

ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams AT1 500/230 kV for the loss of McAdams - Lakeover 500 kV)
TLR Level 5: May 21, 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 21, 2010. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 4:20 PM until 6:28 PM on May 21, 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 5b was issued, the Limiting Element was rated at 615 MVA. Flow on the Limiting Element was 281 MVA. Flow on the Contingent Element was 975 MVA. The LODF was approximately 41%. Post-contingent flow on the Limiting Element was approximately 681 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. Grand Gulf and Nelson 6 were 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, included below.

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 Andrus 1, Rex Brown 4, Amite South generation and Attala 1.

Event History

Issuing RC: ICTE									
Flowgate: 1330 - McAdams500-230 for loss of McAdams-Lakeover									
Event Begin: 2010-05-21 15:00									
Event End: 2010-05-21 18:40									
Event Duration: 3 Hours									
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts		
							Tags	MW	
TLR Level 3A	05/21/2010 15:00	05/21/2010 14:27	05/21/2010 14:26:10	60.0	40.8	19.2	7	276	
TLR Level 5B	05/21/2010 15:45	05/21/2010 15:20	05/21/2010 15:19:00	75.0	0.0	76.3	31	219	
TLR Level 5A	05/21/2010 17:00	05/21/2010 16:28	05/21/2010 16:26:18	14.0	0.0	73.3	29	228	
TLR Level 5A	05/21/2010 18:00	05/21/2010 17:30	05/21/2010 17:28:53	0.0	0.0	36.8	26	112	
TLR Level 0	05/21/2010 18:40	05/21/2010 18:28	05/21/2010 18:28:04	0.0	0.0	0.0	0	0	

Event Summary

FILE SAVED AS: ICTE_1330_20100521_1500.htm

Incident: ICTE_1330_20100521_1500	Date: 05/21/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of McA...	Rating: 615	LODF: 41.37%
TLR Direction: Normal		
Effective StartTime: 05/21/2010 15:00	Effective EndTime: 05/21/2010 18:40	TLR Duration: 3 Hours and 40 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 Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow		
					MW	Relief	MW	Relief	MW	Relief												
May 21 14:27	TLR 3A	NEXT	1-NS 2-NH 6-NN Total	2 / 0 2 / 0 3 / 0 7 / 0	150 83 43 276	9.8 6.4 3.0 19.2	150 83 43 276	9.8 6.4 3.0 19.2	0 0 0 0	0.0 0.0 0.0 0.0	NONE			NONE			258	605	840	N/A		
May 21 15:20	TLR 5B	CURRENT	7-F Total	31 / 0 31 / 0	219 219	17.9 17.9	219 219	17.9 17.9	0 0	0.0 0.0	EES SMEE TVA Total	38.0 4.0 17.0 59.0	38.0 4.0 17.0 59.0	NONE			281	684	975	N/A		
		NEXT	1-NS 7-F Total	1 / 0 28 / 0 27 / 0	50 223 273	4.0 18.4 22.4	50 223 273	4.0 18.4 22.4	0 0 0	0.0 0.0 0.0	NONE			NONE								
May 21 16:28	TLR 5A	NEXT	7-F Total	29 / 0 29 / 0	228 228	18.5 18.5	206 206	16.9 16.9	0 0	0.0 0.0	EES SMEE TVA Total	35.0 3.0 17.0 55.0	35.0 4.0 17.0 56.0	NONE			256	585	797	N/A		
May 21 17:30	TLR 5A	NEXT	7-F Total	26 / 0 26 / 0	112 112	9.2 9.2	112 112	9.2 9.2	0 0	0.0 0.0	EES SMEE TVA Total	18.0 2.0 8.0 28.0	18.0 2.0 8.0 28.0	NONE			234	527	709	N/A		
May 21 18:28	TLR 0	CURRENT				NONE					NONE			NONE			206	438	561	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	3	200	200	0
2	2	83	83	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	3	43	43	0
7	112	782	780	0
Total	120	1108	1086	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	91.0	91.0
SMEE	9.0	10.0
TVA	42.0	42.0
Total	142.0	143.0

Date	Time	Category	Operator Name	Issue
05/21/10	1524	Flow Gate Assessment	Dewayne/Keith	Assessed as ICP, PC 97%
05/21/10	1530	TLR - 3a	Dewayne/Keith	PC 98%, issued TLR 3a, ref 259545. No internal non-firm schedules eligible for curtailment
05/21/10	1620	TLR - 5b	Dewayne/Keith	TLR 5B issued PC 111% no internal non-firm identified for curtailment. EES NNL 37.5, SME 3.5, TVA 17.3. TVA(Cliff) DEC Caledonia 283MWs (AI) SOCO INC Silver Creek

05/21/10	1730	TLR - 5a	Dewayne/Keith	TLR 5a issued PC 95% no internal non-firm identified for curtailment. EES NNL 34.6, SME 3.5, TVA 16.6. (AI) SOCO INC Silver Creek, holding for same NNL from last hour
05/21/10	1928	TLR - 0	Wayne Johnson	Issued TLR 0, PC 71%