

ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams 500-230 for the loss of McAdams - Lakeover 500 kV)
TLR Level 5: July 10, 2009
Report Issued:

1. Description of purpose/cause of hold/curtailment.

This report is submitted in accordance with the NERC Transmission Loading Relief Investigation Procedure for the TLR 5 event that occurred on Flowgate 1330 on July 10, 2009. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 4:17 PM until 1:30 PM on July 11, 2009. Projected post-contingent flows on the McAdams 500-230 line for the loss of the McAdams - Lakeover 500 kV line exceeded the SOL.

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

At the time the TLR 5b was issued, the Limiting Element was rated at 615 MVA. Flow on the Limiting Element was 429 MVA. Flow on the Contingent Element was 652 MVA. The LODF was approximately 43%. Post-contingent flow on the Limiting Element was approximately 709 MVA.

3. TLR levels, timing, and relief requested amounts.

TLRs levels, timing and relief requested amounts are shown on pages 3, 4, and 5.

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

There were no unplanned outages.

5. Procedures implemented prior to hold/curtailment.

Curtailed non-firm transactions, not enough non-firm to alleviate 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.

Transactions SOCO_CRGL1ADH0709M_EES, SOCO_SWENDSWF149F_EES, and SOCO_SWENDSWF150M_EES were excluded from curtailment for this TLR. LAFA was in EEA 3's at this time.

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 ICTE Reliability Coordinators logged information describing the actions taken at each issuance of the TLR.

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

In the next day process, we did see an issue with this flowgate, based off of the peak study.

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 ICTE Reliability Coordinator was monitoring their state estimator for potential issues during this time. Screen shots were taken during each issuance of the TLR level 5.

11. ATC limitations before, during, and after the TLR event.

ICT Tariff Administration grants transmission service using an AFC process. This process evaluates each transmission request on a case by case basis. There are no ATC values for individual corridors to or from the Entergy system. ICT Tariff Administration was not granting any transmission requests that impacted the congested flowgate by 3 % or greater at the time of the TLR 5.

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 this situation, no actions were taken to avoid future hold/curtailments.

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 kept on file. These screen shots are not being provided to reduce the size of this report.

14. Re-dispatch actions taken.

Entergy achieved their NNL obligation by moving Andrus 1 and Attala1.

Event History

Issuing RC: ICTE
Flowgate: 1330 - McAdams500-230 for loss of McAdams-Lakeover
Event Begin: 2009-07-10 10:30
Event End: 2009-07-11 13:40
Event Duration: 27 Hours

TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 4	07/10/2009 10:30	07/10/2009 10:20	07/10/2009 10:19:04	0.0	0.0	0.0	6	363
TLR Level 4	07/10/2009 11:35	07/10/2009 11:26	07/10/2009 11:26:19	0.0	0.0	0.0	0	0
TLR Level 4	07/10/2009 12:40	07/10/2009 12:28	07/10/2009 12:27:27	0.0	0.0	0.0	0	0
TLR Level 4	07/10/2009 13:35	07/10/2009 13:26	07/10/2009 13:25:40	0.0	0.0	0.0	0	0
TLR Level 4	07/10/2009 14:35	07/10/2009 14:26	07/10/2009 14:25:50	0.0	0.0	0.0	0	0
TLR Level 5B	07/10/2009 15:30	07/10/2009 15:18	07/10/2009 15:17:24	75.0	0.0	76.0	30	195
TLR Level 5A	07/10/2009 17:00	07/10/2009 16:27	07/10/2009 16:26:06	6.0	0.0	65.4	30	190
TLR Level 5A	07/10/2009 18:00	07/10/2009 17:29	07/10/2009 17:27:49	2.0	0.0	51.5	30	159
TLR Level 5A	07/10/2009 19:00	07/10/2009 18:27	07/10/2009 18:25:44	0.0	0.0	27.0	21	100
TLR Level 5A	07/10/2009 20:00	07/10/2009 19:28	07/10/2009 19:26:38	0.0	0.0	18.6	16	78
TLR Level 5A	07/10/2009 21:00	07/10/2009 20:29	07/10/2009 20:26:09	6.0	0.0	18.1	16	77
TLR Level 5A	07/10/2009 22:00	07/10/2009 21:27	07/10/2009 21:25:38	4.0	0.0	16.4	18	41
TLR Level 5A	07/10/2009 23:00	07/10/2009 22:32	07/10/2009 22:30:12	28.0	0.0	41.1	20	310
TLR Level 5A	07/11/2009 00:00	07/10/2009 23:29	07/10/2009 23:26:28	16.0	0.0	33.5	22	218
TLR Level 5A	07/11/2009 01:00	07/11/2009 00:30	07/11/2009 00:25:45	4.0	0.0	20.4	18	183
TLR Level 1	07/11/2009 01:25	07/11/2009 01:15	07/11/2009 01:14:31	0.0	0.0	0.0	0	0
TLR Level 4	07/11/2009 09:30	07/11/2009 09:21	07/11/2009 09:20:09	0.0	0.0	0.0	0	0
TLR Level 4	07/11/2009 10:35	07/11/2009 10:26	07/11/2009 10:25:30	0.0	0.0	0.0	0	0
TLR Level 5A	07/11/2009 12:00	07/11/2009 11:29	07/11/2009 11:27:40	53.0	0.0	54.1	21	134
TLR Level 5A	07/11/2009 13:00	07/11/2009 12:28	07/11/2009 12:25:42	9.0	0.0	50.7	20	128
TLR Level 0	07/11/2009 13:40	07/11/2009 13:27	07/11/2009 13:27:06	0.0	0.0	0.0	0	0

08/04/2009 08:35:34 (CST)

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

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Event Summary

FILE SAVED AS: ICTE_1330_20090710_1030.htm

Incident: ICTE_1330_20090710_1030	Date: 07/10/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of McA...	Rating: 615	LODF: 42.98%
TLR Direction: Normal		
Effective StartTime: 07/10/2009 10:30	Effective EndTime: 07/11/2009 13:40	TLR Duration: 27 Hours and 10 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								NNL Relief			Market Relief				Flow		TLR Action Comments
				Total Tags Cut / Hold	MW	Relief	RC Cut Acknowledge	MW	Relief	MW	Relief	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	
Jul 10 10:20	TLR 4	CURRENT	1-NS	1 / 0	11	0.9	11	0.9	0	0.0	NONE			NONE				371	644	636	N/A
		2-NH	1 / 0	200	13.3	200	13.3	0	0.0	NONE			NONE								
		6-NN	4 / 0	152	15.2	152	15.2	0	0.0	NONE			NONE								
		Total	6 / 0	1090	29.3	363	29.3	0	0.0	NONE			NONE								
		NEXT	1-NS	1 / 0	20	1.7	20	1.7	0	0.0	NONE			NONE							
		2-NH	2 / 0	242	16.2	242	16.2	0	0.0	NONE			NONE								
		6-NN	6 / 1	465	43.8	465	43.8	75	6.2	NONE			NONE								
		Total	9 / 1	1090	61.8	727	61.8	75	6.2	NONE			NONE								
Jul 10 11:26	TLR 4	CURRENT	NONE								NONE			NONE				345	534	440	N/A
		NEXT	2-NH	1 / 0	200	13.3	200	13.3	0	0.0	NONE			NONE							
		6-NN	3 / 0	58	5.8	58	5.8	0	0.0	NONE			NONE								
		Total	4 / 0	258	18.8	258	18.8	0	0.0	NONE			NONE								
Jul 10 12:28	TLR 4	CURRENT	NONE								NONE			NONE				384	601	507	N/A
		NEXT	2-NH	1 / 0	200	13.3	200	13.3	0	0.0	NONE			NONE							
		6-NN	2 / 0	50	5.2	50	5.2	0	0.0	NONE			NONE								
		7-F	2 / 0	4	0.3	4	0.3	0	0.0	NONE			NONE								
		Total	5 / 0	254	18.7	254	18.7	0	0.0	NONE			NONE								
Jul 10 13:26	TLR 4	CURRENT	NONE								NONE			NONE				377	575	463	N/A
		NEXT	2-NH	1 / 0	200	13.3	200	13.3	0	0.0	NONE			NONE							
		6-NN	2 / 0	50	5.2	50	5.2	0	0.0	NONE			NONE								
		Total	3 / 0	250	18.5	250	18.5	0	0.0	NONE			NONE								
Jul 10 14:26	TLR 4	CURRENT	NONE								NONE			NONE				395	621	526	N/A
		NEXT	6-NN	2 / 0	50	5.1	50	5.1	0	0.0	NONE			NONE							
		Total	2 / 0	50	5.1	50	5.1	0	0.0	NONE			NONE								
Jul 10 15:18	TLR 5B	CURRENT	7-F	30 / 0	195	17.7	195	17.7	0	0.0	EES	40.0	40.0	NONE		429	709	652	N/A		
		Total	30 / 0	195	17.7	195	17.7	0	0.0	Total	18.0	18.0	58.0								
		NEXT	2-NH	3 / 0	80	6.1	80	6.1	0	0.0	NONE			NONE							
		7-F	27 / 0	174	16.5	174	16.5	0	0.0	NONE			NONE								
		Total	30 / 0	195	22.6	242	22.6	0	0.0	NONE			NONE								
Jul 10 16:27	TLR 5A	NEXT	6-NN	2 / 0	50	4.4	50	4.4	0	0.0	EES	33.0	33.0	NONE		365	552	436	N/A		
		7-F	28 / 0	140	12.9	140	12.9	0	0.0	TVA	15.0	15.0	NONE								
		Total	30 / 0	190	17.3	190	17.3	0	0.0	Total	48.0	48.0	NONE								
Jul 10 17:29	TLR 5A	NEXT	6-NN	2 / 0	50	4.4	50	4.4	0	0.0	EES	26.0	26.0	NONE		368	566	462	N/A		
		7-F	28 / 0	109	10.0	109	10.0	0	0.0	TVA	11.0	12.0	NONE								
		Total	30 / 0	159	14.4	159	14.4	0	0.0	Total	37.0	38.0	NONE								
Jul 10 18:27	TLR 5A	NEXT	6-NN	2 / 0	50	4.3	50	4.3	0	0.0	EES	13.0	13.0	NONE		355	534	418	N/A		
		7-F	19 / 0	50	4.7	50	4.7	0	0.0	TVA	5.0	5.0	NONE								
		Total	21 / 0	100	9.1	100	9.1	0	0.0	Total	18.0	18.0	NONE								
Jul 10 19:28	TLR 5A	NEXT	6-NN	2 / 0	50	4.3	50	4.3	0	0.0	EES	8.0	8.0	NONE		360	587	529	N/A		
		7-F	14 / 0	28	2.7	28	2.7	0	0.0	TVA	4.0	4.0	NONE								
		Total	16 / 0	78	7.0	78	7.0	0	0.0	Total	12.0	12.0	NONE								
Jul 10 20:29	TLR 5A	NEXT	6-NN	1 / 0	50	4.1	50	4.1	0	0.0	EES	8.0	8.0	NONE		368	590	518	N/A		
		7-F	15 / 0	27	2.5	27	2.5	0	0.0	TVA	4.0	4.0	NONE								
		Total	16 / 0	77	6.6	77	6.6	0	0.0	Total	12.0	12.0	NONE								
Jul 10 21:27	TLR 5A	NEXT	7-F	18 / 0	41	3.9	41	3.9	0	0.0	EES	9.0	9.0	NONE		359	578	511	N/A		
		Total	18 / 0	41	3.9	41	3.9	0	0.0	Total	13.0	13.0	NONE								
Jul 10 22:32	TLR 5A	NEXT	2-NH	3 / 0	205	15.9	205	15.9	0	0.0	EES	11.0	11.0	NONE		338	604	620	N/A		
		7-F	16 / 2	55	5.6	55	5.6	74	8.0	TVA	6.0	6.0	NONE								
		Total	19 / 2	260	21.5	260	21.5	74	8.0	Total	17.0	17.0	NONE								
Jul 10 23:29	TLR 5A	NEXT	2-NH	2 / 0	103	8.2	103	8.2	0	0.0	EES	10.0	10.0	NONE		324	565	561	N/A		
		7-F	19 / 0	85	6.7	85	6.7	0	0.0	TVA	5.0	5.0	NONE								
		Total	21 / 0	168	14.8	168	14.8	0	0.0	Total	15.0	15.0	NONE								
Jul 11 00:30	TLR 5A	NEXT	2-NH	2 / 0	102	8.0	102	8.0	0	0.0	EES	4.0	4.0	NONE		280	481	468	N/A		
		7-F	15 / 0	31	3.1	31	3.1	0	0.0	TVA	2.0	2.0	NONE								
		Total	17 / 0	133	11.2	133	11.2	0	0.0	Total	6.0	6.0	NONE								
Jul 11 01:15	TLR 1	CURRENT	NONE								NONE			NONE				238	376	322	N/A
Jul 11 09:21	TLR 4	CURRENT	NONE								NONE			NONE				367	622	595	N/A
		NEXT	NONE								NONE			NONE							
Jul 11 10:28	TLR 4	CURRENT	NONE								NONE			NONE				372	635	612	N/A
		NEXT	NONE								NONE			NONE							
Jul 11 11:29	TLR 5A	NEXT	7-F	21 / 0	134	13.2	134	13.2	0	0.0	EES	28.0	28.0	NONE		395	682	668	N/A		
		Total	21 / 0	134	13.2	134	13.2	0	0.0	Total	41.0	41.0	NONE								
Jul 11 12:28	TLR 5A	NEXT	6-NN	1 / 0	5	0.4	5	0.4	0	0.0	EES	26.0	26.0	NONE		373	598	525	N/A		
		7-F	19 / 0	123	12.1	123	12.1	0	0.0	TVA	13.0	13.0	NONE								
		Total	20 / 0	128	12.5	128	12.5	0	0.0	Total	39.0	39.0	NONE								
Jul 11 13:27	TLR 0	CURRENT	NONE								NONE			NONE				339	535	457	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	2	31	31	0
2	16	1520	1520	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	29	1080	1080	75
7	271	1176	1176	74
Total	318	3807	3807	149

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	216.0	216.0
TVA	100.0	101.0
Total	316.0	317.0