29,850	26,650	20,433	1,800	22,233	4,420	520	4,940	640	400											
12/11/2010	30,394	300	0	600	3,200	0	30,078	30,080	26,880	20,720	1,800	22,520	4,360	520	4,880	640	400											
12/18/2010	30,394	300	0	600	3,200	0	30,109	30,110	26,910	20,731	1,800	22,531	4,380	520	4,900	640	400											
12/25/2010	30,394	300	0	600	3,200	0	30,095	30,100	26,900	20,793	1,800	22,593	4,310	520	4,830	640	400											
01/01/2011	30,394	300	0	500	2,800	0	30,147	30,150	27,350	21,064	1,800	22,864	4,490	520	5,010	640	400											
01/08/2011	30,394	300	0	500	2,800	2,000	30,147	30,150	25,350	21,526	1,800	23,326	2,020	460	2,480	640	400											
01/15/2011	30,394	300	0	300	2,800	2,000	30,425	30,420	25,620	21,526	1,800	23,326	2,290	460	2,750	640	400											
01/22/2011	30,394	300	0	300	2,800	2,000	30,423	30,420	25,620	21,526	1,800	23,326	2,290	460	2,750	640	400											
01/29/2011	30,394	300	0	500	3,100	2,000	30,153	30,150	25,050	21,305	1,800	23,105	1,940	460	2,400	640	400											
02/05/2011	30,394	300	0	800	3,100	2,000	29,860	29,860	24,760	21,040	1,800	22,840	1,920	460	2,380	640	400											
02/12/2011	30,394	300	0	1,200	3,100	2,000	29,448	29,450	24,350	21,011	1,800	22,811	1,540	460	2,000	640	400											
02/19/2011	30,394	300	0	1,400	3,100	2,000	29,294	29,290	24,190	20,751	1,800	22,551	1,640	460	2,100	640	400											
02/26/2011	30,394	300	0	1,100	3,100	0	29,590	29,590	26,490	19,770	1,800	21,570	4,920	460	5,380	640	400											
03/05/2011	30,394	300	0	1,500	2,200	0	29,181	29,180	26,980	19,424	1,800	21,224	5,760	460	6,220	640	400											
03/12/2011	30,394	300	0	1,300	2,200	0	29,383	29,380	27,180	19,229	1,800	21,029	6,150	460	6,610	640	400											
03/19/2011	30,394	300	0	1,100	2,200	0	29,593	29,590	27,390	18,867	1,800	20,667	6,720	460	7,180	640	400											
03/26/2011	30,196	300	0	2,500	2,700	0	27,997	28,000	25,300	18,306	1,800	20,106	5,190	460	5,650	640	400											
04/02/2011	30,196	300	0	3,400	2,700	0	27,056	27,060	24,360	17,803	1,800	19,603	4,760	460	5,220	640	400											
04/09/2011	30,196	300	0	2,900	2,700	0	27,633	27,630	24,930	17,553	1,800	19,353	5,580	460	6,040	640	400											
04/16/2011	30,196	300	0	3,500	2,700	0	26,968	26,970	24,270	17,047	1,800	18,847	5,420	460	5,880	640	400											
04/23/2011	30,196	300	0	3,100	2,700	0	27,356	27,360	24,660	16,785	1,800	18,585	6,070	460	6,530	640	400											
04/30/2011	30,196	300	0	3,000	3,400	0	27,526	27,530	24,130	16,758	1,800	18,558	5,570	520	6,090	640	400											
05/07/2011	30,196	300	0	3,100	3,400	0	27,356	27,360	23,960	20,325	1,800	22,125	1,830	520	2,350	640	400											
05/14/2011	30,196	300	0	900	3,400	0	29,572	29,570	26,170	21,296	1,800	23,096	3,070	520	3,590	640	400											
05/21/2011	30,196	300	0	400	3,400	0	30,079	30,080	26,680	22,198	1,800	23,998	2,680	520	3,200	640	400											
05/28/2011	30,196	300	0	400	3,400	0	30,079	30,080	26,680	20,678	1,800	22,478	4,200	520	4,720	640	400											

1. Available OPCAP MW based on resource Capacity Supply Obligations, CSO, during the Forward Capacity Market procurement period from June 2010 through May 2011. Does not include Settlement Only Generators.

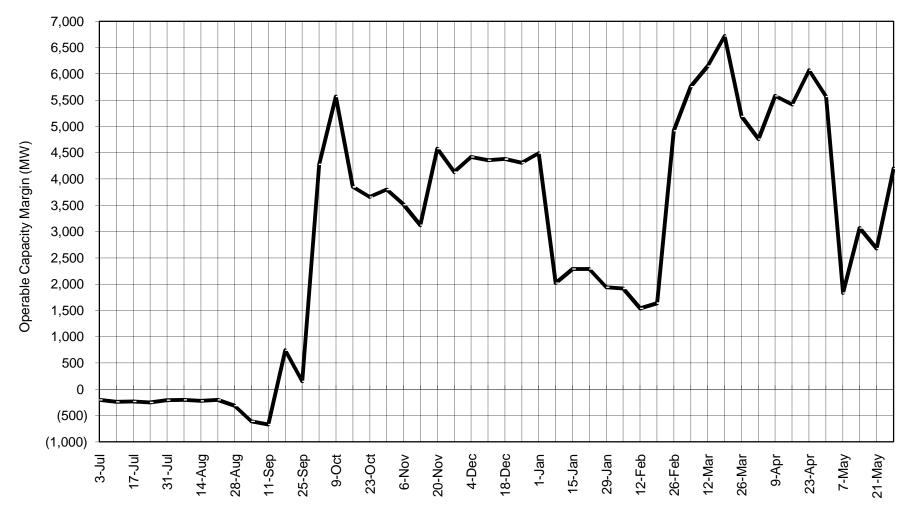
2. External Node Available OPCAP MW based on external Capacity Supply Obligations, CSO, during the Forward Capacity Market procurement period from June 2010 through May 2011

2. Exertial node variables Or Own win based of valential capacity soupp of based on the constraint of the value of a pacity water is 3. New resources that have not yet acquired a CSO but will become commercial in the future.
4. Allowance for Planned Outages includes planned outages scheduled greater than or equal to 15 days in advance.
5. Allowance for Unplanned Outages includes forced outages and maintenance outages scheduled less than 14 days in advance.

Allowance for Orphalmed Ottagles includes forced outages and maintenance outages scheduled tess in a variant in days in advi 6. Generation at Risk due to Gas Supply pertains to gas fired capacity expected to be at risk during cold weather conditions.
 Total OpCap Supply Available per the formula (1 + 2 + 3 - 4 - 5 - 6 = 7)
 Peak Load Exposure per data included in the 2010 CELT Report.
 Operating Reserve Requirement based on first largest contingency plus 1/2 the second largest contingency.

10. Total Load Obligation per the formula (8 + 9 = 10)

Total Lead Obligation per the formula (8 + 9 = 10)
 Net OPCAP Supply minus Net Lead Obligation (7 - 10 = 11)
 OP 4 Action 2 Real-time Demand Response not including reserve margin gross-ups and derate applied.
 OPCAP Margin taking into account Real Time Demand Response through OPK Step 2 (11 - 12 = 13).
 OP Action 6 Emergency Generation Response without the Voltage Reduction requirings > 10 Minutes. Real Time Emergency Generation is capped at 600MW.
 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 50/50 FORECAST

July 2010 - May 2011, W/B Saturday