

**SPP TLR 5 Investigation Report
Flowgate 6007
(Gentleman – Red Willow 345 kV)
(GENTLMREDWIL)
TLR Level 5: July 24-25, 2009
Report Issued: August 10, 2009**

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 July 24-25, 2009. Flowgate 6007 is an SPP flowgate. This flowgate is used to monitor and control voltage and loading on several facilities in the area. The Level 5 TLR was in effect from 16:00 until 21:00 CST on July 24 and again from 10:25 until 22:30 on July 25, 2009. Projected flows on the Gentleman – Red Willow 345 kV line were expected to exceed the SOL.

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

The rating of this flowgate is determined by periodic review by NPPD depending upon current and anticipated system conditions. At the time the Level 5A TLR was issued, the Limiting Element was rated at 485 MVA. Flow on the Limiting Element was 416 MVA.

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 on pages 3-10.

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

There were no unplanned outages that contributed to this TLR.

5. Procedures implemented prior to hold/curtailment.

Non-firm transactions had already been curtailed due to TLR action. The TLR was escalated to a Level 5 in order to curtail firm transactions and firm market flow.

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.

Two tags were excluded for a total of thirteen hours each during this TLR. Due to modeling in the IDC and generating unit status in the SPP Market, it was felt that these tags were being curtailed erroneously. The tags were NPPD to MEC (EE07003) and NPPD to MPS (KCU5281). At the time of the TLR, NPPD was a participant in the SPP EIS Market, MEC and MPS were not.

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, see pages 11-12. Times in the RC Log are CST.

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

The next day study process did not indicate an issue with this flowgate based upon conditions at the time of the daily peak.

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, see page 13.

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 a combination of generation patterns, load, and system flows. Reconfiguration is sometimes a viable companion to TLR on this flowgate. However, it was not available at the time of this TLR.

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 on pages 3-10. WAUE redispatched to provide relief for NNL responsibility during this TLR. Generating unit limitations prevented WAUE from providing its total NNL relief obligation for five hours during the TLR.

TLR Event History

6007 - GENTLMN3 345 REDWILO3 345 1

Status	TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
								Tags	MW
SUPERSEDED	3A	07/24/2009 07:00	07/24/2009 06:32	07/24/2009 06:31:54	29.0	0.0	29.1	1	10
SUPERSEDED	3A	07/24/2009 08:00	07/24/2009 07:27	07/24/2009 07:27:14	31.0	0.0	31.0	1	15
SUPERSEDED	3A	07/24/2009 09:00	07/24/2009 08:27	07/24/2009 08:27:32	59.0	0.0	59.0	1	9
SUPERSEDED	3A	07/24/2009 10:00	07/24/2009 09:26	07/24/2009 09:26:02	15.0	0.0	15.0	0	0
SUPERSEDED	3A	07/24/2009 11:00	07/24/2009 10:26	07/24/2009 10:26:13	30.0	0.0	30.1	2	27
SUPERSEDED	3A	07/24/2009 12:00	07/24/2009 11:29	07/24/2009 11:28:45	40.0	10.0	30.0	2	35
SUPERSEDED	3A	07/24/2009 13:00	07/24/2009 12:27	07/24/2009 12:27:16	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/24/2009 14:00	07/24/2009 13:29	07/24/2009 13:28:51	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/24/2009 15:00	07/24/2009 14:27	07/24/2009 14:27:30	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/24/2009 16:00	07/24/2009 15:31	07/24/2009 15:30:47	31.0	0.0	31.0	2	35
SUPERSEDED	5A	07/24/2009 17:00	07/24/2009 16:31	07/24/2009 16:31:18	45.0	0.0	46.9	38	85
SUPERSEDED	5A	07/24/2009 18:00	07/24/2009 17:30	07/24/2009 17:28:27	44.0	0.0	47.3	49	123
SUPERSEDED	5A	07/24/2009 19:00	07/24/2009 18:30	07/24/2009 18:29:25	22.0	0.0	29.0	2	35
SUPERSEDED	5A	07/24/2009 20:00	07/24/2009 19:27	07/24/2009 19:26:01	27.0	0.0	34.0	2	35
SUPERSEDED	3A	07/24/2009 21:00	07/24/2009 20:26	07/24/2009 20:25:46	50.0	0.0	50.0	1	50
SUPERSEDED	3A	07/24/2009 22:00	07/24/2009 21:27	07/24/2009 21:27:08	50.0	0.0	50.1	1	31
SUPERSEDED	3A	07/24/2009 23:00	07/24/2009 22:28	07/24/2009 22:27:50	92.0	0.0	92.1	3	197
SUPERSEDED	3A	07/25/2009 00:00	07/24/2009 23:26	07/24/2009 23:26:37	94.0	0.0	94.1	5	272
SUPERSEDED	3A	07/25/2009 01:00	07/25/2009 00:27	07/25/2009 00:27:03	111.0	10.8	100.2	5	320
SUPERSEDED	3A	07/25/2009 02:15	07/25/2009 01:57	07/25/2009 01:56:59	57.0	0.0	57.0	3	174
SUPERSEDED	3A	07/25/2009 03:00	07/25/2009 02:27	07/25/2009 02:27:33	94.0	0.1	93.9	5	313
SUPERSEDED	3A	07/25/2009 04:00	07/25/2009 03:28	07/25/2009 03:27:37	25.0	0.0	25.3	3	66
SUPERSEDED	3A	07/25/2009 05:00	07/25/2009 04:27	07/25/2009 04:26:52	48.0	0.0	48.1	3	145
SUPERSEDED	3A	07/25/2009 06:00	07/25/2009 05:27	07/25/2009 05:26:30	100.0	33.1	66.9	4	310
SUPERSEDED	3A	07/25/2009 07:00	07/25/2009 06:27	07/25/2009 06:27:02	150.0	98.5	51.5	3	260
SUPERSEDED	3A	07/25/2009 08:00	07/25/2009 07:27	07/25/2009 07:26:43	150.0	74.4	75.6	3	350
SUPERSEDED	3A	07/25/2009 09:00	07/25/2009 08:30	07/25/2009 08:29:21	0.0	0.0	6.2	2	79
SUPERSEDED	3A	07/25/2009 10:00	07/25/2009 09:32	07/25/2009 09:31:51	30.0	0.0	30.0	3	174
SUPERSEDED	5B	07/25/2009 10:25	07/25/2009 10:15	07/25/2009 10:14:42	30.0	0.0	30.8	21	244
SUPERSEDED	5A	07/25/2009 12:00	07/25/2009 11:31	07/25/2009 11:30:10	210.0	0.0	213.0	66	784
SUPERSEDED	5A	07/25/2009 13:00	07/25/2009 12:36	07/25/2009 12:35:25	102.0	0.0	111.7	63	464
SUPERSEDED	5A	07/25/2009 14:00	07/25/2009 13:31	07/25/2009 13:29:00	122.0	0.0	131.4	66	518
SUPERSEDED	5A	07/25/2009 15:00	07/25/2009 14:27	07/25/2009 14:27:02	120.0	0.0	128.6	57	513
SUPERSEDED	5A	07/25/2009 16:00	07/25/2009 15:26	07/25/2009 15:25:40	142.0	0.0	150.5	54	573
SUPERSEDED	5A	07/25/2009 17:00	07/25/2009 16:28	07/25/2009 16:26:51	140.0	0.0	148.8	56	573
SUPERSEDED	5A	07/25/2009 18:00	07/25/2009 17:26	07/25/2009 17:25:50	118.0	0.0	124.8	55	500
SUPERSEDED	5A	07/25/2009 19:00	07/25/2009 18:27	07/25/2009 18:26:29	89.0	0.0	95.5	58	408
SUPERSEDED	5A	07/25/2009 20:00	07/25/2009 19:26	07/25/2009 19:25:50	120.0	0.0	125.4	60	422
SUPERSEDED	5A	07/25/2009 21:00	07/25/2009 20:27	07/25/2009 20:27:05	33.0	0.0	73.0	3	250
SUPERSEDED	5A	07/25/2009 22:00	07/25/2009 21:27	07/25/2009 21:26:46	84.0	0.0	85.3	34	308
TERMINATED	0	07/25/2009 22:30	07/25/2009 22:19	07/25/2009 22:19:20	0.0	0.0	0.0	0	0

Jul 24 11:29	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 1 / 0 2 / 0	10 25 35	0.5 3.5 4.0	10 25 35	0.5 3.5 4.0	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 12.0 0.0 14.0 0.0 0.0 26.0	0.0 12.0 0.0 14.0 0.0 0.0 26.0	408	N/A	N/A	N/A		
Jul 24 12:27	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	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	425	N/A	N/A	N/A		
Jul 24 13:29	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	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	423	N/A	N/A	N/A		
Jul 24 14:27	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	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	432	N/A	N/A	N/A		
Jul 24 15:31	TLR 5A	NEXT	2-NH 6-NN Total	1 / 0 1 / 0 2 / 0	10 25 35	0.5 3.5 4.0	10 25 35	0.5 3.5 4.0	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP	0.0 11.0 0.0 16.0 0.0 0.0 27.0	0.0 11.0 0.0 16.0 0.0 0.0 27.0	418	N/A	N/A	N/A		
Jul 24 16:31	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 38 / 0 38 / 0	10 25 50 85	0.5 3.5 5.5 9.6	10 25 50 85	0.5 3.5 5.5 9.6	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	1.0 1.0	1.0 1.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP	0.0 11.0 0.5 25.0 0.0 0.0 36.5	0.0 11.0 0.5 25.0 0.0 0.0 36.5	420	N/A	N/A	N/A
Jul 24 17:30	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 47 / 0 49 / 0	10 25 88 123	0.5 3.5 10.2 14.2	10 25 88 123	0.5 3.5 10.2 14.2	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	0.0 11.0 1.1 19.2 0.0 0.0 31.3	0.0 11.0 1.1 19.2 0.0 0.0 31.3	405	N/A	N/A	N/A

Jul 24 18:30	TLR 5A	NEXT	2-NH 6-NN Total	1 / 0 1 / 0 2 / 0	10 25 35	0.5 3.5 4.0	10 25 35	0.5 3.5 4.0	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP	0.0 11.0 0.0 14.0 0.0 0.0 0.0 0.0	0.0 11.0 0.0 14.0 0.0 0.0 0.0 0.0	398	N/A	N/A	N/A
Jul 24 19:27	TLR 5A	NEXT	2-NH 6-NN Total	1 / 1 1 / 0 2 / 1	10 25 35	0.5 3.5 4.0	10 25 35	0.5 3.5 4.0	10 0 10	1.0 0.0 1.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP	0.0 10.0 0.0 20.0 0.0 0.0 0.0 0.0	0.0 10.0 0.0 20.0 0.0 0.0 0.0 0.0	387	N/A	N/A	N/A
Jul 24 20:28	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	7.1 7.1	50 50	7.1 7.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 11.0 0.0 31.9 0.0 0.0	0.0 11.0 0.0 31.9 0.0 0.0	402	N/A	N/A	N/A
Jul 24 21:27	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	31 31	4.4 4.4	31 31	4.4 4.4	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 11.0 0.0 34.7 0.0 0.0	0.0 11.0 0.0 34.7 0.0 0.0	385	N/A	N/A	N/A
Jul 24 22:28	TLR 3A	NEXT	2-NH 6-NN Total	3 / 0 3 / 0 3 / 0	197 70 197	25.8 8.1 25.8	197 70 197	25.8 8.1 25.8	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 66.3 0.0 0.0 0.0 0.0	0.0 66.3 0.0 0.0 0.0 0.0	411	N/A	N/A	N/A
Jul 24 23:26	TLR 3A	NEXT	2-NH 6-NN Total	3 / 0 2 / 0 5 / 0	245 27 272	29.7 3.5 33.1	245 27 272	29.7 3.5 33.1	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 61.0 0.0 0.0 0.0 0.0	0.0 61.0 0.0 0.0 0.0 0.0	410	N/A	N/A	N/A
Jul 25 00:27	TLR 3A	NEXT	2-NH 6-NN Total	3 / 0 2 / 0 5 / 0	250 70 320	30.1 8.1 38.2	250 70 320	30.1 8.1 38.2	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 62.0 0.0 0.0 0.0 0.0	0.0 62.0 0.0 0.0 0.0 0.0	413	N/A	N/A	N/A
Jul 25 01:57	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	119 119	16.0 16.0	119 119	16.0 16.0	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 36.7 0.0 0.0 0.0 0.0	0.0 36.7 0.0 0.0 0.0 0.0	400	N/A	N/A	N/A

Jul 25 02:27	TLR 3A	NEXT	2-NH 6-NN Total	3 / 0 2 / 0 5 / 0	255 58 313	30.5 7.5 37.9	255 58 313	30.5 7.5 37.9	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 56.0 0.0 0.0 0.0 0.0	0.0 56.0 0.0 0.0 0.0 0.0	404	N/A	N/A	N/A
Jul 25 03:28	TLR 3A	NEXT	2-NH Total	3 / 0 3 / 0	66 66	8.3 8.3	66 66	8.3 8.3	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 16.9 0.0 0.0 0.0 0.0	0.0 16.9 0.0 0.0 0.0 0.0	401	N/A	N/A	N/A
Jul 25 04:27	TLR 3A	NEXT	2-NH Total	3 / 0 3 / 0	145 145	14.4 14.4	145 145	14.4 14.4	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 33.7 0.0 0.0 0.0 0.0	0.0 33.7 0.0 0.0 0.0 0.0	363	N/A	N/A	N/A
Jul 25 05:27	TLR 3A	NEXT	2-NH 6-NN Total	3 / 0 1 / 0 4 / 0	290 20 310	32.8 1.1 33.9	290 20 310	32.8 1.1 33.9	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 33.0 0.0 0.0 0.0 0.0	0.0 33.0 0.0 0.0 0.0 0.0	390	N/A	N/A	N/A
Jul 25 06:27	TLR 3A	NEXT	2-NH Total	3 / 0 3 / 0	260 260	30.5 30.5	260 260	30.5 30.5	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 21.0 0.0 0.0 0.0 0.0	0.0 21.0 0.0 0.0 0.0 0.0	394	N/A	N/A	N/A
Jul 25 07:27	TLR 3A	NEXT	2-NH 6-NN Total	2 / 0 1 / 0 3 / 0	250 100 350	29.6 7.0 36.6	250 100 350	29.6 7.0 36.6	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 39.0 0.0 0.0 0.0 0.0	0.0 39.0 0.0 0.0 0.0 0.0	383	N/A	N/A	N/A
Jul 25 08:30	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	378	N/A	N/A	N/A
Jul 25 09:32	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	50 50	4.1 4.1	50 50	4.1 4.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 16.3 0.0 0.0 0.0 0.0	0.0 16.3 0.0 0.0 0.0 0.0	400	N/A	N/A	N/A

Jul 25 10:15	TLR 5B	CURRENT	2-NH 6-NN 7-F Total	2 / 0 1 / 0 18 / 0 21 / 0	177 49 18 244	23.6 3.4 1.7 28.8	177 49 18 244	23.6 3.4 1.7 28.8	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 134.0 5.1 0.0 0.0 21.7 160.8	0.0 134.0 5.1 0.0 0.0 21.7 160.8	415	N/A	N/A	N/A		
		NEXT	2-NH 6-NN 7-F Total	3 / 0 1 / 0 18 / 0 22 / 0	300 100 21 424	33.8 7.0 1.7 42.5	300 100 21 421	33.8 7.0 1.7 42.5	0 0 0 0	0.0 0.0 0.0 0.0	NONE	NONE									
Jul 25 11:31	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 1 / 0 82 / 0 66 / 0	300 100 384 784	33.7 7.0 43.8 84.5	300 100 384 784	33.7 7.0 43.8 84.5	0 0 0 0	0.0 0.0 0.0 0.0	WAUE Total	7.0 7.0	7.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP	0.0 103.0 8.1 0.0 0.0 12.7 0.0 0.0 121.8	0.0 103.0 8.1 0.0 0.0 12.7 0.0 0.0 121.8	390	N/A	N/A	N/A
Jul 25 12:36	TLR 5A	NEXT	2-NH 7-F Total	3 / 0 80 / 0 63 / 0	300 164 464	33.6 18.1 51.7	300 164 464	33.6 18.1 51.7	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP	0.0 57.8 2.1 0.0 0.0 0.0 59.9	0.0 57.8 2.1 0.0 0.0 0.0 59.9	404	N/A	N/A	N/A		
Jul 25 13:31	TLR 5A	NEXT	7-F Total	83 / 0 63 / 0	218 218	24.1 24.1	218 218	24.1 24.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP	0.0 71.0 2.7 0.0 0.0 0.0 73.6	0.0 71.0 2.7 0.0 0.0 0.0 73.6	394	N/A	N/A	N/A		
Jul 25 14:27	TLR 5A	NEXT	2-NH 7-F Total	3 / 0 54 / 1 57 / 1	300 213 513	33.6 17.5 51.1	300 213 513	33.6 17.5 51.1	0 78 78	0.0 6.4 6.4	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP	0.0 74.6 2.9 0.0 0.0 0.0 77.4	0.0 74.6 2.9 0.0 0.0 0.0 77.5	412	N/A	N/A	N/A		
Jul 25 15:26	TLR 5A	NEXT	2-NH 7-F Total	3 / 0 51 / 1 54 / 1	300 273 573	33.6 22.5 56.1	300 273 573	33.6 22.5 56.1	0 13 13	0.0 1.1 1.1	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP	0.0 90.7 3.8 0.0 0.0 0.0 94.4	0.0 90.7 3.8 0.0 0.0 0.0 94.5	408	N/A	N/A	N/A		

Jul 25 16:28	TLR 5A	NEXT	2-NH 7-F Total	3 / 0 53 / 0 56 / 0	300 273 573	33.6 22.5 56.1	300 273 573	33.6 22.5 56.1	0 0 0	0.0 0.0 0.0	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 84.6 3.4 0.0 0.0 0.0 0.0 0.0 88.0	0.0 84.6 3.4 0.0 0.0 0.0 0.0 0.0 88.0	407	N/A	N/A	N/A
Jul 25 17:26	TLR 5A	NEXT	2-NH 7-F Total	2 / 0 53 / 1 55 / 1	250 250 500	29.5 20.6 50.1	250 250 500	29.5 20.6 50.1	0 10 10	0.0 0.8 0.8	WAUE Total	4.0 4.0	4.0 4.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 87.5 3.1 0.0 0.0 0.0 0.0 0.0 70.6	0.0 87.5 3.1 0.0 0.0 0.0 0.0 0.0 70.6	408	N/A	N/A	N/A
Jul 25 18:27	TLR 5A	NEXT	2-NH 7-F Total	2 / 0 56 / 0 58 / 0	250 158 408	29.5 13.6 43.1	250 158 408	29.5 13.6 43.1	0 0 0	0.0 0.0 0.0	WAUE Total	3.0 3.0	3.0 3.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 47.6 2.2 0.0 0.0 0.0 0.0 0.0 49.7	0.0 47.6 2.2 0.0 0.0 0.0 0.0 0.0 49.7	385	N/A	N/A	N/A
Jul 25 19:28	TLR 5A	NEXT	2-NH 7-F Total	2 / 0 58 / 0 60 / 0	250 172 422	29.7 19.7 49.4	250 172 422	29.7 19.7 49.4	0 0 0	0.0 0.0 0.0	WAUE Total	3.0 3.0	3.0 3.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 70.9 2.3 0.0 0.0 0.0 0.0 0.0 73.2	0.0 70.9 2.3 0.0 0.0 0.0 0.0 0.0 73.2	431	N/A	N/A	N/A
Jul 25 20:27	TLR 5A	NEXT	2-NH 8-NN Total	2 / 0 1 / 0 3 / 0	200 50 250	26.0 7.0 33.0	200 50 250	26.0 7.0 33.0	0 0 0	0.0 0.0 0.0	NONE		ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 40.0 0.0 0.0 0.0 0.0 0.0 0.0 40.0	0.0 40.0 0.0 0.0 0.0 0.0 0.0 0.0 40.0	404	N/A	N/A	N/A	
Jul 25 21:27	TLR 5A	NEXT	2-NH 8-NN 7-F Total	3 / 0 1 / 0 30 / 0 34 / 0	220 50 38 308	27.6 7.0 3.2 37.8	220 50 38 308	27.6 7.0 3.2 37.8	0 0 0 0	0.0 0.0 0.0 0.0	NONE		ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP Total	0.0 47.0 0.0 0.0 0.0 0.0 0.0 0.0 47.0	0.0 47.0 0.0 0.0 0.0 0.0 0.0 0.0 47.0	403	N/A	N/A	N/A	
Jul 25 22:19	TLR 0	CURRENT	NONE								NONE		NONE				433	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	0	0	0	0
2	67	5344	5344	10
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	25	908	908	0
7	659	2320	2320	101
Total	751	8570	8570	111

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
WAUE	25.0	25.0
Total	25.0	25.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
MISO	ED-2	0.0	0.0
	ED-6	35.3	35.3
	FIRM-7	0.0	0.0
Total MISO		35.3	35.3
SWPP	ED-2	1476.4	1476.5
	ED-6	273.4	273.4
	FIRM-7	34.4	34.4
Total for SWPP		1784.2	1784.3
Total		1819.5	1819.7

08/11/2009 14:45:09 (CST)

OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813

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	A	B	C	D
271	Reliability Log for July, 24			2009
272	Time	Initials	Comments	
277	0731	MRH	issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
278	0827	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
279	0927	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
280	1026	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
281	1126	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
282	1228	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
283	1327	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
284	1428	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
285	1527	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
286	1630	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING AND FEASIBILITY	
287	1731	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING AND FEASIBILITY	
288	1734	MRH	MISO -Bill advised WAUE has a .9 NNL responsibility for TLR 5A FG 6007 raise antelope valley 7.4 and lower Laramie river 7.4	
289	1828	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING AND FEASIBILITY Waue NNL =1.8 mw raise Antelope Valley 14.8 @ -.09 gsf and lower Laramie River 14.8@+12.3 gsf=1.8mw	
290	1929	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING AND FEASIBILITY Waue NNL =0 mw	
291	2026	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING AND FEASIBILITY Waue NNL =0 mw	
292	2125	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
293	2227	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
294	2327	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
295				
296				
297	Reliability Log for July, 25			2009
298	Time	Initials	Comments	
299	0026	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
300	0127	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
301	0256	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
302	0327	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
303	0427	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
304	0526	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
305	0626	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
306	0727	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
307	0827	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
308	0927	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
309	1031	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
310	1108	MRH	MISO -Bob advised WAUE has a .2 NNL responsibility for TLR 5A FG 6007 - Wapa to Inc Garrison and Dec Oahe 12.2 Mws.	
311	1114	MRH	Re-issued TLR Level 5B on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY Excluded TAGS NPPD 7003 & 5281	

312	1230	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY	
313	1236	MRH	MISO -Bob advised WAUE has a 6.7 NNL responsibility for TLR 5A FG 6007	
314	1259	MRH	MISO-Bob was advised WAUE is unable met their NNL repsonibility with out shedding load. I advis MISO that I did not want WAUE to shed load but please tell WAUE to do the best they can to met their obilgation. This is in reference to FG6007.	
315	1313	MRH	MISO-Jeff reports WAUE going to Inc Garrison up 175 MWs and drop Big Bend 35 and Drop Oahe 140 for NNL of 2.9 for what they could do for FG 6007. They could not meet the required 6.7 NNL - reporting Larmie station has a control problem.	
316	1335	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY - Excluded WAUE NNL responsibility for this issue.	
317	1336	MRH	MISO-Jeff Advised WAUE will have a "0" NNL for next hour in regards to FG 6007.	
318	1429	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY - Excluded WAUE NNL responsibility for this issue.	
319	1436	MRH	MISO-Jeff Advised WAUE will have a "0" NNL for next hour in regards to FG 6007.	
320	1527	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY - Excluded WAUE NNL responsibility for this issue.	
321	1534	MRH	MISO-Jeff Advised WAUE will have a "0" NNL for next hour in regards to FG 6007.	
322	1625	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY - Excluded WAUE NNL responsibility for this issue.	
323	1634	MRH	MISO-Jeff Advised WAUE will have a "0" NNL for next hour in regards to FG 6007.	
324	1714	MRH	MISO-Jeff reports WAUE says Larimie river plant is now available to move and that we should include them in the NNL Repsonibility in regards to FG 6007.	
325	1726	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY - Excluded WAUE NNL responsibility for this issue.	
326	1727	MRH	MISO-Jeff Advised WAUE will have 4.7 NNL for next hour in regards to FG 6007.	
327	1825	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY Waue nnl= 4.1will raise Oahe 38mw @ -9.0 gsf and lower Laramie River @-19.0gsf 38mw =4.1 nnl	
328	1926	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY Waue nnl= 2.7will raise Oahe 25mw @ -9.0 gsf and lower Laramie River @-19.0gsf 25mw =2.7 nnl	
329	2025	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY Waue nnl= 2.8will raise Oahe 26mw @ -9.0 gsf and lower Laramie River @-19.0gsf 26mw =2.8 nnl	
330	2127	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY Waue nnl= 0	
331	2226	LRG	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - LOADING & FEASIBILITY Waue nnl= 4will raise Oahe 4mw @ -9.0 gsf and lower Laramie River @-19.0gsf 4mw =.4 nnl	
332	2319	LRG	Re-issued TLR Level 0 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
334				

6007 - 7/24/09 - 7/25/09

