

ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams 500-230 for the loss of McAdams -Lakeover 500 kV)
TLR Level 5: July 13, 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 13, 2009. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 2:39 PM until 6:27 PM on July 13, 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 5a was issued, the Limiting Element was rated at 615 MVA. Flow on the Limiting Element was 386 MVA. Flow on the Contingent Element was 707 MVA. The LODF was approximately 43%. Post-contingent flow on the Limiting Element was approximately 690 MVA.

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

TLRs levels, timing and relief requested amounts are shown on pages 2 and 3.

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.

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 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 Rex Brown 4, Andrus 1, and Baxter Wilson1.

Event History									
Issuing RC:		ICTE							
Flowgate:		1330 - McAdams500-230 for loss of McAdams-Lakeover							
Event Begin:		2009-07-13 08:50							
Event End:		2009-07-13 21:00							
Event Duration:		13 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 1	07/13/2009 08:50	07/13/2009 08:41	07/13/2009 08:40:50	0.0	0.0	0.0	0	0	
TLR Level 4	07/13/2009 11:45	07/13/2009 11:38	07/13/2009 11:38:07	0.0	0.0	0.0	2	131	
TLR Level 4	07/13/2009 12:45	07/13/2009 12:35	07/13/2009 12:34:45	0.0	0.0	0.0	0	0	
TLR Level 5A	07/13/2009 14:00	07/13/2009 13:37	07/13/2009 13:33:36	59.0	0.0	60.6	32	359	
TLR Level 5A	07/13/2009 15:00	07/13/2009 14:38	07/13/2009 14:37:04	22.0	0.0	55.3	32	296	
TLR Level 5A	07/13/2009 16:00	07/13/2009 15:36	07/13/2009 15:34:41	0.0	0.0	25.2	22	241	
TLR Level 5A	07/13/2009 17:00	07/13/2009 16:30	07/13/2009 16:29:28	14.0	0.0	24.7	20	238	
TLR Level 5A	07/13/2009 18:00	07/13/2009 17:28	07/13/2009 17:27:32	0.0	0.0	7.2	2	134	
TLR Level 3A	07/13/2009 19:00	07/13/2009 18:28	07/13/2009 18:27:53	16.0	9.4	6.6	1	125	
TLR Level 3A	07/13/2009 20:00	07/13/2009 19:26	07/13/2009 19:25:55	0.0	0.0	0.0	0	0	
TLR Level 0	07/13/2009 21:00	07/13/2009 20:35	07/13/2009 20:34:58	0.0	0.0	0.0	0	0	

08/04/2009 08:41:00 (CST)
 OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813
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Event Summary

FILE SAVED AS: ICTE_1330_20090713_0850.htm

Incident: ICTE_1330_20090713_0850	Date: 07/13/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of McA...	Rating: 615	LODF: 43.05%
TLR Direction: Normal		
Effective StartTime: 07/13/2009 08:50	Effective EndTime: 07/13/2009 21:00	TLR Duration: 12 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	IDC Cut MW	Relief	RC Cut Acknowledge MW	Relief	Hold MW	Relief	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow	
Jul 13 08:41	TLR 1	CURRENT		NONE								NONE			NONE			382	577	465	N/A
Jul 13 11:38	TLR 4	CURRENT	2-NH Total	2 / 0 2 / 0	131 312	7.0 7.0	131 131	7.0 7.0	0 0	0.0 0.0	NONE			NONE			369	644	641	N/A	
		NEXT	1-NS 2-NH 6-NN 7-F Total	1 / 0 3 / 0 1 / 0 2 / 0 7 / 0	5 135 36 5 312	0.4 7.4 2.1 0.4 10.2	5 135 36 5 181	0.4 7.4 2.1 0.4 10.2	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	NONE			NONE							
Jul 13 12:35	TLR 4	CURRENT		NONE								NONE			NONE			360	627	621	N/A
		NEXT	2-NH 6-NN 7-F Total	3 / 0 1 / 0 2 / 0 6 / 0	177 36 5 218	9.3 2.2 0.4 11.7	177 36 5 218	9.3 2.2 0.4 11.7	0 0 0 0	0.0 0.0 0.0 0.0	NONE			NONE							
Jul 13 13:37	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 1 / 0 28 / 0 32 / 0	143 37 179 359	7.5 2.3 18.8 28.6	143 37 179 359	7.5 2.3 18.8 28.6	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	23.0 9.0 32.0	23.0 9.0 32.0	NONE			386	690	707	N/A	
Jul 13 14:38	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 1 / 0 28 / 0 32 / 0	86 36 174 296	4.8 2.2 18.2 24.9	86 36 174 296	4.8 2.2 18.2 24.9	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	21.0 9.0 30.0	21.0 9.0 30.0	NONE			354	561	481	N/A	
Jul 13 15:36	TLR 5A	NEXT	2-NH 7-F Total	3 / 0 18 / 0 21 / 0	177 59 236	9.3 5.5 14.8	177 58 235	9.3 5.5 14.8	0 0 0	0.0 0.0 0.0	EES TVA Total	7.0 3.0 10.0	7.0 3.0 10.0	NONE			352	536	428	N/A	
Jul 13 16:30	TLR 5A	NEXT	2-NH 7-F Total	3 / 0 16 / 0 19 / 0	180 53 233	9.5 5.1 14.6	180 53 233	9.5 5.1 14.6	0 0 0	0.0 0.0 0.0	EES TVA Total	7.0 3.0 10.0	7.0 3.0 10.0	NONE			379	599	512	N/A	
Jul 13 17:28	TLR 5A	NEXT	2-NH 6-NN Total	1 / 0 1 / 0 2 / 0	125 9 134	6.6 0.7 7.2	125 9 134	6.6 0.7 7.2	0 0 0	0.0 0.0 0.0	NONE			NONE			364	557	449	N/A	
Jul 13 18:28	TLR 3A	NEXT	2-NH Total	1 / 0 1 / 0	125 125	6.6 6.6	125 125	6.6 6.6	0 0	0.0 0.0	NONE			NONE			292	436	336	N/A	
Jul 13 19:26	TLR 3A	NEXT		NONE								NONE			NONE			364	562	460	N/A
Jul 13 20:35	TLR 0	CURRENT		NONE								NONE			NONE			346	503	365	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	1	5	5	0
2	22	1279	1279	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	5	154	154	0
7	94	475	474	0
Total	122	1913	1912	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	58.0	58.0
TVA	24.0	24.0
Total	82.0	82.0