

ICTE TLR 5 Investigation Report
Flowgate 16373
(McAdams - Pickens 230 kV for the loss of McAdams - Lakeover 500 kV)
TLR Level 5: May 18, 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 16373 on May 18, 2010. Flowgate 16373 is an Entergy flowgate. The TLR 5 was in effect from 1:48 PM until 5:28 PM on May 18, 2010. Projected post-contingent flows on the McAdams - Pickens 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 462 MVA. Flow on the Limiting Element was 216 MVA. Flow on the Contingent Element was 1028 MVA. The LODF was approximately 27%. Post-contingent flow on the Limiting Element was approximately 498 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 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, 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 Rex Brown 4.

Event History									
Issuing RC:		ICTE							
Flowgate:		16373 - McAdams-Pickens 230kV ftlo McAdams-Lakeover 500kV							
Event Begin:		2010-05-18 12:55							
Event End:		2010-05-18 20:45							
Event Duration:		8 Hours							
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts		
							Tags	MW	
TLR Level 5B	05/18/2010 12:55	05/18/2010 12:51	05/18/2010 12:48:51	70.0	0.0	70.9	29	463	
TLR Level 5B	05/18/2010 13:45	05/18/2010 13:37	05/18/2010 13:35:42	0.0	0.0	0.0	0	0	
TLR Level 5B	05/18/2010 14:40	05/18/2010 14:29	05/18/2010 14:29:02	0.0	0.0	0.0	0	0	
TLR Level 5A	05/18/2010 16:00	05/18/2010 15:31	05/18/2010 15:30:40	0.0	0.0	27.6	26	132	
TLR Level 5A	05/18/2010 17:00	05/18/2010 16:29	05/18/2010 16:28:18	0.0	0.0	0.0	0	0	
TLR Level 1	05/18/2010 18:00	05/18/2010 17:35	05/18/2010 17:35:06	0.0	0.0	0.0	0	0	
TLR Level 0	05/18/2010 20:45	05/18/2010 20:29	05/18/2010 20:28:52	0.0	0.0	0.0	0	0	

Event Summary

FILE SAVED AS: ICTE_16373_20100518_1255.htm

Incident: ICTE_16373_20100518_1255	Date: 05/18/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 16373 - McAdams-Pickens 230kV fto McA...	Rating: 462	LODF: 27.96%
TLR Direction: Normal		
Effective StartTime: 05/18/2010 12:55	Effective EndTime: 05/18/2010 20:45	TLR Duration: 7 Hours and 50 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								NNL Relief			Market Relief		Flow		Cont. 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		
MAY 18 12:51	TLR 5B	CURRENT	6-NN	2 / 0	200	12.3	200	12.3	0	0.0	EES	30.0	30.0	NONE	NONE	216	503	1028	N/A	
			7-F	27 / 0	263	17.8	263	17.8	0	0.0	SMEE	4.0	4.0							TVA
MAY 18 13:37	TLR 5B	CURRENT	NONE																	
			2-NH	1 / 0	100	8.2	100	8.2	0	0.0	NONE			NONE		204	470	954	N/A	
6-NN	2 / 1	250	15.0	250	15.0	100	6.8	NONE			NONE		Total	41.0	41.0					
MAY 18 14:29	TLR 5B	CURRENT	NONE																	
			2-NH	1 / 0	100	8.2	100	8.2	0	0.0	NONE			NONE		199	453	911	N/A	
7-F	23 / 1	264	17.4	264	17.4	100	5.1	NONE			NONE		Total	41.0	41.0					
MAY 18 15:31	TLR 5A	NEXT	7-F	26 / 0	132	9.0	132	9.0	0	0.0	EES	14.0	14.0	NONE	NONE	183	394	755	N/A	
			7-F	26 / 0	132	9.0	132	9.0	0	0.0	SMEE	2.0	2.0							TVA
MAY 18 16:29	TLR 5A	NEXT	NONE																	
MAY 18 17:36	TLR 1	CURRENT	NONE																	
MAY 18 20:29	TLR 0	CURRENT	NONE																	

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	4	400	400	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	6	484	484	100
7	125	1288	1288	100
Total	134	2172	2172	200

TLR NNL Totals

	NNL Relief	
	IDC MW	RC Ackn MW
EES	106.0	106.0
SMEE	14.0	15.0
TVA	21.0	21.0
Total	141.0	142.0

Date	Time	Category	Operator Name	Issue
05/18/10	1318	Flow Gate Assessment	Wayne Johnson	Assessed as ICP, PC 105%, EES notified

05/18/10	1348	TLR - 5b	Wayne Johnson	<p>Issued TLR 5B, PC 108%, Ref 258537, NNL: EES 30.3, SMEE 4.5, TVA 6.1. As provided in the email to the Shift Supervisor, the ICT RC has issued a TLR Level 5B on Flowgate 16373 McAdams-Pickens 230kV fto McAdams-Lakeover 500kV. At this time Entergy is instructed to curtail the non-firm portion of the following Schedules MAY1589, JEFF009 and 0045115. These curtailments should remain in place until the TLR level is reduced below a TLR Level 3. SMEE informed that they could only do NNL of 3.3 due to lack of available generation. I informed that that would be fine. TVA said that they would be moving Caladonia unit down 218mws.</p>
05/18/10	1435	TLR - 5b	Wayne Johnson	<p>Reissued TLR 5B, PC 101%, NNL: EES 30.6, SMEE 4.3, TVA 6. Had all entities hold generation at current levels.</p>
05/18/10	1529	TLR - 5b	Wayne Johnson	<p>Reissued TLR 5B, PC 101%, NNL: EES 30.5, SMEE 4.3, TVA 6.1. Had all entities hold generation at current levels.</p>
05/18/10	1630	TLR - 5a	Wayne Johnson	<p>Reissued TLR 5A, PC 84%, NNL: EES 13.6, SMEE 2, TVA 2.9. Had SMEE hold generation at current levels to make up for NNL deficiency for previous hrs. Also excluded tag 1549 per request of SOCO RC for pro-capacity reasons.</p>
05/18/10	1728	TLR - 5a	Wayne Johnson	<p>Reissued TLR 5A, PC 86%, NNL: EES 0, SMEE 0, TVA 0.</p>
05/18/10	1835	TLR - 1	Monte/Scott	<p>Issued TLR 1 on FG 16373 PC-83% EES notified.</p>
05/18/10	1845	TLR - 1	Monte/Scott	<p>Informed EES (Bellot) that all non-firm tags being curtailed due to the TLR 5A on FG 16373 can now be reloaded since the TLR has been reduced to a level 1.</p>
05/18/10	2129	TLR - 0	Monte/Scott	<p>Issued TLR 0 to end TLR EES notified ended REF# 258537</p>