

ICTE TLR 5 Investigation Report
Flowgate 15008
(Nelson AT1 500/230 kV for the loss of Hartburg-Cypress 500 kV)
TLR Level 5: October 10, 2008
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 15008 on October 10, 2008. Flowgate 15008 is an Entergy flowgate. The TLR 5 was in effect from 7:35 PM until 10:29 PM CST on October 10, 2008. Projected post-contingent flows on the Nelson AT1 500/230 kV line for the loss of the Hartburg-Cypress 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 616 MVA. Flow on the Limiting Element was 499 MVA. Flow on the Contingent Element was 687 MVA. The LODF was approximately 28%. Post-contingent flow on the Limiting Element was approximately 689 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.

Nelson 6 was in an unplanned 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 by moving generation on Nelson 3 and 4.

Event History									
Issuing RC:		ICTE							
Flowgate:		15008 - Nelson XF 500/230 ftlo Cyress-Hartburg 500 kv							
Event Begin:		2008-10-10 10:25							
Event End:		2008-10-10 22:40							
Event Duration:		12 Hours							
TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts		
							Tags	MW	
TLR Level 1	10/10/2008 10:25	10/10/2008 10:16	10/10/2008 10:15:53	0.0	0.0	0.0	0	0	
TLR Level 4	10/10/2008 14:30	10/10/2008 14:19	10/10/2008 14:19:23	0.0	0.0	0.0	1	170	
TLR Level 4	10/10/2008 15:50	10/10/2008 15:39	10/10/2008 15:39:26	0.0	0.0	0.0	0	0	
TLR Level 4	10/10/2008 16:55	10/10/2008 16:29	10/10/2008 16:28:48	0.0	0.0	0.0	0	0	
TLR Level 4	10/10/2008 17:40	10/10/2008 17:28	10/10/2008 17:28:24	0.0	0.0	0.0	0	0	
TLR Level 5A	10/10/2008 19:00	10/10/2008 18:35	10/10/2008 18:35:04	96.0	0.0	96.0	20	395	
TLR Level 5A	10/10/2008 20:00	10/10/2008 19:33	10/10/2008 19:33:21	0.0	0.0	68.3	20	352	
TLR Level 5A	10/10/2008 21:00	10/10/2008 20:30	10/10/2008 20:30:29	4.0	0.0	51.8	17	319	
TLR Level 5A	10/10/2008 22:00	10/10/2008 21:29	10/10/2008 21:29:20	0.0	0.0	0.0	0	0	
TLR Level 0	10/10/2008 22:40	10/10/2008 22:30	10/10/2008 22:30:16	0.0	0.0	0.0	0	0	

10/21/2008 12:37:34 (CST)
 OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813
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Event Summary

FILE SAVED AS: ICTE_15008_20081010_1025.htm

Incident: ICTE_15008_20081010_1025	Date: 10/10/2008	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 15008 - Nelson XF 500/230 fto Cyress...	Rating: 560	LODF: 27.63%
TLR Direction: Normal		
Effective StartTime: 10/10/2008 10:25	Effective EndTime: 10/10/2008 22:40	TLR Duration: 12 Hours and 15 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												
Oct 10 10:16	TLR 1	CURRENT		NONE								NONE			NONE				446	620	633	N/A
Oct 10 14:10	TLR 4	CURRENT	6-NN Total	1 / 0 1 / 0	170 428	8.9 8.9	170 170	8.9 8.9	0 0	0.0 0.0	NONE			NONE				484	671	680	N/A	
		NEXT	6-NN Total	1 / 0 1 / 0	258 428	13.5 13.5	258 258	13.5 13.5	0 0	0.0 0.0	NONE			NONE								
Oct 10 15:39	TLR 4	CURRENT		NONE								NONE			NONE				481	669	683	N/A
		NEXT	6-NN Total	1 / 0 1 / 0	258 258	13.5 13.5	258 258	13.5 13.5	0 0	0.0 0.0	NONE			NONE								
Oct 10 16:29	TLR 4	CURRENT		NONE								NONE			NONE				483	673	688	N/A
		NEXT	6-NN Total	1 / 0 1 / 0	258 258	13.8 13.8	258 258	13.8 13.8	0 0	0.0 0.0	NONE			NONE								
Oct 10 17:28	TLR 4	CURRENT		NONE								NONE			NONE				498	688	684	N/A
		NEXT	6-NN Total	1 / 0 1 / 0	258 258	13.8 13.8	258 258	13.8 13.8	0 0	0.0 0.0	NONE			NONE								
Oct 10 18:36	TLR 5A	NEXT	6-NN	1 / 0	258	13.5	258	13.5	0	0.0	CLEC	2.0	2.0	NONE		499	688	687	N/A			
			7-F Total	10 / 0 20 / 0	137 395	10.5 24.0	137 395	10.5 24.0	0 0	0.0 0.0	EES LAGN Total	63.0 7.0 72.0	63.0 8.0 73.0									
Oct 10 19:33	TLR 5A	NEXT	6-NN	1 / 0	258	13.5	258	13.5	0	0.0	CLEC	1.0	1.0	NONE		394	584	688	N/A			
			7-F Total	10 / 0 20 / 0	94 352	7.2 20.7	94 352	7.2 20.7	0 0	0.0 0.0	EES LAGN Total	41.0 5.0 47.0	41.0 5.0 47.0									
Oct 10 20:30	TLR 5A	NEXT	6-NN	1 / 0	258	13.4	258	13.4	0	0.0	CLEC	1.0	1.0	NONE		388	575	678	N/A			
			7-F Total	16 / 0 17 / 0	81 319	4.8 18.0	81 319	4.8 18.0	0 0	0.0 0.0	EES LAGN Total	29.0 4.0 34.0	29.0 4.0 34.0									
Oct 10 21:29	TLR 5A	NEXT		NONE								NONE			NONE				342	508	604	N/A
Oct 10 22:30	TLR 0	CURRENT		NONE								NONE			NONE				382	539	560	N/A

TLR Schedule Totals

Priority	Total Tags Cut / Hold	Schedule			
		IDC Cut MW	RC Cut Acknowledge MW	Hold MW	
0	0	0	0	0	0
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	8	1976	1976	0	0
7	54	292	292	0	0
Total	62	2268	2268	0	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
CLEC	4.0	4.0
EES	133.0	133.0
LAGN	16.0	17.0
Total	153.0	154.0