

**SPP TLR 5 Investigation Report  
Flowgate 6007  
(Gentleman – Red Willow 345 kV)  
(GENTLMREDWIL)  
TLR Level 5: July 14-16, 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 14-16, 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 11:00 until 22:00 CST on July 14 and again from 7:00 on July 15 until 1:20 on July 16, 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 410 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 3-11.

**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 six 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 page 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. It was only available for two 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 3-11. 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
<a href="#">SUPERSEDED</a>	3B	07/14/2009 06:30	07/14/2009 06:17	07/14/2009 06:16:36	75.0	28.8	46.2	7	357
<a href="#">SUPERSEDED</a>	3A	07/14/2009 08:00	07/14/2009 07:26	07/14/2009 07:25:54	30.0	0.0	30.3	8	274
<a href="#">SUPERSEDED</a>	3A	07/14/2009 09:00	07/14/2009 08:30	07/14/2009 08:30:01	105.0	50.2	54.8	8	500
<a href="#">SUPERSEDED</a>	3A	07/14/2009 10:00	07/14/2009 09:28	07/14/2009 09:27:56	134.0	77.3	56.7	8	500
<a href="#">SUPERSEDED</a>	5A	07/14/2009 11:00	07/14/2009 10:31	07/14/2009 10:30:27	0.0	0.0	55.3	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 12:00	07/14/2009 11:34	07/14/2009 11:33:48	52.0	0.0	55.1	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 13:00	07/14/2009 12:29	07/14/2009 12:29:12	30.0	0.0	55.1	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 14:00	07/14/2009 13:34	07/14/2009 13:33:57	45.0	0.0	55.1	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 15:00	07/14/2009 14:35	07/14/2009 14:34:56	10.0	0.0	55.1	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 16:00	07/14/2009 15:32	07/14/2009 15:31:33	27.0	0.0	55.1	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 17:00	07/14/2009 16:30	07/14/2009 16:29:30	18.0	0.0	55.1	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 18:00	07/14/2009 17:34	07/14/2009 17:33:49	0.0	0.0	55.1	9	508
<a href="#">SUPERSEDED</a>	5A	07/14/2009 19:00	07/14/2009 18:36	07/14/2009 18:36:05	0.0	0.0	54.6	8	500
<a href="#">SUPERSEDED</a>	5A	07/14/2009 20:00	07/14/2009 19:29	07/14/2009 19:29:34	0.0	0.0	54.5	8	500
<a href="#">SUPERSEDED</a>	5A	07/14/2009 21:00	07/14/2009 20:32	07/14/2009 20:31:41	0.0	0.0	63.2	4	250
<a href="#">SUPERSEDED</a>	3A	07/14/2009 22:00	07/14/2009 21:29	07/14/2009 21:28:55	77.0	0.0	77.1	5	350
<a href="#">SUPERSEDED</a>	3A	07/14/2009 23:00	07/14/2009 22:26	07/14/2009 22:26:28	140.0	60.2	79.8	5	300
<a href="#">SUPERSEDED</a>	1	07/15/2009 00:00	07/14/2009 23:26	07/14/2009 23:25:53	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	1	07/15/2009 05:40	07/15/2009 05:28	07/15/2009 05:27:46	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/15/2009 07:00	07/15/2009 06:37	07/15/2009 06:37:14	109.0	0.0	126.3	9	454
<a href="#">SUPERSEDED</a>	5A	07/15/2009 08:00	07/15/2009 07:33	07/15/2009 07:33:00	29.0	0.0	56.0	8	450
<a href="#">SUPERSEDED</a>	5A	07/15/2009 09:00	07/15/2009 08:32	07/15/2009 08:31:54	73.0	0.0	75.1	55	543
<a href="#">SUPERSEDED</a>	5A	07/15/2009 09:00	07/15/2009 08:39	07/15/2009 08:38:18	72.0	0.0	74.7	53	529
<a href="#">SUPERSEDED</a>	5A	07/15/2009 10:00	07/15/2009 09:30	07/15/2009 09:28:29	19.0	0.0	45.7	7	322
<a href="#">SUPERSEDED</a>	5A	07/15/2009 11:00	07/15/2009 10:28	07/15/2009 10:27:15	62.0	0.0	63.8	49	470
<a href="#">SUPERSEDED</a>	5A	07/15/2009 12:00	07/15/2009 11:28	07/15/2009 11:26:28	0.0	0.0	53.7	8	420
<a href="#">SUPERSEDED</a>	5A	07/15/2009 13:00	07/15/2009 12:32	07/15/2009 12:30:41	60.0	0.0	61.5	43	459
<a href="#">SUPERSEDED</a>	5A	07/15/2009 14:00	07/15/2009 13:29	07/15/2009 13:28:01	16.0	0.0	53.6	8	419
<a href="#">SUPERSEDED</a>	5A	07/15/2009 15:00	07/15/2009 14:31	07/15/2009 14:29:59	65.0	0.0	67.4	56	486
<a href="#">SUPERSEDED</a>	5A	07/15/2009 16:00	07/15/2009 15:34	07/15/2009 15:34:20	37.0	0.0	52.5	8	405
<a href="#">SUPERSEDED</a>	5A	07/15/2009 17:00	07/15/2009 16:34	07/15/2009 16:33:31	58.0	0.0	59.4	40	438
<a href="#">SUPERSEDED</a>	5A	07/15/2009 18:00	07/15/2009 17:36	07/15/2009 17:32:26	55.0	0.0	56.4	33	426
<a href="#">SUPERSEDED</a>	5A	07/15/2009 19:00	07/15/2009 18:32	07/15/2009 18:30:13	36.0	0.0	51.8	8	400
<a href="#">SUPERSEDED</a>	5A	07/15/2009 20:00	07/15/2009 19:32	07/15/2009 19:31:59	0.0	0.0	51.7	8	400
<a href="#">SUPERSEDED</a>	5A	07/15/2009 21:00	07/15/2009 20:28	07/15/2009 20:28:09	0.0	0.0	53.8	5	300
<a href="#">SUPERSEDED</a>	5A	07/15/2009 22:00	07/15/2009 21:29	07/15/2009 21:29:00	0.0	0.0	47.8	5	300
<a href="#">SUPERSEDED</a>	5A	07/15/2009 23:00	07/15/2009 22:30	07/15/2009 22:29:24	0.0	0.0	43.2	4	220
<a href="#">SUPERSEDED</a>	5A	07/16/2009 00:00	07/15/2009 23:29	07/15/2009 23:28:16	0.0	0.0	43.2	4	220
<a href="#">SUPERSEDED</a>	5A	07/16/2009 01:00	07/16/2009 00:30	07/16/2009 00:30:09	0.0	0.0	55.7	5	370
<a href="#">TERMINATED</a>	0	07/16/2009 01:20	07/16/2009 01:08	07/16/2009 01:07:38	0.0	0.0	0.0	0	0

## Event Summary

FILE SAVED AS: SWPP\_6007\_20090714\_0630.htm

Incident:	SWPP_6007_20090714_0630	Date: 07/14/2009	Reliability Coordinator: SWPP
Initial Conditions:	Increasing Flows		
Flowgate:	6007 - GENTLMN3 345 REDWILO3 345 1	Rating: 485	LODF: N/A
TLR Direction:	Normal		
Effective StartTime:	07/14/2009 06:30	Effective EndTime: 07/16/2009 01:20	TLR Duration: 42 Hours and 50 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 14 06:17	TLR 3B	CURRENT	2-NH	2 / 0	57	4.6	57	4.6	0	0.0	NONE	ED-2	MISO	0.0	0.0	446	N/A	N/A	N/A			
			6-NN	5 / 0	300	38.6	300	38.6	0	0.0			MISO	3.0	3.0							
			<b>Total</b>	<b>7 / 0</b>	<b>714</b>	<b>43.2</b>	<b>357</b>	<b>43.2</b>	<b>0</b>	<b>0.0</b>	<b>Total</b>			<b>3.0</b>	<b>3.0</b>							
		NEXT	2-NH	3 / 0	200	16.1	200	16.1	0	0.0	NONE	ED-2	MISO	0.0	0.0							
			6-NN	5 / 0	300	38.6	300	38.6	0	0.0			MISO	12.0	12.0							
			<b>Total</b>	<b>8 / 0</b>	<b>714</b>	<b>54.8</b>	<b>500</b>	<b>54.8</b>	<b>0</b>	<b>0.0</b>	<b>Total</b>			<b>12.0</b>	<b>12.0</b>							
Jul 14 07:28	TLR 3A	NEXT	2-NH	3 / 0	200	16.1	200	16.1	0	0.0	NONE	ED-2	MISO	0.0	0.0	414	N/A	N/A	N/A			
			6-NN	5 / 0	74	11.2	74	11.2	0	0.0			MISO	3.0	3.0							
			<b>Total</b>	<b>8 / 0</b>	<b>274</b>	<b>27.3</b>	<b>274</b>	<b>27.3</b>	<b>0</b>	<b>0.0</b>	<b>Total</b>			<b>3.0</b>	<b>3.0</b>							
Jul 14 08:30	TLR 3A	NEXT	2-NH	3 / 0	200	16.1	200	16.1	0	0.0	NONE	ED-2	MISO	0.0	0.0	388	N/A	N/A	N/A			
			6-NN	5 / 0	300	38.6	300	38.6	0	0.0			MISO	0.0	0.0							
			<b>Total</b>	<b>8 / 0</b>	<b>500</b>	<b>54.8</b>	<b>500</b>	<b>54.8</b>	<b>0</b>	<b>0.0</b>	<b>Total</b>			<b>0.0</b>	<b>0.0</b>							
Jul 14 09:28	TLR 3A	NEXT	2-NH	3 / 0	200	16.1	200	16.1	0	0.0	NONE	ED-2	MISO	0.0	0.0	398	N/A	N/A	N/A			
			6-NN	5 / 0	300	38.7	300	38.7	0	0.0			MISO	2.0	2.0							
			<b>Total</b>	<b>8 / 0</b>	<b>500</b>	<b>54.7</b>	<b>500</b>	<b>54.7</b>	<b>0</b>	<b>0.0</b>	<b>Total</b>			<b>2.0</b>	<b>2.0</b>							

Jul 14 10:31	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	4 / 0 5 / 0 <b>9 / 0</b>	208 300 <b>508</b>	16.6 38.7 <b>55.3</b>	208 300 <b>508</b>	16.6 38.7 <b>55.3</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	410	N/A	N/A	N/A
Jul 14 11:34	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 5 / 0 <b>6 / 0</b>	8 300 <b>308</b>	0.4 38.6 <b>39.1</b>	8 300 <b>308</b>	0.4 38.6 <b>39.1</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	429	N/A	N/A	N/A
Jul 14 12:29	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	4 / 0 5 / 0 <b>9 / 0</b>	208 300 <b>508</b>	16.5 38.6 <b>55.1</b>	208 300 <b>508</b>	16.5 38.6 <b>55.1</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	405	N/A	N/A	N/A
Jul 14 13:34	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 5 / 0 <b>6 / 0</b>	8 300 <b>308</b>	0.4 38.6 <b>39.0</b>	8 300 <b>308</b>	0.4 38.6 <b>39.0</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	429	N/A	N/A	N/A
Jul 14 14:35	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 5 / 0 <b>6 / 0</b>	8 300 <b>308</b>	0.4 38.6 <b>39.0</b>	8 300 <b>308</b>	0.4 38.6 <b>39.0</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	371	N/A	N/A	N/A
Jul 14 15:32	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	3 / 0 5 / 0 <b>8 / 0</b>	200 300 <b>500</b>	16.1 38.6 <b>54.7</b>	200 300 <b>500</b>	16.1 38.6 <b>54.7</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	381	N/A	N/A	N/A

Jul 14 18:30	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	4 / 0 5 / 0 0 / 1 <b>9 / 1</b>	208 300 0 <b>508</b>	16.5 38.6 0.0 <b>55.1</b>	208 300 0 <b>508</b>	16.5 38.6 0.0 <b>55.1</b>	0 0 1 <b>1</b>	0.0 0.0 0.1 <b>0.1</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	396	N/A	N/A	N/A
Jul 14 17:34	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	4 / 0 5 / 0 <b>9 / 0</b>	208 300 <b>508</b>	16.5 38.6 <b>55.1</b>	208 300 <b>508</b>	16.5 38.6 <b>55.1</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	402	N/A	N/A	N/A
Jul 14 18:36	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	3 / 0 5 / 0 <b>8 / 0</b>	200 300 <b>500</b>	16.1 38.6 <b>54.6</b>	200 300 <b>500</b>	16.1 38.6 <b>54.6</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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 14 19:29	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	3 / 0 5 / 0 <b>8 / 0</b>	200 300 <b>500</b>	15.9 38.6 <b>54.5</b>	200 300 <b>500</b>	15.9 38.6 <b>54.5</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	397	N/A	N/A	N/A
Jul 14 20:32	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	0 / 1 4 / 0 <b>4 / 1</b>	0 250 <b>250</b>	0.0 35.2 <b>35.2</b>	0 250 <b>250</b>	0.0 35.2 <b>35.2</b>	100 0 <b>100</b>	7.9 0.0 <b>7.9</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 11.0 0.0 17.0 0.0 0.0 0.0 0.0	0.0 11.0 0.0 17.0 0.0 0.0 0.0 0.0	387	N/A	N/A	N/A
Jul 14 21:29	TLR 3A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 4 / 0 <b>5 / 0</b>	100 250 <b>350</b>	7.9 35.2 <b>43.1</b>	100 250 <b>350</b>	7.9 35.2 <b>43.1</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 10.0 0.0 24.0 0.0 0.0	0.0 10.0 0.0 24.0 0.0 0.0	402	N/A	N/A	N/A
Jul 14 22:26	TLR 3A	NEXT	6-NN 7-F <b>Total</b>	5 / 0 0 / 1 <b>5 / 1</b>	300 0 <b>300</b>	50.8 0.0 <b>50.8</b>	300 0 <b>300</b>	50.8 0.0 <b>50.8</b>	0 2 <b>2</b>	0.0 0.2 <b>0.2</b>	NONE	ED-2 ED-6 FIRM-7 <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 29.0 0.0 0.0 0.0 0.0	0.0 29.0 0.0 0.0 0.0 0.0	398	N/A	N/A	N/A
Jul 14 23:28	TLR 1	CURRENT	NONE								NONE	NONE				409	N/A	N/A	N/A

Jul 15 05:28	TLR 1	CURRENT	NONE								NONE			NONE				456	N/A	N/A	N/A
Jul 15 06:37	TLR 5A	NEXT	6-NN <b>Total</b>	2 / 0 <b>2 / 0</b>	150 <b>150</b>	17.4 <b>17.4</b>	150 <b>150</b>	17.4 <b>17.4</b>	0 <b>0</b>	0.0 <b>0.0</b>	NONE			ED-2	MISO SWPP	0.0 9.0	0.0 9.0	519	N/A	N/A	N/A
													ED-6	MISO SWPP	0.0 61.0	0.0 61.0					
													FIRM-7	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-CREDIT	MISO SWPP	0.0 0.0	0.0 0.0					
													<b>Total</b>		<b>70.0</b>	<b>70.0</b>					
Jul 15 07:33	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	2 / 0 6 / 0 <b>8 / 0</b>	150 300 <b>450</b>	12.0 44.0 <b>56.0</b>	150 300 <b>450</b>	12.0 44.0 <b>56.0</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE			ED-2	MISO SWPP	0.0 0.0	0.0 0.0	411	N/A	N/A	N/A
													ED-6	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-7	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-CREDIT	MISO SWPP	0.0 0.0	0.0 0.0					
													<b>Total</b>		<b>0.0</b>	<b>0.0</b>					
Jul 15 08:32	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	3 / 0 6 / 0 46 / 0 <b>55 / 0</b>	181 300 82 <b>543</b>	12.9 44.0 7.0 <b>64.0</b>	181 300 82 <b>543</b>	12.9 44.0 7.0 <b>64.0</b>	0 0 0 <b>0</b>	0.0 0.0 0.0 <b>0.0</b>	WAUE <b>Total</b>	1.0 <b>1.0</b>	1.0 <b>1.0</b>	ED-2	MISO SWPP	0.0 9.6	0.0 9.6	380	N/A	N/A	N/A
													ED-6	MISO SWPP	0.7 0.0	0.7 0.0					
													FIRM-7	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-CREDIT	MISO SWPP	0.0 0.0	0.0 0.0					
													<b>Total</b>		<b>10.3</b>	<b>10.3</b>					
Jul 15 08:39	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	3 / 0 6 / 0 44 / 0 <b>53 / 0</b>	181 300 68 <b>529</b>	12.9 44.0 5.6 <b>62.5</b>	181 300 68 <b>529</b>	12.9 44.0 5.6 <b>62.5</b>	0 0 0 <b>0</b>	0.0 0.0 0.0 <b>0.0</b>	WAUE <b>Total</b>	1.0 <b>1.0</b>	1.0 <b>1.0</b>	ED-2	MISO SWPP	0.0 10.4	0.0 10.4	379	N/A	N/A	N/A
													ED-6	MISO SWPP	0.8 0.0	0.8 0.0					
													FIRM-7	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-CREDIT	MISO SWPP	0.0 0.0	0.0 0.0					
													<b>Total</b>		<b>11.2</b>	<b>11.2</b>					
Jul 15 09:30	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 1 6 / 0 <b>7 / 1</b>	22 300 <b>322</b>	1.8 44.0 <b>45.7</b>	22 300 <b>322</b>	1.8 44.0 <b>45.7</b>	100 0 <b>100</b>	8.0 0.0 <b>8.0</b>	NONE			ED-2	MISO SWPP	0.0 0.0	0.0 0.0	388	N/A	N/A	N/A
													ED-6	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-7	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-CREDIT	MISO SWPP	0.0 0.0	0.0 0.0					
													<b>Total</b>		<b>0.0</b>	<b>0.0</b>					
Jul 15 10:28	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	2 / 0 6 / 0 41 / 0 <b>49 / 0</b>	121 300 49 <b>470</b>	9.7 44.0 3.9 <b>57.7</b>	121 300 49 <b>470</b>	9.7 44.0 3.9 <b>57.7</b>	0 0 0 <b>0</b>	0.0 0.0 0.0 <b>0.0</b>	WAUE <b>Total</b>	0.0 <b>0.0</b>	1.0 <b>1.0</b>	ED-2	MISO SWPP	0.0 5.2	0.0 5.2	407	N/A	N/A	N/A
													ED-6	MISO SWPP	0.4 0.0	0.4 0.0					
													FIRM-7	MISO SWPP	0.0 0.0	0.0 0.0					
													FIRM-CREDIT	MISO SWPP	0.0 0.0	0.0 0.0					
													<b>Total</b>		<b>5.6</b>	<b>5.6</b>					

Jul 15 11:28	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	2 / 0 6 / 0 <b>8 / 0</b>	120 300 <b>420</b>	9.7 44.0 <b>53.7</b>	120 300 <b>420</b>	9.7 44.0 <b>53.7</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE			ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	409	N/A	N/A	N/A
Jul 15 12:32	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	2 / 0 6 / 0 35 / 0 <b>43 / 0</b>	119 300 40 <b>459</b>	9.6 44.0 3.1 <b>56.7</b>	119 300 40 <b>459</b>	9.6 44.0 3.1 <b>56.7</b>	0 0 0 <b>0</b>	0.0 0.0 0.0 <b>0.0</b>	NONE			ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP MISO SWPP	0.0 4.1 0.3 0.0 0.0 0.0 0.0 0.0	0.0 4.1 0.3 0.0 0.0 0.0 0.0 0.0	386	N/A	N/A	N/A
Jul 15 13:29	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	2 / 0 6 / 0 <b>8 / 0</b>	119 300 <b>419</b>	9.6 44.0 <b>53.6</b>	119 300 <b>419</b>	9.6 44.0 <b>53.6</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE			ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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 15 14:31	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	2 / 0 6 / 0 48 / 0 <b>56 / 0</b>	119 300 67 <b>486</b>	9.6 44.0 5.3 <b>58.9</b>	119 300 67 <b>486</b>	9.6 44.0 5.3 <b>58.9</b>	0 0 0 <b>0</b>	0.0 0.0 0.0 <b>0.0</b>	WAUE <b>Total</b>	1.0 <b>1.0</b>	1.0 <b>1.0</b>	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 7.3 0.5 0.0 0.0 0.0 0.0	0.0 7.3 0.5 0.0 0.0 0.0 0.0	391	N/A	N/A	N/A
Jul 15 15:34	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	2 / 0 6 / 0 <b>8 / 0</b>	105 300 <b>405</b>	8.5 44.0 <b>52.5</b>	105 300 <b>405</b>	8.5 44.0 <b>52.5</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE			ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	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	413	N/A	N/A	N/A
Jul 15 16:34	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	1 / 0 6 / 0 33 / 1 <b>40 / 1</b>	100 300 38 <b>438</b>	8.0 43.9 3.0 <b>54.9</b>	100 300 38 <b>438</b>	8.0 43.9 3.0 <b>54.9</b>	0 0 12 <b>12</b>	0.0 0.0 0.6 <b>0.6</b>	NONE			ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 3.9 0.3 0.0 0.0 0.0 0.0	0.0 3.9 0.3 0.0 0.0 0.0 0.0	376	N/A	N/A	N/A

Jul 15 17:36	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	1 / 0 6 / 0 26 / 0 <b>33 / 0</b>	100 300 26 <b>426</b>	8.0 44.0 1.9 <b>53.9</b>	100 300 28 <b>426</b>	8.0 44.0 1.9 <b>53.9</b>	0 0 0 <b>0</b>	0.0 0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP MISO SWPP	0.0 2.1 0.2 0.0 0.0 0.0 0.0 0.0 <b>2.3</b>	0.0 2.1 0.2 0.0 0.0 0.0 0.0 0.0 <b>2.3</b>	357	N/A	N/A	N/A
Jul 15 18:32	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 7 / 0 <b>8 / 0</b>	100 300 <b>400</b>	8.1 43.7 <b>51.8</b>	100 300 <b>400</b>	8.1 43.7 <b>51.8</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	372	N/A	N/A	N/A
Jul 15 19:32	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 7 / 0 <b>8 / 0</b>	100 300 <b>400</b>	8.0 43.7 <b>51.7</b>	100 300 <b>400</b>	8.0 43.7 <b>51.7</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	350	N/A	N/A	N/A
Jul 15 20:28	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 4 / 0 <b>5 / 0</b>	100 200 <b>300</b>	7.9 39.9 <b>47.8</b>	100 200 <b>300</b>	7.9 39.9 <b>47.8</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 8.0 0.0 0.0 0.0 0.0 <b>6.0</b>	0.0 8.0 0.0 0.0 0.0 0.0 <b>6.0</b>	371	N/A	N/A	N/A
Jul 15 21:29	TLR 5A	NEXT	2-NH 6-NN <b>Total</b>	1 / 0 4 / 0 <b>5 / 0</b>	100 200 <b>300</b>	7.9 39.9 <b>47.8</b>	100 200 <b>300</b>	7.9 39.9 <b>47.8</b>	0 0 <b>0</b>	0.0 0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	376	N/A	N/A	N/A
Jul 15 22:30	TLR 5A	NEXT	6-NN <b>Total</b>	4 / 0 <b>4 / 0</b>	220 <b>220</b>	43.2 <b>43.2</b>	220 <b>220</b>	43.2 <b>43.2</b>	0 <b>0</b>	0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0</b>	371	N/A	N/A	N/A

Jul 15 23:29	TLR 5A	NEXT	6-NN <b>Total</b>	4 / 0 <b>4 / 0</b>	220 <b>220</b>	43.2 <b>43.2</b>	220 <b>220</b>	43.2 <b>43.2</b>	0 <b>0</b>	0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP MISO SWPP <b>0.0 0.0</b>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <b>0.0 0.0</b>	377	N/A	N/A	N/A
Jul 16 00:30	TLR 5A	NEXT	6-NN <b>Total</b>	1 / 0 <b>1 / 0</b>	100 <b>100</b>	20.5 <b>20.5</b>	100 <b>100</b>	20.5 <b>20.5</b>	0 <b>0</b>	0.0 <b>0.0</b>	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	MISO SWPP MISO SWPP MISO SWPP MISO SWPP <b>0.0 1.0 1.0</b>	0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 <b>1.0 1.0</b>	407	N/A	N/A	N/A
Jul 16 01:08	TLR 0	CURRENT	NONE								NONE	NONE		317	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	70	4210	4210	200
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	193	10364	10364	0
7	273	370	370	15
<b>Total</b>	<b>536</b>	<b>14944</b>	<b>14944</b>	<b>215</b>

### TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
WAUE	3.0	4.0
<b>Total</b>	<b>3.0</b>	<b>4.0</b>

### TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MVV	RC Ackn MVV
MISO	ED-2	0.0	0.0
	ED-8	3.2	3.2
	FIRM-7	0.0	0.0
Total MISO		3.2	3.2
SWPP	ED-2	118.6	118.6
	ED-8	102.0	102.0
	FIRM-7	0.0	0.0
Total for SWPP		218.6	218.6
<b>Total</b>		<b>221.7</b>	<b>221.8</b>

08/11/2009 14:19:33 (CST)

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	A	B	C	D
171	<b>Reliability Log for July, 14</b>			<b>2009</b>
172	Time	Initials	Comments	
178	0716	MRH	issued TLR Level 3B on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007.	
179	0825	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007.	
180	0930	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007.	
181	1027	MRH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007.	
182	1130	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
183	1233	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
184	1329	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
185	1433	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
186	1534	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
187	1631	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
188	1729	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
189	1833	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
190	1936	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
191	2029	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
192	2131	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. FOR FEASIBILITY	
193	2228	RGH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007.	
194	2326	RGH	Re-issued TLR Level 3A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007.	
195				
196	<b>Reliability Log for July, 15</b>			<b>2009</b>
197	Time	Initials	Comments	
198	0025	RGH	Re-issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007. per NPPD Op Guide	
199	0627	MRH	Re-issued TLR Level 1 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007	
200	0737	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY, control to 400 - currently at 526 per NPPD	
201	0833	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
202	0938	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
203	0942	MRH	WAPA-Glenn advised he has 0.9 NNL responsibility for HE1100 due to TLR 5A on FG 6007.	
204	1028	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
205	1127	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
206	1226	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
207	1330	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
208	1428	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
209	1529	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
210	1634	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
211	1733	MRH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY	
212	1832	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR LOADING & FEASIBILITY --	
213	1930	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR FEASIBILITY -- WAPA NNL Zero for HE 2100 CDT	
214	2031	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR FEASIBILITY	
215	2128	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR FEASIBILITY	
216	2229	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR FEASIBILITY	
217	2329	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR FEASIBILITY	
218				
	A	B	C	D
220	<b>Reliability Log for July, 16</b>			<b>2009</b>
221	Time	Initials	Comments	
222	0028	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR FEASIBILITY	
223	0130	RGH	Re-issued TLR Level 5A on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 FOR FEASIBILITY	
224	0207	RGH	Re-issued TLR Level 0 on GENTLMN3 345 REDWILO3 345 1 Flgt. 6007 to terminate current TLR event	
248				

6007 - 7/14/09 - 7/15/09

