

ICTE TLR 5 Investigation Report
Flowgate 16288
Marshall - Botkinburg (aecc) 161 kV for the loss of Dardanelle Dam - Russellville
South 161 kV
TLR Level 5: April 6, 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 16288 on April 6, 2010. Flowgate 16288 is an Entergy flowgate. The TLR 5 was in effect from 8:25 PM until 9:30 PM on April 6, 2010. Projected post-contingent flows on the Marshall - Botkinburg (aecc) 161 kV line for the loss of the Dardanelle Dam - Russellville South 161 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 167 MVA. Flow on the Limiting Element was 152 MVA. Flow on the Contingent Element was 202 MVA. The LODF was approximately 15%. Post-contingent flow on the Limiting Element was approximately 182 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. ANO 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 are kept on file. These screen shots are not being provided to reduce the size of this report.

14. Re-dispatch actions taken.

Entergy did not have any NNL obligation.

Event History

Issuing RC: ICTE								
Flowgate: 16288 - Marshall-Botkinburg 161kv ftlo Dardanelle Dam-Russelville S. 161kv								
Event Begin: 2010-04-06 19:00								
Event End: 2010-04-07 00:00								
Event Duration: 5 Hours								
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 1	04/06/2010 19:00	04/06/2010 18:58	04/06/2010 18:58:33	0.0	0.0	0.0	0	0
TLR Level 5A	04/06/2010 21:00	04/06/2010 20:27	04/06/2010 20:25:44	29.0	0.0	29.5	16	163
TLR Level 5A	04/06/2010 22:00	04/06/2010 21:38	04/06/2010 21:34:06	17.0	0.0	26.4	15	142
TLR Level 1	04/06/2010 23:00	04/06/2010 22:26	04/06/2010 22:26:13	0.0	0.0	0.0	0	0
TLR Level 0	04/07/2010 00:00	04/06/2010 23:53	04/06/2010 23:53:23	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_16288_20100406_1800.htm

Incident:	ICTE_16288_20100406_1800	Date: 04/06/2010 (CDT)	Reliability Coordinator: ICTE
Initial Conditions:	N/A		
Flowgate:	16288 - Marshall-Botkinburg 161kv ftlo...	Rating: 167	LODF: 14.80%
TLR Direction:	Normal		
Effective StartTime:	04/06/2010 19:00 (CDT)	Effective EndTime: 04/07/2010 00:00 (CDT)	TLR Duration: 5 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 06 18:58 (CDT)	TLR 1	CURRENT		NONE								NONE			NONE			149	178	199	N/A
Apr 06 20:27 (CDT)	TLR 5A	NEXT	6-NN 7-F	1 / 3 15 / 1	4 159	0.8 20.0	4 159	0.8 20.0	65 6	10.1 0.9	SPA	9.0	9.0	NONE			152	181	202	N/A	
			Total	16 / 4	163	20.8	163	20.8	71	11.1	Total	9.0	9.0								
Apr 06 21:38 (CDT)	TLR 5A	NEXT	7-F	15 / 1	142	18.0	142	18.0	4	0.6	SPA	8.0	8.0	NONE			147	177	207	N/A	
			Total	15 / 1	142	18.0	142	18.0	4	0.6	Total	8.0	8.0								
Apr 06 22:20 (CDT)	TLR 1	CURRENT		NONE								NONE			NONE			102	122	140	N/A
Apr 06 23:53 (CDT)	TLR 0	CURRENT		NONE								NONE			NONE			96	116	137	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	1	4	4	65
7	30	301	301	10
Total	31	305	305	75

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
SPA	17.0	17.0
Total	17.0	17.0