

SPP TLR 5 Investigation Report
Flowgate 6007
(Gentleman – Red Willow 345 kV)
TLR Level 5: March 22, 2011
Report Issued:

1. Description of purpose/cause of hold/curtailment.

This report is submitted in accordance with the NERC Transmission Loading Relief Investigation Procedure for the Level 5 TLR event that occurred on Flowgate 6007 on March 22, 2011. Flowgate 6007 is an SPP flowgate. The Level 5 TLR was in effect from 11:00 on March 22, 2011 until 7:30 CST on March 24, 2011. Projected post-contingent flows on the Gentleman – Red Willow line did not exceed the SOL.

2. Facility/flowgate limitations and flows at the time the TLR was initiated.

At the time the Level 5A TLR was issued, the Limiting Element was rated at 455 MVA. Flow on the Limiting Element was 345 MVA. This flowgate does not have a Contingent Element.

3. TLR levels, timing, and relief requested amounts.

TLRs levels, timing and relief requested amounts are shown in the Event History and NERC TLR Log.

4. Transmission and generation outages or changes from prediction that may have contributed.

NPPD had several transmission outages. One of which did not allow the opening of a breaker.

5. Procedures implemented prior to hold/curtailment.

Curtailed non-firm transactions. Next hour flows predicted that not enough non-firm could be curtailed to alleviate loading on the flowgate.

6. The initial investigation shall compare all transaction curtailment lists as generated by the IDC with the list of transactions flowing as determined by the IDC (Whole Transaction Lists) both before and after curtailment. The reasons for any transactions that were excluded from curtailment shall be provided. For those transactions not curtailed, the Reliability Authority will identify those entities and any affiliation with said entities.

There were no known transactions excluded from curtailment for this TLR.

7. List of known transactions not in the IDC with Transaction Contribution Factors greater than the curtailment threshold and actions taken to curtail such transactions.

There were no known transactions not in the IDC.

8. Excerpts from the RA Operations Log containing information relevant to the TLR event.

Information was provided to Reliability Coordinators through the IDC and the RCIS. Also the SPP Reliability Coordinators logged information describing the actions taken at each issuance of the TLR. Times in the RC Log are CDT.

9. Flowgate limitations as identified by security analysis processes conducted by the Reliability Authority for the day prior to the TLR event.

In the next day process, we did not see an issue with this flowgate, based off of the peak study.

10. State Estimator snapshots and security analysis, including any contingency analysis or stability analysis, along with any other recorded data indicating need for TLR.

The SPP Reliability Coordinator was monitoring their state estimator, RTCA and RTLODF applications for current flowgate loading and other potential issues during this time. eDNA data historian recorded all line flows before, during and after the Level 5 TLR event.

11. ATC limitations before, during, and after the TLR event.

SPP Tariff Administration grants transmission service using an AFC process. This process evaluates each transmission request on a case by case basis. SPP Tariff Administration was not granting any transmission requests that impacted the congested flowgate by 3 % or greater at the time of the Level 5 TLR.

12. Description of actions taken to avoid future hold/curtailments.

This TLR was caused by the temporary outages. Due to this situation, no actions were taken to avoid future hold/curtailments.

13. Provide IDC generated Congestion Management Reports showing transaction curtailment list and Control Area NNL (network and native load) curtailment responsibility.

Congestion Management Reports for each issuance of the TLR have been reviewed and are archived in the IDC. These screen shots have not been included to reduce the size of this report.

14. Re-dispatch actions taken.

SPP EIS Market redispatch was implemented during the entire TLR event. Firm and non-firm Market Flow were reduced on the flowgate as reported in the TLR Event History and NERC TLR Log. WAUE had 119 MW of NNL.

Event History

Issuing RC: SWPP
Flowgate: 6007 - GENTLMN3 345 REDWILO3 345 1
Event Begin: 2011-03-22 06:05
Event End: 2011-03-24 14:50
Event Duration: 56 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 3A	03/22/2011 06:05	03/22/2011 05:46	03/22/2011 05:46:17	55.0	30.4	24.6	2	88
TLR Level 3A	03/22/2011 07:00	03/22/2011 06:30	03/22/2011 06:28:18	15.0	0.0	15.0	2	88
TLR Level 3A	03/22/2011 08:00	03/22/2011 07:29	03/22/2011 07:28:05	27.0	0.0	27.0	2	88
TLR Level 3A	03/22/2011 09:00	03/22/2011 08:31	03/22/2011 08:29:24	17.0	0.0	17.0	2	88
TLR Level 3A	03/22/2011 10:00	03/22/2011 09:45	03/22/2011 09:43:33	30.0	0.0	30.0	2	88
TLR Level 5A	03/22/2011 11:00	03/22/2011 10:34	03/22/2011 10:31:42	38.0	0.0	39.0	25	114
TLR Level 5A	03/22/2011 12:00	03/22/2011 11:30	03/22/2011 11:29:02	74.0	0.0	77.2	62	215
TLR Level 5A	03/22/2011 13:00	03/22/2011 12:33	03/22/2011 12:31:21	123.0	0.0	129.3	61	318
TLR Level 5A	03/22/2011 14:00	03/22/2011 13:34	03/22/2011 13:28:43	96.0	0.0	107.9	63	272
TLR Level 5A	03/22/2011 15:00	03/22/2011 14:27	03/22/2011 14:25:58	87.0	0.0	96.7	62	252
TLR Level 5A	03/22/2011 16:00	03/22/2011 15:30	03/22/2011 15:29:24	80.0	0.0	88.6	63	237
TLR Level 5A	03/22/2011 17:00	03/22/2011 16:30	03/22/2011 16:29:35	78.0	0.0	85.8	60	228
TLR Level 3A	03/22/2011 18:00	03/22/2011 17:30	03/22/2011 17:28:12	155.5	123.9	31.6	2	88
TLR Level 3A	03/22/2011 19:00	03/22/2011 18:26	03/22/2011 18:25:45	91.0	59.3	31.7	2	88
TLR Level 3A	03/22/2011 20:00	03/22/2011 19:27	03/22/2011 19:27:00	108.0	76.3	31.7	2	88
TLR Level 3A	03/22/2011 21:00	03/22/2011 20:27	03/22/2011 20:27:09	95.0	63.9	31.1	2	88
TLR Level 3A	03/22/2011 22:00	03/22/2011 21:26	03/22/2011 21:25:48	86.0	43.8	42.2	2	208
TLR Level 3A	03/22/2011 23:00	03/22/2011 22:27	03/22/2011 22:27:16	101.0	58.9	42.1	2	208
TLR Level 3A	03/23/2011 00:00	03/22/2011 23:27	03/22/2011 23:26:51	89.0	49.2	39.8	2	182
TLR Level 3A	03/23/2011 01:00	03/23/2011 00:26	03/23/2011 00:26:13	77.0	37.2	39.8	2	182
TLR Level 3A	03/23/2011 02:00	03/23/2011 01:27	03/23/2011 01:26:37	65.0	25.2	39.8	2	182
TLR Level 3A	03/23/2011 03:00	03/23/2011 02:26	03/23/2011 02:25:47	77.0	37.2	39.8	2	182
TLR Level 3A	03/23/2011 04:00	03/23/2011 03:31	03/23/2011 03:30:37	77.0	37.2	39.8	2	182
TLR Level 3A	03/23/2011 05:00	03/23/2011 04:44	03/23/2011 04:44:22	57.0	17.2	39.8	2	182
TLR Level 3A	03/23/2011 06:00	03/23/2011 05:29	03/23/2011 05:26:42	31.0	0.0	31.1	3	87
TLR Level 3A	03/23/2011 07:00	03/23/2011 06:31	03/23/2011 06:25:58	35.0	0.0	35.1	3	126
TLR Level 3A	03/23/2011 08:00	03/23/2011 07:35	03/23/2011 07:27:20	17.0	0.0	17.0	1	50
TLR Level 3A	03/23/2011 09:00	03/23/2011 08:27	03/23/2011 08:26:12	7.0	0.0	7.0	1	50
TLR Level 3A	03/23/2011 10:00	03/23/2011 09:28	03/23/2011 09:25:53	0.0	0.0	0.0	0	0
TLR Level 3A	03/23/2011 11:00	03/23/2011 10:27	03/23/2011 10:25:58	1.0	0.0	1.0	1	16
TLR Level 3A	03/23/2011 12:00	03/23/2011 11:34	03/23/2011 11:28:18	6.0	0.0	6.0	1	50
TLR Level 5A	03/23/2011 13:00	03/23/2011 12:31	03/23/2011 12:29:03	78.0	0.0	80.8	65	254
TLR Level 5A	03/23/2011 14:00	03/23/2011 13:34	03/23/2011 13:32:02	50.0	0.0	57.0	50	199
TLR Level 5A	03/23/2011 15:00	03/23/2011 14:29	03/23/2011 14:26:43	51.0	0.0	55.4	50	197
TLR Level 5A	03/23/2011 16:00	03/23/2011 15:31	03/23/2011 15:30:38	51.0	0.0	55.7	50	198

TLR Level 5A	03/23/2011 17:00	03/23/2011 16:27	03/23/2011 16:27:18	51.0	0.0	55.0	51	201
TLR Level 5A	03/23/2011 18:00	03/23/2011 17:28	03/23/2011 17:26:56	57.0	0.0	61.2	59	217
TLR Level 5A	03/23/2011 19:00	03/23/2011 18:26	03/23/2011 18:26:04	74.0	0.0	79.3	71	290
TLR Level 5A	03/23/2011 20:00	03/23/2011 19:28	03/23/2011 19:26:44	88.0	0.0	95.1	70	294
TLR Level 5A	03/23/2011 21:00	03/23/2011 20:31	03/23/2011 20:29:26	91.0	0.0	100.0	66	289
TLR Level 3A	03/23/2011 22:00	03/23/2011 21:26	03/23/2011 21:26:10	158.3	118.7	39.6	2	182
TLR Level 3A	03/23/2011 23:00	03/23/2011 22:31	03/23/2011 22:30:40	121.0	81.3	39.7	2	182
TLR Level 5A	03/24/2011 00:00	03/23/2011 23:27	03/23/2011 23:26:56	86.0	0.0	88.5	64	245
TLR Level 5A	03/24/2011 01:00	03/24/2011 00:26	03/24/2011 00:26:09	96.0	0.0	105.0	62	274
TLR Level 5A	03/24/2011 02:00	03/24/2011 01:26	03/24/2011 01:25:41	67.0	0.0	77.7	60	218
TLR Level 5A	03/24/2011 03:00	03/24/2011 02:27	03/24/2011 02:26:21	96.0	0.0	103.2	60	268
TLR Level 5A	03/24/2011 04:00	03/24/2011 03:26	03/24/2011 03:25:39	90.0	0.0	100.0	62	262
TLR Level 5A	03/24/2011 05:00	03/24/2011 04:26	03/24/2011 04:25:44	83.0	0.0	92.7	61	249
TLR Level 5A	03/24/2011 06:00	03/24/2011 05:29	03/24/2011 05:27:17	44.0	0.0	52.7	52	104
TLR Level 3A	03/24/2011 07:00	03/24/2011 06:33	03/24/2011 06:32:30	52.8	27.6	25.2	1	10
TLR Level 3A	03/24/2011 08:00	03/24/2011 07:30	03/24/2011 07:29:43	151.0	108.8	42.2	1	10
TLR Level 3A	03/24/2011 09:00	03/24/2011 08:30	03/24/2011 08:30:12	106.0	61.0	45.0	0	0
TLR Level 3A	03/24/2011 10:00	03/24/2011 09:33	03/24/2011 09:32:41	76.0	32.0	44.0	0	0
TLR Level 3A	03/24/2011 11:00	03/24/2011 10:27	03/24/2011 10:26:33	110.0	80.0	30.0	0	0
TLR Level 3A	03/24/2011 12:00	03/24/2011 11:26	03/24/2011 11:25:53	105.0	72.0	33.0	0	0
TLR Level 3A	03/24/2011 13:00	03/24/2011 12:26	03/24/2011 12:25:38	102.0	62.0	40.0	0	0
TLR Level 3A	03/24/2011 14:00	03/24/2011 13:27	03/24/2011 13:26:02	93.0	55.0	38.0	0	0
TLR Level 3A	03/24/2011 15:00	03/24/2011 14:26	03/24/2011 14:25:57	131.0	107.0	24.0	0	0
TLR Level 0	03/24/2011 14:50	03/24/2011 14:36	03/24/2011 14:36:26	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_6007_20110322_0505.htm

Incident: SWPP_6007_20110322_0505 Date: 03/22/2011 Reliability Coordinator: SWPP

Initial Conditions: using as proxy to control loading on Flt. 5348.

Flowgate: 6007 - GENTLMN3 345 REDWLO3 345 1 Rating: 455 LODF: N/A

TLR Direction: Normal

Effective StartTime: 03/22/2011 06:05 Effective EndTime: 03/24/2011 14:50 TLR Duration: 56 Hours and 45 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule					NNL Relief			Market Relief				Flow			TLR Action Comments	
				Total Tags Cut / Hold	IDC Cut MV	Relief	RC Cut Acknowledge MV	Relief	Hold MV	Relief	CA	IDC MW	RC Actn MW	Type	Mkt	IDC MW	RC Actn MW	Current		Post Cont.
Mar 22 05:45	TLR 3A	NEXT	2-NH	2 / 0	88	7.6	88	7.6	0	0.0	NONE	ED-2	MISO SWPP	0.0	2.0	353	N/A	N/A	N/A	
			Total	2 / 0	88	7.6	88	7.6	0	0.0		Total	MISO SWPP	17.0	17.0					
Mar 22 06:30	TLR 3A	NEXT	2-NH	2 / 0	88	7.6	88	7.6	0	0.0	NONE	ED-2	MISO SWPP	0.0	3.0	313	N/A	N/A	N/A	
			Total	2 / 0	88	7.6	88	7.6	0	0.0		Total	MISO SWPP	7.4	7.4					
Mar 22 07:45	TLR 3A	NEXT	2-NH	2 / 0	88	7.7	88	7.7	0	0.0	NONE	ED-2	MISO SWPP	0.0	2.0	347	N/A	N/A	N/A	
			Total	2 / 0	88	7.7	88	7.7	0	0.0		Total	MISO SWPP	19.3	19.3					
Mar 22 08:31	TLR 3A	NEXT	2-NH	2 / 0	88	7.7	88	7.7	0	0.0	NONE	ED-2	MISO SWPP	0.0	2.0	349	N/A	N/A	N/A	
			Total	2 / 0	88	7.7	88	7.7	0	0.0		Total	MISO SWPP	9.3	9.3					
Mar 22 09:45	TLR 3A	NEXT			NONE						NONE		ED-2	MISO SWPP	0.0	2.0	351	N/A	N/A	N/A
													Total	MISO SWPP	22.3	22.3				

Mar 22 10:34	TLR 5A	NEXT	7-F Total	23 / 0 23 / 0	26 26	2.1 2.1	26 26	2.1 2.1	0 0	0.0 0.0	WAUE Total	1.0 1.0	1.0 1.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 28.6 0.0 0.0 0.0 0.0 28.6	0.0 2.0 0.0 28.6 0.0 0.0 0.0 0.0 28.6	345	N/A	N/A	N/A
Mar 22 11:30	TLR 5A	NEXT	2-NH 7-F Total	2 / 0 60 / 0 62 / 0	88 127 215	7.6 10.0 17.6	88 127 215	7.6 10.0 17.6	0 0 0	0.0 0.0 0.0	WAUE Total	4.0 4.0	4.0 4.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.1 53.2 0.0 0.0 0.0 0.0 55.2	0.0 2.0 0.1 53.2 0.0 0.0 0.0 0.0 55.3	303	N/A	N/A	N/A
Mar 22 12:33	TLR 5A	NEXT	7-F Total	59 / 0 59 / 0	230 230	18.1 18.1	230 230	18.1 18.1	0 0	0.0 0.0	WAUE Total	10.0 10.0	10.0 10.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.2 72.0 19.4 0.0 0.0 93.6	0.0 2.0 0.2 72.0 19.4 0.0 0.0 93.6	339	N/A	N/A	N/A
Mar 22 13:34	TLR 5A	NEXT	7-F Total	61 / 0 61 / 0	184 184	14.6 14.6	184 184	14.6 14.6	0 0	0.0 0.0	WAUE Total	8.0 8.0	8.0 8.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.1 72.0 3.8 0.0 0.0 77.9	0.0 2.0 0.1 72.0 3.8 0.0 0.0 77.9	340	N/A	N/A	N/A
Mar 22 14:27	TLR 5A	NEXT	2-NH 7-F Total	2 / 0 60 / 0 62 / 0	88 164 252	7.7 12.9 20.6	88 164 252	7.7 12.9 20.6	0 0 0	0.0 0.0 0.0	WAUE Total	6.0 6.0	6.0 6.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.1 67.6 0.0 0.0 0.0 69.7	0.0 2.0 0.1 67.6 0.0 0.0 0.0 69.7	333	N/A	N/A	N/A
Mar 22 15:30	TLR 5A	NEXT	7-F Total	61 / 0 61 / 0	149 149	11.5 11.5	149 149	11.5 11.5	0 0	0.0 0.0	WAUE Total	6.0 6.0	6.0 6.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.1 61.7 0.0 0.0 0.0 63.8	0.0 2.0 0.1 61.7 0.0 0.0 0.0 63.8	309	N/A	N/A	N/A
Mar 22 16:30	TLR 5A	NEXT	7-F Total	58 / 0 58 / 0	140 140	10.5 10.5	140 140	10.5 10.5	0 0	0.0 0.0	WAUE Total	6.0 6.0	6.0 6.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.1 60.6 0.0 0.0 0.0 62.7	0.0 2.0 0.1 60.6 0.0 0.0 0.0 62.7	316	N/A	N/A	N/A
Mar 22 17:30	TLR 3A	NEXT			NONE						NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	318	N/A	N/A	N/A
Mar 22 18:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	88 88	7.7 7.7	88 88	7.7 7.7	0 0	0.0 0.0	NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	343	N/A	N/A	N/A
Mar 22 19:27	TLR 3A	NEXT			NONE						NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	327	N/A	N/A	N/A
Mar 22 20:27	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	88 88	7.1 7.1	88 88	7.1 7.1	0 0	0.0 0.0	NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	320	N/A	N/A	N/A
Mar 22 21:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	208 208	18.2 18.2	208 208	18.2 18.2	0 0	0.0 0.0	NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	311	N/A	N/A	N/A
Mar 22 22:27	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	208 208	18.1 18.1	208 208	18.1 18.1	0 0	0.0 0.0	NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	324	N/A	N/A	N/A
Mar 22 23:27	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	182 182	15.8 15.8	182 182	15.8 15.8	0 0	0.0 0.0	NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	329	N/A	N/A	N/A
Mar 22 00:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	182 182	15.8 15.8	182 182	15.8 15.8	0 0	0.0 0.0	NONE			ED-2 ED-5 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 13.0 0.0 11.0 0.0 0.0 24.0	0.0 13.0 0.0 11.0 0.0 0.0 24.0	333	N/A	N/A	N/A

Mar 23 01:27	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	182 182	15.8 15.8	182 182	15.8 15.8	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	333	N/A	N/A	N/A		
Mar 23 02:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	182 182	15.8 15.8	182 182	15.8 15.8	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	337	N/A	N/A	N/A		
Mar 23 03:31	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	182 182	15.8 15.8	182 182	15.8 15.8	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	316	N/A	N/A	N/A		
Mar 23 04:44	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	182 182	15.8 15.8	182 182	15.8 15.8	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	341	N/A	N/A	N/A		
Mar 23 05:29	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 2 / 0 3 / 0	50 37 87	3.2 3.9 7.1	50 37 87	3.2 3.9 7.1	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	355	N/A	N/A	N/A		
Mar 23 06:31	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 2 / 0 3 / 0	50 76 126	3.2 3.0 11.1	50 76 126	3.2 3.0 11.1	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 22.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 24.0	310	N/A	N/A	N/A		
Mar 23 07:55	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	50 50	3.2 3.2	50 50	3.2 3.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 11.8 0.0 0.0 13.8	0.0 2.0 0.0 11.8 0.0 0.0 13.8	320	N/A	N/A	N/A		
Mar 23 08:27	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	50 50	3.2 3.2	50 50	3.2 3.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 1.8 0.0 0.0 3.8	0.0 2.0 0.0 1.8 0.0 0.0 3.8	346	N/A	N/A	N/A		
Mar 23 09:28	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	338	N/A	N/A	N/A		
Mar 23 10:27	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	16 16	1.0 1.0	16 16	1.0 1.0	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	336	N/A	N/A	N/A		
Mar 23 11:34	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	50 50	3.2 3.2	50 50	3.2 3.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 0.8 0.0 0.0 2.8	0.0 2.0 0.0 0.8 0.0 0.0 2.8	346	N/A	N/A	N/A		
Mar 23 12:31	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 2 / 0 62 / 1 65 / 1	50 78 126 254	3.2 8.4 10.2 21.7	50 78 126 254	3.2 8.4 10.2 21.7	0 0 10 10	0.0 0.0 0.7 0.7	WAUE Total	5.0 5.0	5.0 5.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.1 52.4 0.0 0.0 0.0 0.0 54.4	0.0 2.0 0.1 52.4 0.0 0.0 0.0 0.0 54.5	338	N/A	N/A	N/A
Mar 23 13:34	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 47 / 0 49 / 0	50 26 71 147	3.2 2.6 5.6 11.3	50 26 71 147	3.2 2.6 5.6 11.3	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	2.0 2.0	2.0 2.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 37.7	0.0 2.0 0.0 35.7 0.0 0.0 0.0 0.0 37.7	381	N/A	N/A	N/A
Mar 23 14:33	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 47 / 0 49 / 0	50 26 65 145	3.1 2.7 5.5 11.1	50 26 65 145	3.1 2.7 5.5 11.1	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	2.0 2.0	2.0 2.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 36.3	0.0 2.0 0.0 34.3 0.0 0.0 0.0 0.0 36.3	337	N/A	N/A	N/A
Mar 23 15:31	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 47 / 0 49 / 0	50 26 70 146	3.2 2.7 6.0 11.9	50 26 70 146	3.2 2.7 6.0 11.9	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	2.0 2.0	2.0 2.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 35.6	0.0 2.0 0.0 33.6 0.0 0.0 0.0 0.0 35.6	335	N/A	N/A	N/A

Mar 23 16:27	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 48 / 0 50 / 0	50 26 73 149	3.1 2.4 5.4 10.9	50 28 73 149	3.1 2.4 5.4 10.9	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	2.0 2.0	2.0 2.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 36.4	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 36.4	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 36.4	331	N/A	N/A	N/A
Mar 23 17:25	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 2 / 0 59 / 0 59 / 0	50 78 89 217	3.0 8.2 9.6 17.7	50 78 89 217	3.0 8.2 9.6 17.7	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	3.0 3.0	3.0 3.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 40.8	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 40.8	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 40.8	338	N/A	N/A	N/A
Mar 23 18:26	TLR 5A	NEXT	2-NH 6-NN 7-F Total	2 / 0 2 / 0 87 / 0 71 / 0	80 78 132 290	4.7 8.1 9.7 22.5	80 78 132 290	4.7 8.1 9.7 22.5	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	5.0 5.0	5.0 5.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 52.2	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 52.2	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 52.2	333	N/A	N/A	N/A
Mar 23 19:28	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 87 / 0 69 / 0	50 28 166 242	3.0 2.4 12.2 17.6	50 28 166 242	3.0 2.4 12.2 17.6	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	6.0 6.0	7.0 7.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 65.2	0.0 2.0 0.1 0.1 83.1 0.0 0.0 0.0 65.2	0.0 2.0 0.1 0.1 83.1 0.0 0.0 0.0 65.2	316	N/A	N/A	N/A
Mar 23 20:31	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 83 / 0 65 / 0	50 26 161 237	3.0 2.4 11.8 17.2	50 26 161 237	3.0 2.4 11.8 17.2	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	6.0 6.0	6.0 6.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 70.8	0.0 7.0 0.1 0.1 83.7 0.0 0.0 0.0 70.8	0.0 7.0 0.1 0.1 83.7 0.0 0.0 0.0 70.8	254	N/A	N/A	N/A
Mar 23 21:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	182 182	15.6 15.6	182 182	15.6 15.6	0 0	0.0 0.0	NONE Total	NONE 0.0	NONE 0.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 24.0	0.0 2.0 0.0 22.0 0.0 0.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 0.0 0.0 24.0	318	N/A	N/A	N/A
Mar 23 22:31	TLR 3A	NEXT			NONE		NONE				NONE Total	NONE 0.0	NONE 0.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 24.0	0.0 2.0 0.0 22.0 0.0 0.0 0.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 0.0 0.0 0.0 24.0	329	N/A	N/A	N/A
Mar 23 23:27	TLR 5A	NEXT	1-NS 7-F Total	1 / 0 83 / 0 64 / 0	100 145 245	7.0 11.0 18.0	100 145 245	7.0 11.0 18.0	0 0 0	0.0 0.0 0.0	WAUE Total	6.0 6.0	6.0 6.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 64.1	0.1 2.0 0.0 0.0 62.0 0.0 0.0 0.0 64.1	0.1 2.0 0.0 0.0 62.0 0.0 0.0 0.0 64.1	329	N/A	N/A	N/A
Mar 24 00:26	TLR 5A	NEXT	1-NS 7-F Total	1 / 0 81 / 0 62 / 0	100 174 274	7.0 13.3 20.3	100 174 274	7.0 13.3 20.3	0 0 0	0.0 0.0 0.0	WAUE Total	8.0 8.0	8.0 8.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 76.7	0.1 2.0 0.0 74.6 0.0 0.0 0.0 0.0 76.7	0.1 2.0 0.0 74.6 0.0 0.0 0.0 0.0 76.7	324	N/A	N/A	N/A
Mar 24 01:26	TLR 5A	NEXT	1-NS 7-F Total	1 / 0 59 / 0 60 / 0	100 118 218	7.0 9.0 16.0	100 118 218	7.0 9.0 16.0	0 0 0	0.0 0.0 0.0	WAUE Total	5.0 5.0	5.0 5.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 56.9	0.1 2.0 0.0 54.8 0.0 0.0 0.0 0.0 56.9	0.1 2.0 0.0 54.8 0.0 0.0 0.0 0.0 56.9	350	N/A	N/A	N/A
Mar 24 02:27	TLR 5A	NEXT	1-NS 7-F Total	1 / 0 59 / 0 60 / 0	100 168 268	7.0 12.9 19.9	100 168 268	7.0 12.9 19.9	0 0 0	0.0 0.0 0.0	WAUE Total	8.0 8.0	8.0 8.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 75.5	0.0 2.0 0.1 73.4 0.0 0.0 0.0 0.0 75.5	0.0 2.0 0.1 73.4 0.0 0.0 0.0 0.0 75.5	320	N/A	N/A	N/A
Mar 24 03:26	TLR 5A	NEXT	1-NS 7-F Total	1 / 0 81 / 0 62 / 0	100 162 262	7.0 12.3 19.3	100 162 262	7.0 12.3 19.3	0 0 0	0.0 0.0 0.0	WAUE Total	7.0 7.0	7.0 7.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 73.4	0.0 2.0 0.1 71.2 0.0 0.0 0.0 0.0 73.4	0.0 2.0 0.1 71.2 0.0 0.0 0.0 0.0 73.4	342	N/A	N/A	N/A
Mar 24 04:26	TLR 5A	NEXT	1-NS 7-F Total	1 / 0 80 / 0 61 / 0	100 149 249	7.0 11.3 18.3	100 149 249	7.0 11.3 18.3	0 0 0	0.0 0.0 0.0	WAUE Total	7.0 7.0	7.0 7.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 68.0	0.0 2.0 0.1 65.9 0.0 0.0 0.0 0.0 68.0	0.0 2.0 0.1 65.9 0.0 0.0 0.0 0.0 68.0	337	N/A	N/A	N/A
Mar 24 05:29	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 51 / 0 52 / 0	25 79 104	2.9 5.6 8.6	25 79 104	2.9 5.6 8.6	0 0 0	0.0 0.0 0.0	WAUE Total	3.0 3.0	3.0 3.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP 41.3	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 41.3	0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 41.3	313	N/A	N/A	N/A

Mar 24 06:33	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	10 10	1.2 1.2	10 10	1.2 1.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 22.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 24.0	250	N/A	N/A	N/A
Mar 24 07:30	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	10 10	1.2 1.2	10 10	1.2 1.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 39.0 0.0 41.0	0.0 2.0 0.0 39.0 0.0 41.0	244	N/A	N/A	N/A
Mar 24 08:30	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 43.0 0.0 45.0	0.0 2.0 0.0 43.0 0.0 45.0	267	N/A	N/A	N/A
Mar 24 09:33	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 42.0 0.0 44.0	0.0 2.0 0.0 42.0 0.0 44.0	301	N/A	N/A	N/A
Mar 24 10:27	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 28.0 0.0 30.0	0.0 2.0 0.0 28.0 0.0 30.0	265	N/A	N/A	N/A
Mar 24 11:20	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 31.0 0.0 33.0	0.0 2.0 0.0 31.0 0.0 33.0	270	N/A	N/A	N/A
Mar 24 12:20	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 38.0 0.0 40.0	0.0 2.0 0.0 38.0 0.0 40.0	287	N/A	N/A	N/A
Mar 24 13:27	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 3.0 0.0 35.0 0.0 38.0	0.0 3.0 0.0 35.0 0.0 38.0	291	N/A	N/A	N/A
Mar 24 14:20	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 2.0 0.0 22.0 0.0 24.0	0.0 2.0 0.0 22.0 0.0 24.0	231	N/A	N/A	N/A
Mar 24 14:30	TLR 0	CURRENT	NONE								NONE	NONE				225	N/A	N/A	N/A

TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MW	RC Cut Acknowledge MW	Hold MW
0	0	0	0	0
1	6	600	600	0
2	60	3140	3140	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	19	548	548	0
7	1300	2972	2972	10
Total	1375	7260	7260	10

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
WAUE	118.0	119.0
Total	118.0	119.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
MISO	ED-2	0.3	0.3
	ED-6	1.6	1.4
	FIRM-7	0.0	0.0
Total MISO		1.9	1.7
SWPP	ED-2	130.0	130.0
	ED-6	1960.8	1960.7
	FIRM-7	23.2	23.2
Total for SWPP		2134.0	2133.9
Total		2135.9	2135.6

Date	Time	Category	Issue
3/22/2011	05:45	TLR - 3a Initial	NPPD TO (Bruce) notified RC due to Cambridge-McCook 115 kV outage will need to control FG to 340 MW and cannot open Red Willow 115kV bkr 1110
3/22/2011	10:31	TLR - 5a Reissue	Issued TLR Level 5A due to ran out of non firm to control flowgate. WAPA NNL=0.7 MWs.
3/22/2011	10:58	Effective Limit	Set effective limit to 345 MWs. This is due to a RTCA contingency showing up. (Sweetwater-Grand Island flo Sweetwater Axtel.) So I used Flgt. 6007 as a prozy for this with NPPD approval.
3/22/2011	11:29	TLR - 5a Initial	WAPA NNL=4.4. Increase of 3.7 MWs. Dropped Garrison 28 MWs. Had conversation with MISO RC and he said WAPA expects NPPD to push back with generation to help. I could not convince him that was not how it worked. It is WAPA responsibility to meet his NNL without the aid of NPPD generators. He said there are no dec units and could not comprehend the concept of net GSF.
3/22/2011	14:25	TLR - 5a Reissue	WAPA NNL=6.4. A decrease of 1.2 MWs.
3/22/2011	15:29	TLR - 5a Reissue	WAPA NNL=5.7. A decrease of 0.7 MWs.
3/22/2011	15:22	Transmission	NPPD reports they curtailed Sidney 29 MWs to zero due to Transmission issues such as Level 5 on Flgt. 6007.
3/22/2011	17:28	TLR - 3a Reissue	
3/23/2011	12:29	TLR - 5a Initial	Ran out of non-firm. WAPA NNL=4.7. MISO using Laramie and LelandOlds and Garrison units to meet requirements.
3/23/2011	13:32	TLR - 5a Reissue	WAPA NNL=2.1 MWs A decrease of 2.6 MWs.
3/23/2011	14:26	Transmission	WAPA NNL=2.0 MWs A decrease of 0.1 MWs.
3/23/2011	15:30	TLR - 5a Reissue	WAPA NNL=1.7 MWs. A decrease of 0.3 MWs.
3/23/2011	16:27	TLR - 5a Reissue	WAPA NNL=2.0 MWs. An increase of 0.3 MWs.
3/23/2011	21:26	TLR - 3a Reissue	
3/23/2011	23:26	TLR - 5a Reissue	
3/24/2011	06:32	TLR - 3a Reissue	
3/24/2011	14:36	TLR - 0	