

**SPP TLR 5 Investigation Report
Flowgate 6007
(Gentleman – Red Willow 345 kV)
(GENTLMREDWIL)
TLR Level 5: July 26-28, 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 26-28, 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 12:00 until 14:00 CST on July 26 and again from 15:00 until 15:50 on July 28, 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 440 MVA. Flow on the Limiting Element was 414 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 3-12.

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 one hour 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 13-14. 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 15.

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. It was only available for seven hours during 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 3-12. WAUE redispatched to provide relief for NNL responsibility during this 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	1	07/25/2009 22:35	07/25/2009 22:21	07/25/2009 22:21:18	0.0	0.0	0.0	0	0
SUPERSEDED	1	07/26/2009 04:20	07/26/2009 04:07	07/26/2009 04:06:49	0.0	0.0	0.0	0	0
SUPERSEDED	1	07/26/2009 06:40	07/26/2009 06:27	07/26/2009 06:26:47	0.0	0.0	0.0	0	0
SUPERSEDED	1	07/26/2009 10:40	07/26/2009 10:26	07/26/2009 10:26:42	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/26/2009 11:00	07/26/2009 10:37	07/26/2009 10:37:14	111.0	13.0	98.0	4	280
SUPERSEDED	3A	07/26/2009 12:00	07/26/2009 11:30	07/26/2009 11:30:04	100.0	69.3	30.7	3	270
SUPERSEDED	5A	07/26/2009 12:00	07/26/2009 11:40	07/26/2009 11:39:31	40.0	0.0	41.9	40	319
SUPERSEDED	5A	07/26/2009 13:00	07/26/2009 12:29	07/26/2009 12:27:35	0.0	0.0	22.4	2	170
SUPERSEDED	5A	07/26/2009 14:00	07/26/2009 13:26	07/26/2009 13:25:31	0.0	0.0	29.6	2	250
SUPERSEDED	3A	07/26/2009 14:00	07/26/2009 13:29	07/26/2009 13:29:18	52.0	22.4	29.6	2	250
SUPERSEDED	3A	07/26/2009 15:00	07/26/2009 14:29	07/26/2009 14:29:15	40.0	10.4	29.6	2	250
SUPERSEDED	3A	07/26/2009 16:00	07/26/2009 15:26	07/26/2009 15:26:15	45.0	14.8	30.2	1	150
SUPERSEDED	3A	07/26/2009 17:00	07/26/2009 16:27	07/26/2009 16:26:31	60.0	15.8	44.2	1	150
SUPERSEDED	3A	07/26/2009 18:00	07/26/2009 17:26	07/26/2009 17:25:42	28.0	0.0	28.0	1	150
SUPERSEDED	3A	07/26/2009 19:00	07/26/2009 18:25	07/26/2009 18:25:34	28.0	0.0	28.0	1	150
SUPERSEDED	3A	07/26/2009 20:00	07/26/2009 19:27	07/26/2009 19:26:47	37.0	0.0	37.0	2	206
SUPERSEDED	3A	07/26/2009 21:00	07/26/2009 20:26	07/26/2009 20:26:34	28.0	0.0	28.1	2	151
SUPERSEDED	3A	07/26/2009 22:00	07/26/2009 21:26	07/26/2009 21:26:28	18.0	0.0	18.0	2	127
SUPERSEDED	1	07/26/2009 22:30	07/26/2009 22:17	07/26/2009 22:17:20	0.0	0.0	0.0	0	0
SUPERSEDED	1	07/27/2009 04:15	07/27/2009 04:03	07/27/2009 04:03:01	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 07:00	07/27/2009 06:27	07/27/2009 06:27:16	20.0	0.0	20.3	4	118
SUPERSEDED	3B	07/27/2009 07:35	07/27/2009 07:22	07/27/2009 07:21:49	60.0	0.0	60.2	3	159
SUPERSEDED	3A	07/27/2009 09:00	07/27/2009 08:29	07/27/2009 08:28:06	30.0	0.0	30.2	5	122
SUPERSEDED	3A	07/27/2009 10:00	07/27/2009 09:27	07/27/2009 09:26:34	52.0	0.0	52.3	5	159
SUPERSEDED	3A	07/27/2009 11:00	07/27/2009 10:28	07/27/2009 10:28:21	24.0	0.0	24.0	1	100
SUPERSEDED	3A	07/27/2009 12:00	07/27/2009 11:28	07/27/2009 11:27:39	30.0	0.0	30.0	1	100
SUPERSEDED	3A	07/27/2009 13:00	07/27/2009 12:27	07/27/2009 12:27:17	54.0	0.0	54.2	5	151
SUPERSEDED	3A	07/27/2009 14:00	07/27/2009 13:27	07/27/2009 13:27:26	5.0	0.0	5.0	0	0
SUPERSEDED	3A	07/27/2009 15:00	07/27/2009 14:28	07/27/2009 14:27:35	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 16:00	07/27/2009 15:29	07/27/2009 15:27:21	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 17:00	07/27/2009 16:30	07/27/2009 16:29:47	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 18:00	07/27/2009 17:32	07/27/2009 17:32:31	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 19:00	07/27/2009 18:27	07/27/2009 18:27:20	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 20:00	07/27/2009 19:27	07/27/2009 19:27:00	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 21:00	07/27/2009 20:26	07/27/2009 20:26:01	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/27/2009 22:00	07/27/2009 21:32	07/27/2009 21:31:52	0.0	0.0	0.0	0	0

SUPERSEDED	3A	07/27/2009 23:00	07/27/2009 22:30	07/27/2009 22:30:10	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/28/2009 00:00	07/27/2009 23:27	07/27/2009 23:26:42	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/28/2009 01:00	07/28/2009 00:28	07/28/2009 00:28:12	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/28/2009 02:00	07/28/2009 01:27	07/28/2009 01:26:43	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/28/2009 03:00	07/28/2009 02:27	07/28/2009 02:27:20	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/28/2009 04:00	07/28/2009 03:27	07/28/2009 03:26:56	0.0	0.0	25.9	2	125
SUPERSEDED	3A	07/28/2009 05:00	07/28/2009 04:26	07/28/2009 04:26:37	0.0	0.0	0.0	0	0
SUPERSEDED	3B	07/28/2009 05:30	07/28/2009 05:21	07/28/2009 05:20:30	45.0	0.0	45.1	2	75
SUPERSEDED	3A	07/28/2009 07:00	07/28/2009 06:28	07/28/2009 06:27:31	69.0	3.7	65.3	1	100
SUPERSEDED	3A	07/28/2009 08:00	07/28/2009 07:30	07/28/2009 07:30:08	37.0	0.0	37.0	0	0
SUPERSEDED	3A	07/28/2009 09:00	07/28/2009 08:26	07/28/2009 08:26:13	12.0	0.0	12.0	0	0
SUPERSEDED	3A	07/28/2009 10:00	07/28/2009 09:27	07/28/2009 09:25:52	23.0	0.0	23.0	0	0
SUPERSEDED	3A	07/28/2009 11:00	07/28/2009 10:26	07/28/2009 10:25:51	17.0	0.0	17.0	0	0
SUPERSEDED	3A	07/28/2009 12:00	07/28/2009 11:26	07/28/2009 11:26:19	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/28/2009 13:00	07/28/2009 12:27	07/28/2009 12:26:51	25.0	0.0	25.0	1	10
SUPERSEDED	3A	07/28/2009 14:00	07/28/2009 13:28	07/28/2009 13:28:28	0.0	0.0	4.1	1	50
SUPERSEDED	5A	07/28/2009 15:00	07/28/2009 14:30	07/28/2009 14:29:48	0.0	0.0	28.4	2	150
SUPERSEDED	5A	07/28/2009 16:00	07/28/2009 15:28	07/28/2009 15:27:08	0.0	0.0	49.2	2	150
SUPERSEDED	1	07/28/2009 15:50	07/28/2009 15:36	07/28/2009 15:36:19	0.0	0.0	0.0	0	0
TERMINATED	0	07/28/2009 18:40	07/28/2009 18:27	07/28/2009 18:27:08	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_6007_20090725_2235.htm

Incident:	SWPP_6007_20090725_2235	Date: 07/25/2009	Reliability Coordinator: SWPP
Initial Conditions:	loading		
Flowgate:	6007 - GENTLMN3 345 REDWILO3 345 1	Rating: 1051	LODF: N/A
TLR Direction:	Normal		
Effective StartTime:	07/25/2009 22:35	Effective EndTime: 07/28/2009 18:40	TLR Duration: 68 Hours and 5 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								NNL Relief			Market Relief				Flow			TLR Action Comments
				Total Tags Cut / Hold	IDC Cut		RC Cut Acknowledge		Hold		CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow		
					MW	Relief	MW	Relief	MW	Relief												
Jul 25 22:21	TLR 1	CURRENT		NONE								NONE			NONE				419	N/A	N/A	N/A
Jul 26 04:07	TLR 1	CURRENT		NONE								NONE			NONE				502	N/A	N/A	N/A
Jul 26 06:27	TLR 1	CURRENT		NONE								NONE			NONE				516	N/A	N/A	N/A
Jul 26 10:26	TLR 1	CURRENT		NONE								NONE			NONE				502	N/A	N/A	N/A
Jul 26 10:37	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 3 / 0 4 / 0	150 130 280	21.4 10.6 32.0	150 130 280	21.4 10.6 32.0	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 7.0 0.0 44.0 0.0 15.0	0.0 7.0 0.0 44.0 0.0 15.0	494	N/A	N/A	N/A	
Jul 26 11:30	TLR 3A	NEXT	2-NH 6-NN Total	2 / 0 1 / 0 3 / 0	250 20 270	29.7 1.0 30.7	250 20 270	29.7 1.0 30.7	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 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	436	N/A	N/A	N/A	
Jul 26 11:40	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 37 / 0 39 / 0	150 20 49 219	21.4 1.0 5.1 27.5	150 20 49 219	21.4 1.0 5.1 27.5	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 MISO SWPP	0.0 0.0 0.0 0.1 5.3 0.0 0.0 5.5	0.0 0.0 0.0 0.1 5.3 0.0 0.0 5.4	414	N/A	N/A	N/A	
Jul 26 12:29	TLR 5A	NEXT	2-NH 6-NN Total	1 / 0 1 / 0 2 / 0	150 20 170	21.4 1.0 22.4	150 20 170	21.4 1.0 22.4	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 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 0.0	416	N/A	N/A	N/A	

Jul 26 13:26	TLR 5A	NEXT	2-NH Total	2 / 0 2 / 0	250 250	29.6 29.6	250 250	29.6 29.6	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 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 0.0	400	N/A	N/A	N/A
Jul 26 13:29	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	250 250	29.6 29.6	250 250	29.6 29.6	0 0	0.0 0.0	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	396	N/A	N/A	N/A
Jul 26 14:29	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	250 250	29.6 29.6	250 250	29.6 29.6	0 0	0.0 0.0	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	399	N/A	N/A	N/A
Jul 26 15:26	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	150 150	21.2 21.2	150 150	21.2 21.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 9.0	0.0 0.0 0.0 0.0 0.0 9.0	403	N/A	N/A	N/A
Jul 26 16:27	TLR 3A	NEXT	2-NH 7-F Total	1 / 0 0 / 1 1 / 1	150 0 150	21.2 0.0 21.2	150 0 150	21.2 0.0 21.2	0 0 98	0.0 8.1 6.1	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 18.0 0.0 5.0	0.0 0.0 0.0 18.0 0.0 5.0	407	N/A	N/A	N/A
Jul 26 17:26	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	150 150	21.2 21.2	150 150	21.2 21.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 6.8 0.0 0.0	0.0 0.0 0.0 6.8 0.0 0.0	410	N/A	N/A	N/A
Jul 26 18:25	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	150 150	21.2 21.2	150 150	21.2 21.2	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 6.8 0.0 0.0 0.0 0.0	0.0 6.8 0.0 0.0 0.0 0.0	420	N/A	N/A	N/A
Jul 26 19:27	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 1 / 0 2 / 0	150 66 206	21.3 3.9 25.2	150 66 206	21.3 3.9 25.2	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 10.0 0.0 1.8 0.0 0.0	0.0 10.0 0.0 1.8 0.0 0.0	420	N/A	N/A	N/A

Jul 26 20:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	151 151	19.1 19.1	151 151	19.1 19.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 9.0 0.0 0.0 0.0 0.0	0.0 9.0 0.0 0.0	411	N/A	N/A	N/A
Jul 26 21:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	127 127	17.0 17.0	127 127	17.0 17.0	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 1.0 0.0 0.0 0.0 0.0	0.0 1.0 0.0 0.0	398	N/A	N/A	N/A
Jul 26 22:17	TLR 1	CURRENT	NONE								NONE	NONE				388	N/A	N/A	N/A
Jul 27 04:03	TLR 1	CURRENT	NONE								NONE	NONE				495	N/A	N/A	N/A
Jul 27 06:27	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 3 / 0 4 / 0	100 18 118	8.1 2.8 10.9	100 18 118	8.1 2.8 10.9	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 8.0 0.0 1.4 0.0 0.0	0.0 8.0 0.0 1.4 0.0 0.0	458	N/A	N/A	N/A
Jul 27 07:22	TLR 3B	CURRENT	6-NN Total	3 / 0 3 / 0	159 341	23.8 23.8	159 159	23.8 23.8	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 12.0 3.1 25.5 0.0 0.0	0.0 12.0 3.1 25.5 0.0 0.0	419	N/A	N/A	N/A
		NEXT	2-NH 6-NN Total	1 / 0 4 / 0 5 / 0	100 300 341	8.1 36.2 44.3	100 300 400	8.1 36.2 44.3	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 38.0 0.0 0.0	0.0 12.0 0.0 38.0 0.0 0.0				
Jul 27 08:29	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 4 / 0 5 / 0	100 22 122	8.1 3.1 11.2	100 22 122	8.1 3.1 11.2	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 12.0 0.0 7.0 0.0 0.0	0.0 12.0 0.0 7.0 0.0 0.0	409	N/A	N/A	N/A
Jul 27 09:27	TLR 3A	NEXT	2-NH 6-NN 7-F Total	1 / 0 4 / 0 0 / 2 5 / 2	100 59 0 159	8.1 8.2 0.0 16.3	100 59 0 159	8.1 8.2 0.0 16.3	0 0 56 56	0.0 0.0 2.8 2.8	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 12.0 0.0 21.0 0.0 3.0	0.0 12.0 0.0 21.0 0.0 3.0	437	N/A	N/A	N/A
Jul 27 10:28	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	100 100	8.1 8.1	100 100	8.1 8.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 3.0 0.0 12.9	0.0 0.0 0.0 3.0 0.0 12.9	410	N/A	N/A	N/A

Jul 27 11:28	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	100 100	8.1 8.1	100 100	8.1 8.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 8.0 0.0 10.0 0.0 3.9 21.9	0.0 8.0 0.0 10.0 0.0 3.9 21.9	400	N/A	N/A	N/A
Jul 27 12:27	TLR 3A	NEXT	2-NH 6-NN Total	1 / 0 4 / 0 5 / 0	100 51 151	8.1 7.1 15.2	100 51 151	8.1 7.1 15.2	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	11.0 20.0 8.0 39.0	11.0 20.0 8.0 39.0	411	N/A	N/A	N/A
Jul 27 13:27	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 5.0 0.0 0.0 0.0 0.0 5.0	0.0 5.0 0.0 0.0 0.0 0.0 5.0	393	N/A	N/A	N/A
Jul 27 14:28	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	380	N/A	N/A	N/A
Jul 27 15:29	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	407	N/A	N/A	N/A
Jul 27 16:30	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 0.0 0.0	391	N/A	N/A	N/A
Jul 27 17:32	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	396	N/A	N/A	N/A
Jul 27 18:27	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	418	N/A	N/A	N/A
Jul 27 19:27	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	417	N/A	N/A	N/A

Jul 27 20:28	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	393	N/A	N/A	N/A
Jul 27 21:32	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	412	N/A	N/A	N/A
Jul 27 22:30	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	400	N/A	N/A	N/A
Jul 27 23:27	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	405	N/A	N/A	N/A
Jul 28 00:28	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	400	N/A	N/A	N/A
Jul 28 01:27	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	410	N/A	N/A	N/A
Jul 28 02:27	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	407	N/A	N/A	N/A
Jul 28 03:27	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	400	N/A	N/A	N/A

Jul 28 04:28	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	384	N/A	N/A	N/A
											ED-6	SWPP	0.0	0.0					
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
Jul 28 05:21	TLR 3B	CURRENT	2-NH	1 / 0	21	1.7	21	1.7	0	0.0	NONE	ED-2	MISO	0.0	0.0	440	N/A	N/A	N/A
				6-NN	1 / 0	54	13.1	54	13.1	0	0.0		SWPP	11.0	11.0				
			Total	2 / 0	173	14.8	75	14.8	0	0.0		ED-6	MISO	3.1	3.1				
											FIRM-7	SWPP	17.8	17.8					
											Total	MISO	0.0	0.0					
												SWPP	0.0	0.0					
											Total	31.9	31.9						
		NEXT	6-NN	1 / 0	98	23.8	98	23.8	0	0.0	NONE	ED-2	MISO	0.0	0.0				
			Total	1 / 0	173	23.8	98	23.8	0	0.0		ED-6	SWPP	11.0	11.0				
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	35.2	35.2					
												MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
												46.2	46.2						
Jul 28 06:28	TLR 3A	NEXT	6-NN	1 / 0	100	24.3	100	24.3	0	0.0	NONE	ED-2	MISO	0.0	0.0	411	N/A	N/A	N/A
			Total	1 / 0	100	24.3	100	24.3	0	0.0		ED-6	SWPP	12.0	12.0				
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	29.0	29.0					
												MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
												41.0	41.0						
Jul 28 07:30	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	375	N/A	N/A	N/A
											ED-6	SWPP	11.0	11.0					
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	26.0	26.0					
												MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
												37.0	37.0						
Jul 28 08:28	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	436	N/A	N/A	N/A
											ED-6	SWPP	11.0	11.0					
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	1.0	1.0					
												MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
												12.0	12.0						
Jul 28 09:27	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	410	N/A	N/A	N/A
											ED-6	SWPP	11.0	11.0					
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	12.0	12.0					
												MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
												23.0	23.0						
Jul 28 10:28	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	424	N/A	N/A	N/A
											ED-6	SWPP	11.0	11.0					
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	6.0	6.0					
												MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
												17.0	17.0						

Jul 28 11:28	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	425	N/A	N/A	N/A
											ED-6	SWPP	0.0	0.0					
											FIRM-7	MISO	0.0	0.0					
											Total	SWPP	0.0	0.0					
													0.0	0.0					
Jul 28 12:27	TLR 3A	NEXT	6-NN	1 / 0	10	1.5	10	1.5	0	0.0	NONE	ED-2	MISO	0.0	0.0	392	N/A	N/A	N/A
			Total	1 / 0	10	1.5	10	1.5	0	0.0		ED-6	SWPP	10.0	10.0				
												FIRM-7	MISO	0.0	0.0				
													SWPP	13.5	13.5				
												Total	MISO	0.0	0.0				
													SWPP	0.0	0.0				
														0.0	0.0				
Jul 28 13:28	TLR 3A	NEXT	7-F	0 / 1	0	0.0	0	0.0	20	1.1	NONE	ED-2	MISO	0.0	0.0	417	N/A	N/A	N/A
			Total	0 / 1	0	0.0	0	0.0	20	1.1		ED-6	SWPP	0.0	0.0				
												FIRM-7	MISO	0.0	0.0				
													SWPP	0.0	0.0				
												Total	MISO	0.0	0.0				
													SWPP	0.0	0.0				
														0.0	0.0				
Jul 28 14:30	TLR 5A	NEXT	8-NN	1 / 0	100	24.3	100	24.3	0	0.0	NONE	ED-2	MISO	0.0	0.0	401	N/A	N/A	N/A
			Total	1 / 0	100	24.3	100	24.3	0	0.0		ED-6	SWPP	0.0	0.0				
												FIRM-7	MISO	0.0	0.0				
													SWPP	0.0	0.0				
												FIRM-CREDIT	MISO	0.0	0.0				
													SWPP	0.0	0.0				
												Total		0.0	0.0				
Jul 28 15:28	TLR 5A	NEXT	2-NH	1 / 1	50	4.0	50	4.0	10	1.1	NONE	ED-2	MISO	0.0	0.0	355	N/A	N/A	N/A
			6-NN	1 / 0	100	24.2	100	24.2	0	0.0		ED-6	SWPP	10.0	10.0				
			Total	2 / 1	150	28.2	150	28.2	10	1.1		FIRM-7	MISO	0.0	0.0				
													SWPP	11.0	11.0				
												FIRM-CREDIT	MISO	0.0	0.0				
													SWPP	0.0	0.0				
												Total		21.0	21.0				
Jul 28 15:38	TLR 1	CURRENT	NONE								NONE	NONE				352	N/A	N/A	N/A
Jul 28 18:27	TLR 0	CURRENT	NONE								NONE	NONE				405	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	29	3249	3249	10
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	35	1317	1317	0
7	37	49	49	174
Total	101	4615	4615	184

TLR NNL Totals

CA	NNL Relief	
	IDC MVV	RC Ackn MVV
WAUE	1.0	1.0
Total	1.0	1.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MVV	RC Ackn MVV
MISO	ED-2	0.0	0.0
	ED-8	6.2	6.2
	FIRM-7	0.1	0.1
Total MISO		6.3	6.3
SWPP	ED-2	188.8	188.8
	ED-8	274.8	274.8
	FIRM-7	62.1	62.1
Total for SWPP		525.7	525.7
Total		532.0	532.0

	A	B	C	D
340	Reliability Log for July, 26			2009
341	Time	Initials	Comments	
342	0506	LRG	Re-issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
343	0726	MRH	Re-issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
344	1126	MRH	Re-issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
345	1132	MRH	NPPD per local area OPS - is requested a TLR Level 3A on Gentlmn3 345 REDWILO3 345 1 Flgt. 6007 to control loading so they could open PCB 1110 at ReWilo.	
346	1137	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
347	1230	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
348	1233		NPPD per local area OPS - is requested a TLR Level 5A on Gentlmn3 345 REDWILO3 345 1 Flgt. 6007 to control loading so they could close PCB 1110 at ReWilo. Explained to NPPD that with GENTLEMAN Units in SelfScheduled in the market we have cut all the Non-firm off the FG and will have to go to a TLR Level 5 to get the firm off the FG. NPPD concurred they need to get the loading down to closed at RedWilo PCB 1110.	
349	1239	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 - - LOADING	
350	1247	MRH	MISO Jeff reports WAUE Dec Larime 5 Mw and Rasing Oahe 5 Mws = 1.7 NNL - they were required .6 or 2 Mws, they will get a credit the following hour. This in regarding FG 6007	
351	1327	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 LOADING - WAUE credit NNL for next hour.	
352	1429	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
353	1529	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
354	1626	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
355	1726	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
356	1825	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
357	1925	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
358	2026	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
359	2126	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
360	2226	LRG	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
361	2317	LRG	Re-issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
362				
	A	B	C	D
364	Reliability Log for July, 27			2009
365	Time	Initials	Comments	
366	0503	LRG	Re-issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
367	0727	LWB	Issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
368	0821	LWB	Issued TLR Level 3B on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
369	0928	LWB	Issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
370	1026	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
371	1128	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
372	1228	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
373	1327	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
374	1427	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
375	1527	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
376	1627	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
377	1729	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
378	1832	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
379	1927	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
380	2027	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
381	2126	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
382	2231	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
383	2230	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
384				

	A	B	C	D
386	Reliability Log for July, 28			2009
387	Time	Initials	Comments	
388	0026	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
389	0128	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
390	0226	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
391	0327	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
392	0426	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
393	0526	AH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
394	0620	LWB	Issued TLR Level 3B on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
395	0727	LWB	Issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
396	0830	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
397	0926	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
398	1025	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
399	1126	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
400	1226	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
401	1326	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
402	1431	LWB	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
403	1529	LWB	Issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
404	1627	LWB	Issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
405	1636	LWB	Issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007, Redwillo 1110 is closed	
406	1927	AH	Issued TLR Level 0 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
407	2018	AH	Issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007,	
408				

6007 - 7/26/09 - 7/28/09

