

ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams 500 - 230 kV for the loss of McAdams - Lakeover 500 kV)
TLR Level 5: April 19, 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 April 19, 2010. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 4:28 PM until 10:30 PM on April 19, 2010. Projected post-contingent flows on the McAdams 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 338 MVA. Flow on the Contingent Element was 744 MVA. The LODF was approximately 45%. Post-contingent flow on the Limiting Element was approximately 673 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 was an El Dorado – Sterlington 500 kV scheduled outage.

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 Baxter Wilson 1.

Event History

Event History									
Issuing RC:		ICTE							
Flowgate:		1330 - McAdams500-230 for loss of McAdams-Lakeover							
Event Begin:		2010-04-19 12:55							
Event End:		2010-04-20 00:55							
Event Duration:		12 Hours							
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts		
							Tags	MW	
TLR Level 1	04/19/2010 12:55	04/19/2010 12:43	04/19/2010 12:42:06	0.0	0.0	0.0	0	0	
TLR Level 3A	04/19/2010 15:00	04/19/2010 14:31	04/19/2010 14:28:56	40.0	0.0	40.2	3	416	
TLR Level 3A	04/19/2010 16:00	04/19/2010 15:26	04/19/2010 15:25:38	65.0	16.6	48.4	1	504	
TLR Level 5A	04/19/2010 17:00	04/19/2010 16:28	04/19/2010 16:27:00	89.0	0.0	90.2	27	162	
TLR Level 5A	04/19/2010 18:00	04/19/2010 17:28	04/19/2010 17:26:19	56.0	0.0	131.4	28	664	
TLR Level 5A	04/19/2010 19:00	04/19/2010 18:42	04/19/2010 18:41:07	2.0	0.0	75.1	22	106	
TLR Level 5A	04/19/2010 20:00	04/19/2010 19:32	04/19/2010 19:29:59	7.0	0.0	74.3	23	100	
TLR Level 5A	04/19/2010 21:00	04/19/2010 20:32	04/19/2010 20:30:08	21.0	0.0	88.0	29	157	
TLR Level 5A	04/19/2010 22:00	04/19/2010 21:35	04/19/2010 21:28:14	5.0	0.0	79.0	20	273	
TLR Level 5A	04/19/2010 23:00	04/19/2010 22:29	04/19/2010 22:26:40	0.0	0.0	43.8	17	236	
TLR Level 1	04/20/2010 00:00	04/19/2010 23:27	04/19/2010 23:26:49	0.0	0.0	0.0	0	0	
TLR Level 0	04/20/2010 00:55	04/20/2010 00:45	04/20/2010 00:44:37	0.0	0.0	0.0	0	0	

Event Summary

FILE SAVED AS: ICTE_1330_20100419_1155.htm

Incident: ICTE_1330_20100419_1155	Date: 04/19/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of McA...	Rating: 615	LODF: 45.91%
TLR Direction: Normal		
Effective StartTime: 04/19/2010 12:55	Effective EndTime: 04/20/2010 00:55	TLR Duration: 12 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 MW	RC Cut Acknowledge MW	Hold MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow					
Apr 19 12:43	TLR 1	CURRENT		NONE								NONE			NONE				328	646	691	N/A
Apr 19 14:31	TLR 3A	NEXT	6-NN 7-F Total	3 / 0 0 / 1 3 / 1	416 0 416	40.2 0.0 40.2	416 0 416	40.2 0.0 40.2	0 39 39	0.0 4.1 4.1	NONE			NONE				327	625	651	N/A	
Apr 19 15:29	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	504 504	48.4 48.4	504 504	48.4 48.4	0 0	0.0 0.0	NONE			NONE				327	627	654	N/A	
Apr 19 16:28	TLR 5A	NEXT	7-F Total	27 / 1 27 / 1	162 162	16.1 16.1	162 162	16.1 16.1	30 30	1.9 1.9	EES TVA Total	61.0 13.0 74.0	61.0 13.0 74.0	NONE				338	679	744	N/A	
Apr 19 17:28	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 27 / 0 28 / 0	504 160 664	43.1 16.0 59.1	504 160 664	43.1 16.0 59.1	0 0 0	0.0 0.0 0.0	EES TVA Total	60.0 12.0 72.0	60.0 12.0 72.0	NONE				311	600	631	N/A	
Apr 19 18:42	TLR 5A	NEXT	7-F Total	22 / 0 22 / 0	106 106	8.8 8.8	106 106	8.8 8.8	0 0	0.0 0.0	EES TVA Total	55.0 11.0 66.0	55.0 11.0 66.0	NONE				301	570	586	N/A	
Apr 19 19:32	TLR 5A	NEXT	7-F Total	23 / 0 23 / 0	100 100	9.1 9.1	100 100	9.1 9.1	0 0	0.0 0.0	EES TVA Total	54.0 11.0 65.0	54.0 11.0 65.0	NONE				311	554	530	N/A	
Apr 19 20:32	TLR 5A	NEXT	7-F Total	29 / 0 29 / 0	157 157	15.0 15.0	157 157	15.0 15.0	0 0	0.0 0.0	EES TVA Total	60.0 13.0 73.0	60.0 13.0 73.0	NONE				333	579	538	N/A	
Apr 19 21:35	TLR 5A	NEXT	6-NN 7-F Total	1 / 1 19 / 0 20 / 1	200 73 273	17.9 8.1 26.0	200 73 273	17.9 8.1 26.0	209 0 209	17.9 0 17.9	EES TVA Total	44.0 9.0 53.0	44.0 9.0 53.0	NONE				314	543	501	N/A	
Apr 19 22:29	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 16 / 0 17 / 0	200 36 236	17.9 3.9 21.8	200 36 236	17.9 3.9 21.8	0 0 0	0.0 0.0 0.0	EES TVA Total	18.0 4.0 22.0	18.0 4.0 22.0	NONE				289	505	472	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	7	1824	1824	209
7	163	794	794	69
Total	170	2618	2618	278

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	352.0	352.0
TVA	73.0	73.0
Total	425.0	425.0

Date	Time	Category	Operator Name	Issue
04/19/10	0913	ICP/LAP Assessment	Heath/Jeremy	Assessed FG 1330 McAdams500-230 for loss of McAdams-Lakeover as ICP PC 90% Notified Thru TRA
04/19/10	1242	TLR - 1	Heath Martin	Issued TLR level 1 on McAdams500-230 for loss of McAdams-Lakeover. Oasis # 250036 Notified EES SOC (Rigo).

04/19/10	1427	TLR - 3a	Heath Martin	Issued TLR level 3a on McAdams500-230 for loss of McAdams-Lakeover. Oasis # 250036 Notified EES SOC (Rigo).
04/19/10	1628	TLR - 5a	Heath Martin	Issued TLR level 5a on McAdams500-230 for loss of McAdams-Lakeover. Oasis # 250036 updated, Notified EES SOC (Rigo) (61NNL). Contacted Kevin at TVA (12.7NNL) and Tuggs at SOCO for SMEE(0.3 NNL).
04/19/10	1642	NNL	Heath/Jeremy	TVA called on the TLR 5a McAdams500-230 for loss of McAdams-Lakeover .The unit they are going to move is Choctaw for 75MW.
04/19/10	1651	NNL	Heath Martin	Doug From SOCO Picking up the Morrow 18, Batesville reduced by 18MW
04/19/10	1730	NNL	Heath/Jeremy	Issued TLR level 5a on McAdams500-230 for loss of McAdams-Lakeover. Oasis # 250036 updated, Notified EES SOC (Rigo) (59.8NNL). Contacted Kevin at TVA (12.1NNL) and Steve Nolan at SOCO for SMEE(0.3 NNL).
04/19/10	1830	TLR - 5a	Garry/David	PC 92%; EES 54.9, notified EES RTA (Roberts); SMEPA 0.3 notified SOCO RC (Al); TVA 11.1, notified TVA RC (Kevin)
04/19/10	1930	TLR - 5a	Garry/David	PC 90%; EES 54.0, notified EES RTA (Roberts); TVA 11.0, notified TVA RC (Kevin); SMEE .3
04/19/10	2030	TLR - 5a	Garry/David	PC 94%; EES 59.8, notified EES RTA (Roberts); TVA 12.9, notified TVA RC (Kevin); SMEE .3
04/19/10	2130	TLR - 5a	Garry/David	PC 88%; EES 43.5, notified EES RTA (Roberts); SMEPA 0.2 notified SOCO RC (Steve); TVA 9.2, notified TVA RC (Kevin)
04/19/10	2230	TLR - 5a	Garry/David	PC 82%; EES 18.1, notified EES RTA (Roberts); SMEPA 0.1 notified SOCO RC (Steve); TVA 3.7, notified TVA RC (Kevin)
04/19/10	2326	TLR - 1	Garry/David	PC 71%; Effective @ 0000, notified EES, TVA, SOCO
04/20/10	2319	TLR - 0	Garry/David	PC 79% closed posting notified EES