

**SPP TLR 5 Investigation Report
Temp 6 Flowgate 16094
(Neosho – Columbus 161 kV for the loss of Neosho – Morgan 345 kV)
TLR Level 5: December 25-26, 2009
Report Issued: December 29, 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 16094 on December 25-26, 2009. Flowgate 16094 is an SPP flowgate created for a planned outage of Northeastern – Delaware 345 kV line earlier in December. Loading on the flowgate remained relatively high after the Northeastern – Delaware 345 kV line was returned to service so the flowgate was maintained following the end of the outage. The Level 5 TLR was in effect from 00:55 until 14:05 CST on December 25 and again from 7:05 until 13:00 CST on December 26, 2009. Projected post contingent flows on the Neosho – Columbus 161 kV line exceeded the SOL.

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

At the time the Level 5B TLR was issued, the Limiting Element was rated at 215 MVA. Flow on the Limiting Element was 202 MVA. Flow on the Contingent Element was 151 MVA. The LODF was approximately 13%. Post-contingent flow on the Limiting Element was projected to be approximately 221 MW.

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 3-8.

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

Generation at Flint Creek tripped the day before and had not returned to service yet. This caused an increase in flowgate loading.

5. Procedures implemented prior to hold/curtailment.

There were no non-firm transactions impacting the flowgate by more than 5% prior to the Level 5 TLR. The TLR was initially implemented at a Level 5 in order to curtail firm transactions and firm market flow to alleviate loading on the flowgate.

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

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

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

There were no known transactions not in the IDC.

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

Information was provided to Reliability Coordinators through the IDC and the RCIS. Also the SPP Reliability Coordinators logged information describing the actions taken at each issuance of the TLR, see pages 9-10. 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 pages 11-12.

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 due to the unscheduled outage of Flint Creek generation and lack of available generation in the Joplin area.

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 Flows were reduced on the flowgate as reported in the TLR Event History and NERC TLR Log on pages 3-8.

TLR Event History

16094 - Temp 6 -- Neosho - Columbus 161kV (flo) Neosho - Morgan 345kV

Status	TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
								Tags	MW
SUPERSEDED	5B	12/25/2009 00:55	12/25/2009 00:42	12/25/2009 00:42:26	30.0	0.0	30.0	2	12
SUPERSEDED	5A	12/25/2009 02:00	12/25/2009 01:30	12/25/2009 01:29:33	10.0	0.0	11.0	0	0
SUPERSEDED	5A	12/25/2009 03:00	12/25/2009 02:26	12/25/2009 02:26:24	50.0	0.0	50.0	2	44
SUPERSEDED	5A	12/25/2009 04:00	12/25/2009 03:28	12/25/2009 03:28:15	50.0	0.0	50.0	1	27
SUPERSEDED	5A	12/25/2009 05:00	12/25/2009 04:28	12/25/2009 04:27:41	18.0	0.0	18.0	2	18
SUPERSEDED	5A	12/25/2009 06:00	12/25/2009 05:26	12/25/2009 05:26:02	31.0	0.0	31.0	3	54
SUPERSEDED	5A	12/25/2009 07:00	12/25/2009 06:27	12/25/2009 06:27:23	19.0	0.0	19.1	3	32
SUPERSEDED	5A	12/25/2009 08:00	12/25/2009 07:27	12/25/2009 07:26:53	30.0	0.0	30.1	3	49
SUPERSEDED	5A	12/25/2009 09:00	12/25/2009 08:28	12/25/2009 08:28:23	23.0	0.0	23.1	3	32
SUPERSEDED	5A	12/25/2009 10:00	12/25/2009 09:27	12/25/2009 09:26:55	12.0	0.0	12.1	3	18
SUPERSEDED	5A	12/25/2009 11:00	12/25/2009 10:27	12/25/2009 10:27:06	33.0	0.0	33.1	3	46
SUPERSEDED	5A	12/25/2009 12:00	12/25/2009 11:26	12/25/2009 11:25:51	35.0	0.0	35.1	3	49
SUPERSEDED	5A	12/25/2009 13:00	12/25/2009 12:28	12/25/2009 12:27:00	0.0	0.0	0.0	0	0
SUPERSEDED	5A	12/25/2009 14:00	12/25/2009 13:27	12/25/2009 13:27:26	0.0	0.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 14:05	12/25/2009 13:46	12/25/2009 13:45:44	0.0	0.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 15:00	12/25/2009 14:31	12/25/2009 14:31:18	0.0	0.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 16:00	12/25/2009 15:29	12/25/2009 15:29:07	0.0	0.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 17:00	12/25/2009 16:30	12/25/2009 16:30:32	35.0	35.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 18:00	12/25/2009 17:34	12/25/2009 17:34:31	9.0	9.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 19:00	12/25/2009 18:29	12/25/2009 18:28:39	33.0	33.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 20:00	12/25/2009 19:29	12/25/2009 19:28:38	21.0	21.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 21:00	12/25/2009 20:32	12/25/2009 20:32:36	23.0	23.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 22:00	12/25/2009 21:34	12/25/2009 21:34:02	5.0	5.0	0.0	0	0
SUPERSEDED	3A	12/25/2009 23:00	12/25/2009 22:32	12/25/2009 22:32:34	38.0	38.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 00:00	12/25/2009 23:28	12/25/2009 23:28:08	28.0	28.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 01:00	12/26/2009 00:30	12/26/2009 00:30:18	19.0	19.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 02:00	12/26/2009 01:34	12/26/2009 01:33:44	33.0	33.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 03:00	12/26/2009 02:30	12/26/2009 02:29:45	32.0	32.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 04:00	12/26/2009 03:35	12/26/2009 03:34:48	36.0	36.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 05:00	12/26/2009 04:29	12/26/2009 04:29:14	19.0	17.0	2.0	0	0
SUPERSEDED	3A	12/26/2009 06:00	12/26/2009 05:28	12/26/2009 05:28:38	21.0	21.0	0.0	0	0
SUPERSEDED	5A	12/26/2009 07:05	12/26/2009 06:50	12/26/2009 06:50:00	0.0	0.0	0.0	0	0
SUPERSEDED	5A	12/26/2009 08:05	12/26/2009 07:49	12/26/2009 07:48:42	0.0	0.0	0.0	0	0
SUPERSEDED	5A	12/26/2009 09:00	12/26/2009 08:36	12/26/2009 08:35:52	0.0	0.0	0.0	0	0
SUPERSEDED	5A	12/26/2009 10:00	12/26/2009 09:45	12/26/2009 09:44:40	0.0	0.0	0.0	0	0
SUPERSEDED	5A	12/26/2009 11:00	12/26/2009 10:40	12/26/2009 10:39:36	0.0	0.0	0.0	0	0
SUPERSEDED	5A	12/26/2009 12:00	12/26/2009 11:30	12/26/2009 11:29:48	0.0	0.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 13:00	12/26/2009 12:30	12/26/2009 12:29:54	21.0	21.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 14:00	12/26/2009 13:27	12/26/2009 13:27:18	0.0	0.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 15:00	12/26/2009 14:29	12/26/2009 14:29:19	0.0	0.0	0.0	0	0
SUPERSEDED	3A	12/26/2009 16:00	12/26/2009 15:28	12/26/2009 15:27:46	33.0	31.0	2.0	0	0
SUPERSEDED	3A	12/26/2009 17:00	12/26/2009 16:31	12/26/2009 16:30:13	33.0	31.0	2.0	0	0
SUPERSEDED	3A	12/26/2009 18:00	12/26/2009 17:29	12/26/2009 17:28:46	0.0	0.0	0.0	0	0
TERMINATED	0	12/26/2009 18:20	12/26/2009 18:10	12/26/2009 18:10:19	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_16094_20091225_0055.htm

Incident: SWPP_16094_20091225_0055	Date: 12/25/2009	Reliability Coordinator: SWPP
Initial Conditions: Increased Loading		
Flowgate: 16094 - Temp 6 -- Neosho - Columbus 16...	Rating: 215	LODF: 13.14%
TLR Direction: Normal		
Effective StartTime: 12/25/2009 00:55	Effective EndTime: 12/26/2009 18:20	TLR Duration: 41 Hours and 25 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											
Dec 25 00:42	TLR 5B	CURRENT		NONE							NONE			ED-2	SWPP	0.0	0.0	202	221	151	N/A
		NEXT		NONE							NONE			NONE							
Dec 25 01:30	TLR 5A	NEXT		NONE							NONE			ED-2	SWPP	0.0	0.0	170	185	120	N/A
				NONE							NONE			ED-2	SWPP	0.0	0.0				
Dec 25 02:28	TLR 5A	NEXT	7-F	2 / 0	44	2.8	44	2.8	0	0.0	NONE			ED-2	SWPP	0.0	0.0	159	185	200	N/A
			Total	2 / 0	44	2.8	44	2.8	0	0.0											
				NONE							NONE			ED-2	SWPP	0.0	0.0				
Dec 25 03:28	TLR 5A	NEXT	7-F	1 / 0	27	1.6	27	1.6	0	0.0	NONE			ED-2	SWPP	0.0	0.0	161	185	188	N/A
			Total	1 / 0	27	1.6	27	1.6	0	0.0											
				NONE							NONE			ED-2	SWPP	0.0	0.0				
Dec 25 04:28	TLR 5A	NEXT	7-F	2 / 0	18	1.1	18	1.1	0	0.0	NONE			ED-2	SWPP	0.0	0.0	172	198	189	N/A
			Total	2 / 0	18	1.1	18	1.1	0	0.0											
				NONE							NONE			ED-2	SWPP	0.0	0.0				
Dec 25 05:28	TLR 5A	NEXT	7-F	3 / 0	54	3.2	54	3.2	0	0.0	NONE			ED-2	SWPP	0.0	0.0	181	205	190	N/A
			Total	3 / 0	54	3.2	54	3.2	0	0.0											
				NONE							NONE			ED-2	SWPP	0.0	0.0				
Dec 25 06:27	TLR 5A	NEXT	7-F	3 / 0	32	1.9	32	1.9	0	0.0	NONE			ED-2	SWPP	0.0	0.0	183	212	222	N/A
			Total	3 / 0	32	1.9	32	1.9	0	0.0											
				NONE							NONE			ED-2	SWPP	0.0	0.0				
				NONE							NONE			ED-6	SWPP	0.0	0.0				
				NONE							NONE			FIRM-7	SWPP	17.2	17.2				
				NONE							NONE			FIRM-CREDIT	SWPP	0.0	0.0				
				NONE							NONE			Total		17.2	17.2				

Dec 25 07:27	TLR 5A	NEXT	7-F Total	3 / 0 3 / 0	49 49	2.9 2.9	49 49	2.9 2.9	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 27.1 0.0 27.1	0.0 0.0 27.1 0.0 27.1	183	219	281	N/A
Dec 25 08:28	TLR 5A	NEXT	7-F Total	3 / 0 3 / 0	32 32	2.0 2.0	32 32	2.0 2.0	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 21.1 0.0 21.1	0.0 0.0 21.1 0.0 21.1	172	211	303	N/A
Dec 25 09:27	TLR 5A	NEXT	7-F Total	3 / 0 3 / 0	18 18	1.1 1.1	18 18	1.1 1.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 11.0 0.0 11.0	0.0 0.0 11.0 0.0 11.0	161	197	278	N/A
Dec 25 10:27	TLR 5A	NEXT	7-F Total	3 / 0 3 / 0	46 46	2.8 2.8	46 46	2.8 2.8	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 30.3 0.0 30.3	0.0 0.0 30.3 0.0 30.3	163	201	295	N/A
Dec 25 11:28	TLR 5A	NEXT	7-F Total	3 / 0 3 / 0	49 49	3.0 3.0	49 49	3.0 3.0	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 32.1 0.0 32.1	0.0 0.0 32.1 0.0 32.1	157	200	331	N/A
Dec 25 12:28	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	151	196	344	N/A
Dec 25 13:27	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	149	195	352	N/A
Dec 25 13:46	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	194	354	N/A
Dec 25 14:31	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	147	194	358	N/A
Dec 25 15:29	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	155	205	382	N/A
Dec 25 16:30	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	155	205	383	N/A
Dec 25 17:34	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	166	209	331	N/A

Dec 25 18:29	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	177	216	302	N/A
Dec 25 19:29	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	179	218	301	N/A
Dec 25 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	173	214	314	N/A
Dec 25 21:34	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	171	210	299	N/A
Dec 25 22:32	TLR 3A	NEXT	7-F Total	0 / 1 0 / 1	0 0	0.0 0.0	0 0	0.0 0.0	20 20	1.4 1.4	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	177	213	278	N/A
Dec 25 23:28	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	187	221	285	N/A
Dec 26 00:30	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	170	208	290	N/A
Dec 26 01:34	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	177	216	297	N/A
Dec 26 02:30	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	188	224	296	N/A
Dec 26 03:35	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	185	223	291	N/A
Dec 26 04:29	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 2.0 0.0 2.0	0.0 2.0 0.0 2.0	180	217	289	N/A
Dec 26 05:28	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	178	216	295	N/A
Dec 26 06:50	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	183	222	303	N/A

Dec 26 07:49	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	189	228	303	N/A
Dec 26 08:36	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	172	207	267	N/A
Dec 26 09:45	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	175	209	259	N/A
Dec 26 10:40	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	173	208	271	N/A
Dec 26 11:30	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	174	208	265	N/A
Dec 26 12:30	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	175	212	285	N/A
Dec 26 13:27	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	165	197	251	N/A
Dec 26 14:29	TLR 3A	NEXT	7-F Total	0 / 1 0 / 1	0 0	0.0 0.0	0 0	0.0 0.0	25 25	1.7 1.7	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	164	198	259	N/A
Dec 26 15:28	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 2.0 0.0 2.0	0.0 2.0 0.0 2.0	168	202	260	N/A
Dec 26 16:31	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 2.0 0.0 2.0	0.0 2.0 0.0 2.0	178	212	259	N/A
Dec 26 17:29	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	158	184	202	N/A
Dec 26 18:10	TLR 0	CURRENT	NONE								NONE	NONE			145	174	221	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	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	26	369	369	45
Total	26	369	369	45

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	27.0	27.0
	FIRM-7	298.5	298.5
Total for SWPP		325.5	325.5
Total		325.5	325.5

12/29/2009 12:33:27 (CST)

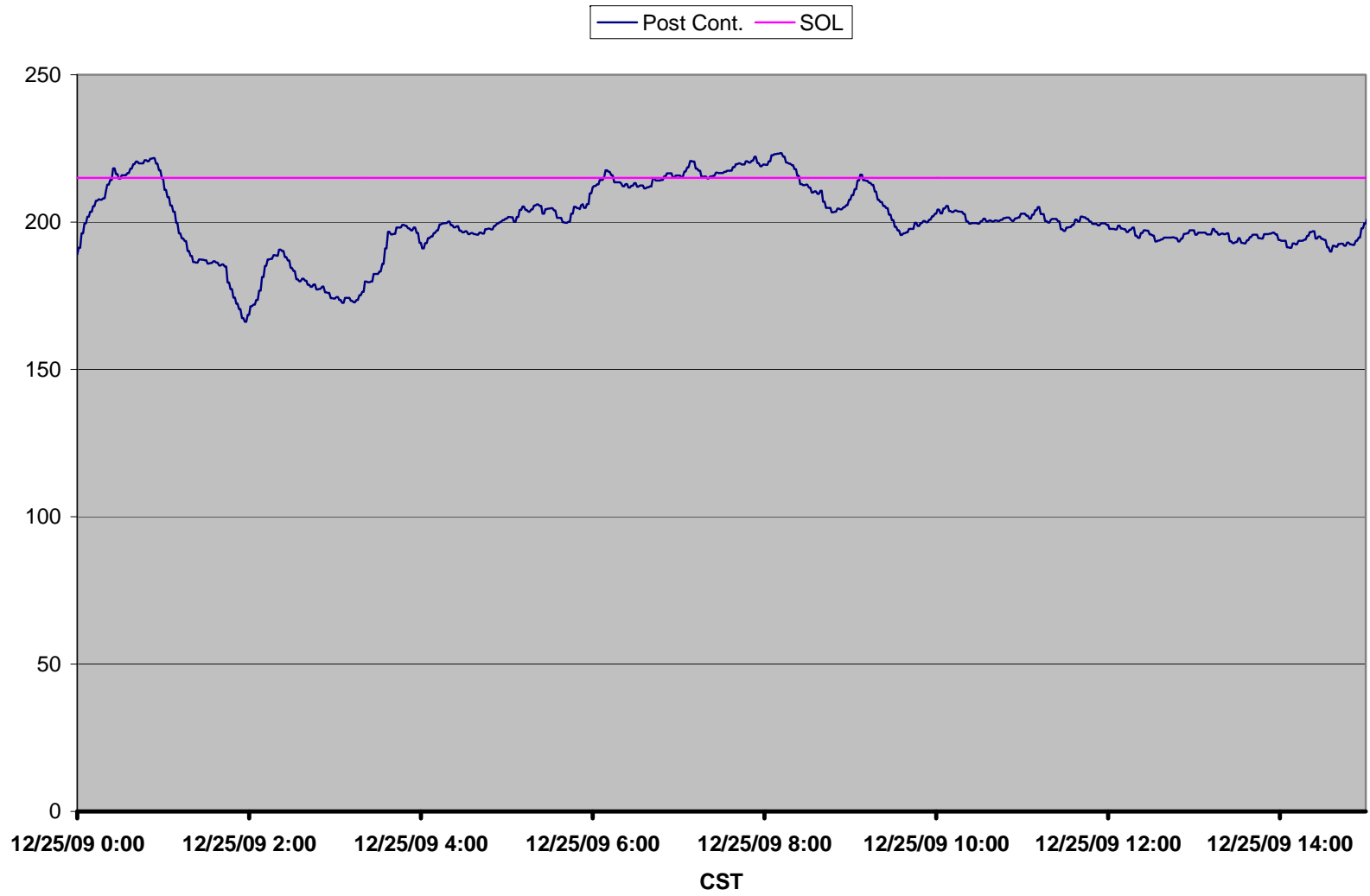
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	A	B	C	D	E
1	Merry Christmas!	Reliability Log for December, 25			2009
2	Time	Initials	Comments	Friday	
3	0042	MRH	Issued TLR Level 5B on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
4	0043	MRH	Set the effective limits on FG 16045 and 16094 to 190 to try and lower the loading. Both FG above 104% even after TLR 5 issue.		
5	0129	MRH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
6	0226	MRH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
7	0328	MRH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
8	0427	MRH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
9	0526	MRH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
10	0627	WRG	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
11	0726	WRG	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
12	0828	WRG	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
13	0926	WRG	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
14	1027	WRG	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
15	1125	WRG	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
16	1227	WRG	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
17	1327	WRG	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. LOADING		
18	1431	WRG	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
19	1529	WRG	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
20	1630	WRG	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
21	1734	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
22	1828	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
23	1928	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
24	2032	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
25	2134	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
26	2232	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
27	2328	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
28					
29					

	A	B	C	D	E
31	Reliability Log for December, 26				2009
32	Time	Initials	Comments		
33	0030	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
34	0133	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
35	0229	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
36	0334	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
37	0429	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
38	0528	RST	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094.		
39	0650	RGH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. Feasibility		
40	0748	RGH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. Feasibility		
41	0835	RGH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. Feasibility		
42	0944	RGH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. Feasibility		
43	1039	RGH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. Feasibility		
44	1129	RGH	Re-issued TLR Level 5A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094. Feasibility		
45	1229	RGH	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094		
46	1327	RGH	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094		
47	1429	RGH	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094		
48	1453	RGH	Tyler @ AEP reports that Flint Creek is decreasing generation to 125 - 150mw total output to check for condenser leak. This unit has a 5% impact on temp 6 as an increment unit		
49	1527	RGH	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094		
50	1630	RGH	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094		
51	1728	RGH	Re-issued TLR Level 3A on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094		
52	1810	RST	Re-issued TLR Level 0 on Temp 6 Neosho-Columbus 161kV fto Neosho-Morgan 345kV Flgt 16094		
53					

Temp06_16094 - 12/25/09



Temp06_16094 - 12/26/09

