

ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams 500-230 for the loss of McAdams -Lakeover 500 kV)
TLR Level 5: July 2, 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 2, 2009. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 2:52 PM until 5:34 PM on July 2, 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 410 MVA. Flow on the Contingent Element was 609 MVA. The LODF was approximately 43%. Post-contingent flow on the Limiting Element was approximately 672 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.

Transactions SPA_LEPA0005263_LEPA and SPA_LUSPS0003252_LAFA were excluded from curtailment for this TLR. LAFA and LEPA were 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 Rex Brown 4 and Attala 1.

Event History									
Issuing RC:		ICTE							
Flowgate:		1330 - McAdams500-230 for loss of McAdams-Lakeover							
Event Begin:		2009-07-02 13:55							
Event End:		2009-07-02 22:55							
Event Duration:		9 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 5B	07/02/2009 13:55	07/02/2009 13:52	07/02/2009 13:50:30	50.0	0.0	51.1	27	394	
TLR Level 5A	07/02/2009 15:00	07/02/2009 14:43	07/02/2009 14:42:21	64.0	0.0	87.4	32	718	
TLR Level 5A	07/02/2009 16:00	07/02/2009 15:35	07/02/2009 15:33:35	47.0	0.0	80.5	30	657	
TLR Level 5A	07/02/2009 17:00	07/02/2009 16:34	07/02/2009 16:31:32	37.0	0.0	67.7	28	589	
TLR Level 4	07/02/2009 17:50	07/02/2009 17:40	07/02/2009 17:39:00	0.0	0.0	0.0	0	0	
TLR Level 3A	07/02/2009 19:00	07/02/2009 18:30	07/02/2009 18:28:46	12.0	0.0	12.0	2	170	
TLR Level 1	07/02/2009 20:00	07/02/2009 19:36	07/02/2009 19:33:09	0.0	0.0	0.0	0	0	
TLR Level 0	07/02/2009 22:55	07/02/2009 22:32	07/02/2009 22:31:40	0.0	0.0	0.0	0	0	

08/06/2009 12:54:38 (CST)
 OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813
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Event Summary

FILE SAVED AS: ICTE_1330_20090702_1355.htm

Incident: ICTE_1330_20090702_1355	Date: 07/02/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of McA...	Rating: 615	LODF: 42.99%
TLR Direction: Normal		
Effective StartTime: 07/02/2009 13:55	Effective EndTime: 07/02/2009 22:55	TLR Duration: 9 Hours and 0 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 Askn MW	Type	Mkt	IDC MW	RC Askn MW	Current	Post Cont.	Cont. Flow		
					MW	Relief	MW	Relief	MW	Relief												
Jul 02 13:52	TLR 5B	CURRENT	2-NH	1 / 0	200	12.0	200	12.0	0	0.0	EES	16.0	16.0	NONE	NONE	NONE	NONE	410	671	609	N/A	
			6-NN	3 / 0	57	3.7	57	3.7	0	0.0	TVA	6.0	6.0									
			7-F	23 / 0	137	13.0	136	13.0	0	0.0	Total	22.0	22.0									
			Total	27 / 0	394	28.7	393	28.6	0	0.0												
		NEXT	2-NH	4 / 0	247	14.9	247	14.9	0	0.0	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
			6-NN	1 / 0	10	0.7	10	0.7	0	0.0												
			7-F	20 / 0	109	9.6	108	9.5	0	0.0												
			Total	25 / 0	394	25.2	365	25.2	0	0.0												
Jul 02 14:43	TLR 5A	NEXT	2-NH	1 / 0	200	12.0	200	12.0	0	0.0	EES	23.0	23.0	NONE	NONE	NONE	NONE	405	635	536	N/A	
			6-NN	3 / 0	54	3.4	54	3.4	0	0.0	TVA	9.0	9.0									
			7-F	25 / 0	299	29.0	299	29.0	0	0.0	Total	32.0	32.0									
			Total	29 / 0	553	44.5	553	44.5	0	0.0												
Jul 02 15:35	TLR 5A	NEXT	2-NH	1 / 0	200	12.0	200	12.0	0	0.0	EES	21.0	21.0	NONE	NONE	NONE	NONE	378	567	441	N/A	
			6-NN	2 / 0	110	8.1	110	8.1	0	0.0	TVA	9.0	9.0									
			7-F	25 / 0	285	27.9	285	27.9	0	0.0	Total	30.0	30.0									
			Total	28 / 0	595	48.0	595	48.0	0	0.0												
Jul 02 16:34	TLR 5A	NEXT	2-NH	2 / 0	250	14.5	250	14.5	0	0.0	EES	15.0	15.0	NONE	NONE	NONE	NONE	364	529	386	N/A	
			6-NN	1 / 0	103	8.2	103	8.2	0	0.0	TVA	6.0	6.0									
			7-F	25 / 0	236	24.2	236	24.2	0	0.0	Total	21.0	21.0									
			Total	28 / 0	589	46.9	589	46.9	0	0.0												
Jul 02 17:40	TLR 4	CURRENT	NONE								NONE			NONE				349	508	372	N/A	
		NEXT	2-NH	1 / 0	200	12.0	200	12.0	0	0.0	NONE			NONE								
			6-NN	1 / 0	103	7.8	103	7.8	0	0.0												
			Total	2 / 0	303	19.8	303	19.8	0	0.0												
Jul 02 18:30	TLR 3A	NEXT	2-NH	1 / 0	68	4.1	68	4.1	0	0.0	NONE			NONE				328	452	290	N/A	
			Total	1 / 0	68	4.1	68	4.1	0	0.0												
Jul 02 19:36	TLR 1	CURRENT	NONE								NONE			NONE				345	456	259	N/A	
Jul 02 22:32	TLR 0	CURRENT	NONE								NONE			NONE				195	227	76	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	0
1	0	0	0	0	0
2	11	1365	1365	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	11	437	437	0	0
7	118	1066	1064	0	0
Total	140	2868	2866	0	0

TLR NNL Totals

	NNL Relief	
	IDC MW	RC Askn MW
EES	75.0	75.0
TVA	30.0	30.0
Total	105.0	105.0