

SPP TLR 5 Investigation Report
Flowgate 15815
(Temp 6 Woodring 345/138 kV Transformer for the loss of Woodring – Cimarron 345 kV line)
(Temp 6)
TLR Level 5: May 28 – 29, 2009
Report Issued: June 2, 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 15815 on May 28 – 29, 2009. Flowgate 15815 is an SPP flowgate. The Level 5 TLR was in effect from 23:00 on May 28 until 22:00 CST on May 29, 2009. Projected post-contingent flows on Woodring 345/138 kV transformer exceeded the SOL. The flowgate was created due to the temporary outage of the Spring Creek – Northwestern 345 kV line.

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 356 MVA. Flow on the Limiting Element was 159 MVA. Flow on the Contingent Element was 499 MVA. The LODF was approximately 33%. Post-contingent flow on the Limiting Element was approximately 323 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.

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, see pages 11-12. 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.

The next day 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 during the temporary outage of the Spring Creek – Northwestern 345 kV line. Due to this situation, no further actions were taken.

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.

TLR Event History

15815 - Temporary 06 Woodring 345/138 kV XFR ftlo Woodring - Cimarron 345 kV

Status	TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
								Tags	MW
SUPERSEDED	3B	05/28/2009 02:40	05/28/2009 02:30	05/28/2009 02:29:26	50.0	0.0	50.0	0	0
SUPERSEDED	3A	05/28/2009 04:00	05/28/2009 03:28	05/28/2009 03:27:44	26.0	0.0	26.0	0	0
SUPERSEDED	3A	05/28/2009 05:00	05/28/2009 04:28	05/28/2009 04:27:51	5.0	0.0	5.0	1	10
SUPERSEDED	3A	05/28/2009 06:00	05/28/2009 05:27	05/28/2009 05:27:33	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/28/2009 07:00	05/28/2009 06:28	05/28/2009 06:27:24	12.0	10.5	1.5	3	25
SUPERSEDED	3A	05/28/2009 08:00	05/28/2009 07:27	05/28/2009 07:26:37	4.0	0.0	4.0	2	15
SUPERSEDED	3A	05/28/2009 09:00	05/28/2009 08:26	05/28/2009 08:26:22	33.0	23.5	9.5	1	10
SUPERSEDED	3A	05/28/2009 10:00	05/28/2009 09:26	05/28/2009 09:25:50	26.0	7.5	18.5	1	10
SUPERSEDED	3A	05/28/2009 11:00	05/28/2009 10:26	05/28/2009 10:25:51	49.0	10.1	38.9	3	17
SUPERSEDED	3A	05/28/2009 12:00	05/28/2009 11:29	05/28/2009 11:28:48	17.0	4.4	12.6	2	12
SUPERSEDED	3A	05/28/2009 13:00	05/28/2009 12:35	05/28/2009 12:34:48	15.0	0.0	15.0	4	211
SUPERSEDED	3A	05/28/2009 14:00	05/28/2009 13:26	05/28/2009 13:25:43	14.0	3.7	10.3	3	124
SUPERSEDED	3A	05/28/2009 15:00	05/28/2009 14:29	05/28/2009 14:28:59	20.0	10.0	10.0	3	122
SUPERSEDED	3A	05/28/2009 16:00	05/28/2009 15:27	05/28/2009 15:26:56	8.0	0.0	8.0	3	99
SUPERSEDED	3A	05/28/2009 17:00	05/28/2009 16:26	05/28/2009 16:26:00	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/28/2009 18:00	05/28/2009 17:30	05/28/2009 17:29:52	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/28/2009 19:00	05/28/2009 18:28	05/28/2009 18:27:58	27.0	10.5	16.5	4	129
SUPERSEDED	3A	05/28/2009 20:00	05/28/2009 19:28	05/28/2009 19:27:44	1.0	0.0	14.4	3	207
SUPERSEDED	3A	05/28/2009 21:00	05/28/2009 20:32	05/28/2009 20:32:31	2.0	0.0	12.7	1	150
SUPERSEDED	3A	05/28/2009 22:00	05/28/2009 21:26	05/28/2009 21:26:33	0.0	0.0	0.0	0	0
SUPERSEDED	5A	05/28/2009 23:00	05/28/2009 22:30	05/28/2009 22:29:53	0.0	0.0	13.0	0	0
SUPERSEDED	5A	05/29/2009 00:00	05/28/2009 23:27	05/28/2009 23:26:59	0.0	0.0	16.0	0	0
SUPERSEDED	5A	05/29/2009 01:00	05/29/2009 00:29	05/29/2009 00:28:38	0.0	0.0	0.0	0	0
SUPERSEDED	5A	05/29/2009 02:00	05/29/2009 01:26	05/29/2009 01:26:02	0.0	0.0	0.0	0	0
SUPERSEDED	5A	05/29/2009 03:00	05/29/2009 02:27	05/29/2009 02:26:33	0.0	0.0	0.0	0	0
SUPERSEDED	5A	05/29/2009 04:00	05/29/2009 03:28	05/29/2009 03:27:33	0.0	0.0	0.0	0	0
SUPERSEDED	5A	05/29/2009 05:00	05/29/2009 04:26	05/29/2009 04:26:23	0.0	0.0	29.2	2	115
SUPERSEDED	5A	05/29/2009 06:00	05/29/2009 05:27	05/29/2009 05:25:53	0.0	0.0	6.2	2	115
SUPERSEDED	5A	05/29/2009 07:00	05/29/2009 06:28	05/29/2009 06:27:29	11.0	0.0	18.2	2	115
SUPERSEDED	5A	05/29/2009 08:00	05/29/2009 07:28	05/29/2009 07:27:31	38.0	0.0	38.3	14	196
SUPERSEDED	5A	05/29/2009 09:00	05/29/2009 08:26	05/29/2009 08:26:18	25.0	0.0	25.3	14	165
SUPERSEDED	5A	05/29/2009 10:00	05/29/2009 09:29	05/29/2009 09:28:48	20.0	0.0	20.3	15	154
SUPERSEDED	5A	05/29/2009 11:00	05/29/2009 10:33	05/29/2009 10:32:32	16.0	0.0	16.6	13	133
SUPERSEDED	5A	05/29/2009 12:00	05/29/2009 11:30	05/29/2009 11:30:14	4.0	0.0	5.4	1	100
SUPERSEDED	5A	05/29/2009 13:00	05/29/2009 12:32	05/29/2009 12:31:52	15.0	0.0	15.5	12	131
SUPERSEDED	5A	05/29/2009 14:00	05/29/2009 13:27	05/29/2009 13:26:51	26.0	0.0	26.5	14	179
SUPERSEDED	5A	05/29/2009 15:00	05/29/2009 14:28	05/29/2009 14:27:49	24.0	0.0	24.2	11	151

SUPERSEDED	5A	05/29/2009 16:00	05/29/2009 15:26	05/29/2009 15:26:26	0.0	0.0	5.3	1	100
SUPERSEDED	5A	05/29/2009 17:00	05/29/2009 16:29	05/29/2009 16:29:01	9.0	0.0	9.5	10	115
SUPERSEDED	5A	05/29/2009 18:00	05/29/2009 17:32	05/29/2009 17:31:25	13.0	0.0	13.3	10	120
SUPERSEDED	5A	05/29/2009 19:00	05/29/2009 18:37	05/29/2009 18:36:33	0.0	0.0	5.3	1	100
SUPERSEDED	5A	05/29/2009 20:00	05/29/2009 19:27	05/29/2009 19:27:16	0.0	0.0	5.3	1	100
SUPERSEDED	5A	05/29/2009 21:00	05/29/2009 20:29	05/29/2009 20:29:04	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/29/2009 22:00	05/29/2009 21:31	05/29/2009 21:30:56	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/29/2009 23:00	05/29/2009 22:27	05/29/2009 22:27:23	30.0	27.6	2.4	1	25
SUPERSEDED	3A	05/30/2009 00:00	05/29/2009 23:27	05/29/2009 23:26:37	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/30/2009 01:00	05/30/2009 00:26	05/30/2009 00:26:16	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/30/2009 02:00	05/30/2009 01:27	05/30/2009 01:27:23	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/30/2009 03:00	05/30/2009 02:26	05/30/2009 02:26:12	0.0	0.0	0.0	0	0
TERMINATED	0	05/30/2009 03:35	05/30/2009 03:23	05/30/2009 03:23:00	0.0	0.0	0.0	0	0

06/09/2009 11:43:30 (CST)

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May 28 10:26	TLR 3A	NEXT	1-NS 6-NN Total	2 / 0 1 / 0 3 / 0	12 5 17	0.6 0.3 0.9	12 5 17	0.6 0.3 0.9	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 38.0 38.0	0.0 0.0 38.0 38.0	140	305	504	N/A
May 28 11:29	TLR 3A	NEXT	1-NS Total	2 / 0 2 / 0	12 12	0.6 0.6	12 12	0.6 0.6	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 12.0 12.0	0.0 0.0 12.0 12.0	150	326	538	N/A
May 28 12:36	TLR 3A	NEXT	1-NS 2-NH Total	2 / 0 1 / 0 3 / 0	12 111 123	0.6 9.6 10.2	12 111 123	0.6 9.6 10.2	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	151	334	557	N/A
May 28 13:26	TLR 3A	NEXT	1-NS 2-NH Total	2 / 0 1 / 0 3 / 0	12 112 124	0.6 9.7 10.3	12 112 124	0.6 9.7 10.3	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	123	318	595	N/A
May 28 14:29	TLR 3A	NEXT	1-NS 2-NH Total	2 / 0 1 / 0 3 / 0	12 110 122	0.6 9.3 10.0	12 110 122	0.6 9.3 10.0	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	125	310	565	N/A
May 28 15:27	TLR 3A	NEXT	1-NS 2-NH Total	2 / 0 1 / 0 3 / 0	12 87 99	0.6 7.4 8.0	12 87 99	0.6 7.4 8.0	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	128	310	554	N/A
May 28 16:26	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	128	311	557	N/A
May 28 17:30	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	132	324	584	N/A
May 28 18:28	TLR 3A	NEXT	1-NS 2-NH 6-NN Total	2 / 0 1 / 0 1 / 0 4 / 0	12 112 5 129	0.6 9.5 0.3 10.5	12 112 5 129	0.6 9.5 0.3 10.5	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 6.0 6.0	0.0 0.0 6.0 6.0	45	171	383	N/A
May 28 19:28	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	148	327	547	N/A
May 28 20:32	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	149	315	508	N/A
May 28 21:26	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	150	315	503	N/A
May 28 22:30	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 13.0 0.0 0.0 13.0	0.0 13.0 0.0 0.0 13.0	159	323	499	Went to 5A for feasibility

May 28 23:27	TLR 5A	NEXT	NONE							NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 11.0 5.0 0.0 16.0	0.0 11.0 5.0 0.0 16.0	155	337	554	N/A	
May 29 00:29	TLR 5A	NEXT	NONE							NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	138	322	561	N/A	
May 29 01:26	TLR 5A	NEXT	NONE							NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	147	325	544	N/A	
May 29 02:27	TLR 5A	NEXT	NONE							NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	151	332	552	N/A	
May 29 03:28	TLR 5A	NEXT	NONE							NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	149	322	527	N/A	
May 29 04:26	TLR 5A	NEXT	1-NS 6-NN Total	1 / 0 1 / 0 2 / 0	15 100 115	0.8 5.4 6.2	15 100 115	0.8 5.4 6.2	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 1.0 22.0 0.0 23.0	0.0 1.0 22.0 0.0 23.0	152	325	526	N/A
May 29 05:27	TLR 5A	NEXT	1-NS 6-NN Total	1 / 0 1 / 0 2 / 0	15 100 115	0.8 5.4 6.2	15 100 115	0.8 5.4 6.2	0 0 0	0.0 0.0 0.0	NONE	NONE				151	320	516	N/A
May 29 06:28	TLR 5A	NEXT	1-NS 6-NN Total	1 / 0 1 / 0 2 / 0	15 100 115	0.8 5.4 6.2	15 100 115	0.8 5.4 6.2	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 12.0 0.0 12.0	0.0 0.0 12.0 0.0 12.0	0	0	0	N/A
May 29 07:28	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 1 / 0 12 / 0 14 / 0	15 100 81 196	0.8 5.4 7.7 13.9	15 100 81 196	0.8 5.4 7.7 13.9	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 24.4 0.0 24.4	0.0 0.0 24.4 0.0 24.4	147	304	480	N/A
May 29 08:26	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 1 / 0 12 / 0 14 / 0	15 100 50 165	0.8 5.4 4.6 10.8	15 100 50 165	0.8 5.4 4.6 10.8	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 14.4 0.0 14.4	0.0 0.0 14.4 0.0 14.4	158	323	502	N/A
May 29 09:29	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 1 / 0 13 / 0 15 / 0	15 100 39 154	0.8 5.4 3.6 9.8	15 100 39 154	0.8 5.4 3.6 9.8	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 10.5 0.0 10.5	0.0 0.0 10.5 0.0 10.5	155	318	498	N/A

May 29 10:33	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 12 / 0 13 / 0	100 33 133	5.4 3.1 8.5	100 33 133	5.4 3.1 8.5	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 8.1 0.0 8.1	0.0 0.0 8.1 0.0 8.1	154	302	451	N/A
May 29 11:30	TLR 5A	NEXT	6-NN Total	1 / 0 1 / 0	100 100	5.4 5.4	100 100	5.4 5.4	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	147	296	455	N/A
May 29 12:32	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 11 / 0 12 / 0	100 31 131	5.4 2.8 8.2	100 31 131	5.4 2.8 8.2	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 7.2 0.0 7.2	0.0 0.0 7.2 0.0 7.2	126	269	437	N/A
May 29 13:27	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 1 / 0 12 / 0 14 / 0	15 100 64 179	0.8 5.4 6.1 12.2	15 100 64 179	0.8 5.4 6.1 12.2	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 14.2 0.0 14.2	0.0 0.0 14.2 0.0 14.2	143	287	439	N/A
May 29 14:28	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 10 / 0 11 / 0	100 51 151	5.3 5.1 10.4	100 51 151	5.3 5.1 10.4	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 13.8 0.0 13.8	0.0 0.0 13.8 0.0 13.8	167	315	451	N/A
May 29 15:28	TLR 5A	NEXT	6-NN Total	1 / 0 1 / 0	100 100	5.3 5.3	100 100	5.3 5.3	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	172	322	458	N/A
May 29 16:29	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 9 / 0 10 / 0	100 15 115	5.3 1.3 6.7	100 15 115	5.3 1.3 6.7	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 2.8 0.0 2.8	0.0 0.0 2.8 0.0 2.8	171	315	438	N/A
May 29 17:32	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 9 / 0 10 / 0	100 20 120	5.3 1.8 7.1	100 20 120	5.3 1.8 7.1	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 6.2 0.0 6.2	0.0 0.0 6.2 0.0 6.2	176	332	478	N/A
May 29 18:37	TLR 5A	NEXT	6-NN Total	1 / 0 1 / 0	100 100	5.3 5.3	100 100	5.3 5.3	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	164	320	478	N/A
May 29 19:27	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 0 / 1 1 / 1	100 0 100	5.3 0.0 5.3	100 0 100	5.3 0.0 5.3	0 25 25	0.0 2.8 2.8	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	152	314	493	N/A
May 29 20:29	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	149	329	550	N/A

May 29 21:31	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	145	324	548	N/A
May 29 22:27	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	2.4 2.4	25 25	2.4 2.4	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	138	320	558	N/A
May 29 23:27	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	118	301	558	N/A
May 30 00:26	TLR 3A	NEXT	7-F Total	0 / 1 0 / 1	0 0	0.0 0.0	0 0	0.0 0.0	30 30	1.5 1.5	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	122	305	557	N/A
May 30 01:27	TLR 3A	NEXT	7-F Total	0 / 1 0 / 1	0 0	0.0 0.0	0 0	0.0 0.0	5 5	0.3 0.3	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	124	314	578	N/A
May 30 02:26	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	125	316	582	N/A
May 30 03:23	TLR 0	CURRENT	NONE								NONE	NONE				116	299	558	N/A

TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MVV	RC Cut Acknowledge MVV	Hold MVV
0	0	0	0	0
1	28	239	239	0
2	5	532	532	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	22	1655	1655	0
7	100	384	384	60
Total	153	2810	2810	60

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MVV	RC Ackn MVV
SWPP	ED-2	0.0	0.0
	ED-6	89.5	89.5
	FIRM-7	242.9	242.9
Total for SWPP		332.4	332.4
Total		332.4	332.4

06/09/2009 11:43:25 (CST)

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

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A	B	C	D
Reliability Log for May, 28			2009
Time	Initials	Comments	
0329	MRH	Issued TLR Level 3B on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
0427	MRH	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
0527	MRH	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
0627	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
0727	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
0826	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
0926	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1025	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1125	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1228	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1334	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1425	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1528	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1626	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1726	WRG	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1829	MRH	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
1927	MRH	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
2027	MRH	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
2132	MRH	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
2225	MRH	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815	
2329	MRH	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	

A	B	C	D
Reliability Log for May, 29			2009
Time	Initials	Comments	
0032	MRH	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0128	MRH	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0226	MRH	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0327	MRH	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0427	MRH	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0526	MRH	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0625	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0727	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0827	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
0926	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1028	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1132	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1230	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1331	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1426	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1527	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1626	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1729	WRG	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Went to Level 5 for feasibility reasons not flow.	
1831	RST	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Loading and feasibility.	
1937	RST	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Loading and feasibility.	
2027	RST	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Loading and feasibility.	
2129	RST	Re-issued TLR Level 5A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815. Loading and feasibility.	
2230	RST	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815.	
2327	RST	Re-issued TLR Level 3A on Temp 6 Woodring 345/138 kV XMFR fto Sooner-Woodring 345kV, Flgt. 15815.	

15815 5/28/09 - 5/29/09

