

ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams AT1 500/230 kV for the loss of McAdams - Lakeover 500 kV)
TLR Level 5: May 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 May 19, 2010. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 8:39 PM until 11:29 PM on May 19, 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 320 MVA. Flow on the Contingent Element was 884 MVA. The LODF was approximately 41%. Post-contingent flow on the Limiting Element was approximately 682 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. Nelson 6 was in a planned 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 Perryville and Attala 1.

Event History

Event History									
Issuing RC:		ICTE							
Flowgate:		1330 - McAdams500-230 for loss of McAdams-Lakeover							
Event Begin:		2010-05-19 20:00							
Event End:		2010-05-20 00:45							
Event Duration:		4 Hours							
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts		
							Tags	MW	
TLR Level 5A	05/19/2010 20:00	05/19/2010 19:39	05/19/2010 19:38:32	72.0	0.0	73.3	39	308	
TLR Level 5A	05/19/2010 21:00	05/19/2010 20:37	05/19/2010 20:36:35	19.0	0.0	68.5	34	556	
TLR Level 5A	05/19/2010 22:00	05/19/2010 21:38	05/19/2010 21:37:10	58.0	0.0	84.9	36	633	
TLR Level 5A	05/19/2010 23:00	05/19/2010 22:29	05/19/2010 22:28:05	6.0	0.0	42.3	22	397	
TLR Level 1	05/19/2010 23:45	05/19/2010 23:36	05/19/2010 23:35:55	0.0	0.0	0.0	0	0	
TLR Level 0	05/20/2010 00:45	05/20/2010 00:24	05/20/2010 00:24:42	0.0	0.0	0.0	0	0	

Excel

Event Summary

FILE SAVED AS: ICTE_1330_20100519_2000.htm

Incident: ICTE_1330_20100519_2000	Date: 05/19/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of MCA...	Rating: 615	LODF: 42.03%
TLR Direction: Normal		
Effective StartTime: 05/19/2010 20:00	Effective EndTime: 05/20/2010 00:45	TLR Duration: 4 Hours and 45 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	CA	IDC MW	RC Askn MW	Type	Mkt	IDC MW	RC Askn MW	Current		Post Cont.
May 19 19:39	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 2 / 0 36 / 0 39 / 0	26 15 267 308	1.4 0.9 22.8 25.1	26 15 267 308	1.4 0.9 22.8 25.1	0 0 0 0	0.0 0.0 0.0 0.0	EES SMEE TVA Total	30.0 3.0 15.0 48.0	30.0 3.0 15.0 48.0	NONE		320	691	884	N/A
May 19 20:37	TLR 5A	NEXT	7-F Total	29 / 0 29 / 0	156 156	13.4 13.4	156 156	13.4 13.4	0 0	0.0 0.0	EES SMEE TVA Total	16.0 2.0 8.0 26.0	16.0 2.0 8.0 26.0	NONE		240	540	714	N/A
May 19 21:38	TLR 5A	NEXT	7-F Total	31 / 0 31 / 0	233 233	19.7 19.7	233 233	19.7 19.7	0 0	0.0 0.0	EES SMEE TVA Total	22.0 3.0 12.0 37.0	22.0 3.0 12.0 37.0	NONE		255	646	931	N/A
May 19 22:29	TLR 5A	NEXT	7-F Total	19 / 0 19 / 0	70 70	5.7 5.7	70 70	5.7 5.7	0 0	0.0 0.0	EES SMEE TVA Total	7.0 1.0 4.0 12.0	7.0 1.0 4.0 12.0	NONE		231	579	828	N/A
May 19 23:36	TLR 1	CURRENT				NONE								NONE		169	475	730	N/A
May 20 00:24	TLR 0	CURRENT				NONE								NONE		183	506	770	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	1	26	26	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	2	15	15	0
7	115	726	726	0
Total	118	767	767	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Askn MW
EES	75.0	75.0
SMEE	9.0	9.0
TVA	39.0	39.0
Total	123.0	123.0

Date	Time	Category	Operator Name	Issue
05/19/10	2035	Flow Gate Assessment	Monte/Scott	assessed FG 1330 PC 111% EES notified
05/19/10	2039	TLR - 5a	Monte/Scott	Issued TLR 5a PC 109% EES notified REF# 258959 EES NNL: 29.9, SMEE NNL 3.0, TVA NNL: 15.4

05/19/10	2040	TLR - 5a	Monte/Scott	Called EES SOC supervisor to request the transmission operator (Walter) to identify any known redispatch option that are available to the transmission customer that will mitigate the loading on the Constrained Facilities which are FG 1330 McAdams500-230 for loss of McAdams-Lakeover. Walter stated that there is no redispatch at this time.
05/19/10	2100	TLR - 5a	Monte/Scott	Doug SOCO Rc called to inform of SMEE's NNL: was provided by the Morrow #2 unit for 5mws, Mosel unit for 13mws and decreased the Batesville unit by 18mws. Also, DOUG SOCO Rc requested TAG MAY1648 to be excluded for reliability on next hours re-issue of TLR.
05/19/10	2120	TLR - 5a	Monte/Scott	TVA RC (Brent) called to inform TVA NNL achieved by Caldonia decreasing by 250 MW's,
05/19/10	2136	TLR - 5a	Monte/Scott	Reissued TLR 5A on FG 1330 PC 87%, EES NNL:15.6, SMEE NNL:1.7, TVA NNL:8.2
05/19/10	2238	TLR - 5a	Monte/Scott	Re-issued TLR 5a PC 103% EES NNL: 21.5, SMEE NNL: 2.6, TVA NNL: 11.5 called EES SOC (Walter to confirm no new internal non-firm schedules.
05/20/10	0036	TLR - 1	Monte/Scott	Issued TLR 1 to end TLR 5 PC 76% EES notified.
05/20/10	0124	TLR - 0	Monte/Scott	Issued TLR 0 to end TLR 1 ended REF#258959