

ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams AT1 500/230 kV for the loss of McAdams - Lakeover 500 kV)
TLR Level 5: February 12, 2010
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 February 12, 2010. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 6:38 AM until 11:26 AM on February 12, 2010. Projected post-contingent flows on the McAdams AT1 500/230 kV 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 343 MVA. Flow on the Contingent Element was 770 MVA. The LODF was approximately 43%. Post-contingent flow on the Limiting Element was approximately 674 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 not 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 generation on Attala 1 and Andrus 1.

Event History								
Issuing RC:		ICTE						
Flowgate:		1330 - McAdams500-230 for loss of McAdams-Lakeover						
Event Begin:		2010-02-12 07:00						
Event End:		2010-02-12 13:25						
Event Duration:		6 Hours						
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 5A	02/12/2010 07:00	02/12/2010 06:41	02/12/2010 06:38:51	66.0	0.0	66.9	26	310
TLR Level 5A	02/12/2010 08:00	02/12/2010 07:30	02/12/2010 07:27:45	20.0	0.0	64.6	24	288
TLR Level 5A	02/12/2010 09:00	02/12/2010 08:36	02/12/2010 08:29:28	0.0	0.0	30.5	18	232
TLR Level 3A	02/12/2010 10:00	02/12/2010 09:29	02/12/2010 09:28:41	45.9	32.2	13.7	2	199
TLR Level 3A	02/12/2010 11:00	02/12/2010 10:36	02/12/2010 10:35:48	67.0	53.3	13.7	2	199
TLR Level 5A	02/12/2010 12:00	02/12/2010 11:28	02/12/2010 11:26:35	28.0	0.0	28.6	19	104
TLR Level 1	02/12/2010 13:00	02/12/2010 12:32	02/12/2010 12:31:31	0.0	0.0	0.0	0	0
TLR Level 0	02/12/2010 13:25	02/12/2010 13:16	02/12/2010 13:15:42	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_1330_20100212_0700.htm

Incident: ICTE_1330_20100212_0700	Date: 02/12/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of McA...	Rating: 615	LODF: 48.28%
TLR Direction: Normal		
Effective StartTime: 02/12/2010 07:00	Effective EndTime: 02/12/2010 13:25	TLR Duration: 6 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 MW	Relief MW	RC Cut Acknowledge MW	Relief MW	Hold MW	Relief MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW		Current	Post Cont.
Feb 12 08:41	TLR 5A	NEXT	2-NH 7-F Total	3 / 0 23 / 0 26 / 0	220 90 310	15.6 7.5 23.2	220 90 310	15.6 7.5 23.2	0 0 0	0.0 0.0 0.0	EES TVA Total	29.0 14.0 43.0	29.0 14.0 43.0	NONE			343	714	770	N/A
Feb 12 07:30	TLR 5A	NEXT	2-NH 7-F Total	2 / 0 22 / 0 24 / 0	199 89 288	13.7 7.4 21.1	199 89 288	13.7 7.4 21.1	0 0 0	0.0 0.0 0.0	EES TVA Total	29.0 14.0 43.0	29.0 14.0 43.0	NONE			311	635	673	N/A
Feb 12 05:35	TLR 5A	NEXT	2-NH 7-F Total	2 / 0 16 / 0 18 / 0	199 33 232	13.7 2.8 16.5	199 33 232	13.7 2.8 16.5	0 0 0	0.0 0.0 0.0	EES TVA Total	10.0 4.0 14.0	10.0 4.0 14.0	NONE			287	600	650	N/A
Feb 12 09:29	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	199 199	13.7 13.7	199 199	13.7 13.7	0 0	0.0 0.0	NONE			NONE			302	632	684	N/A
Feb 12 10:36	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	199 199	13.7 13.7	199 199	13.7 13.7	0 0	0.0 0.0	NONE			NONE			285	580	613	N/A
Feb 12 11:28	TLR 5A	NEXT	2-NH 7-F Total	1 / 0 18 / 0 19 / 0	52 52 104	4.0 4.4 8.4	52 52 104	4.0 4.4 8.4	0 0 0	0.0 0.0 0.0	EES TVA Total	12.0 8.0 20.0	12.0 8.0 20.0	NONE			325	682	741	N/A
Feb 12 12:32	TLR 1	CURRENT				NONE					NONE			NONE			232	442	437	N/A
Feb 12 13:16	TLR 0	CURRENT				NONE					NONE			NONE			375	470	197	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	12	1068	1068	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	79	254	254	0
Total	91	1332	1332	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	80.0	80.0
TVA	40.0	40.0
Total	120.0	120.0