

ICTE TLR 5 Investigation Report
Flowgate 16031
(Mt Olive - Hartburg 500 kV for the loss of Coly - McKnight 500 kV)
TLR Level 5: October 14, 2009
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 16031 on October 14, 2009. Flowgate 16031 is an Entergy flowgate. The TLR 5 was in effect from 1:34 PM until 7:25 PM on October 14, 2009. Projected post-contingent flows on the Mt Olive - Hartburg 500 kV line for the loss of the Coly - McKnight 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 1050 MVA. Flow on the Limiting Element was 876 MVA. Flow on the Contingent Element was 1384 MVA. The LODF was approximately 24%. Post-contingent flow on the Limiting Element was approximately 1205 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.

Fancy McKnight 500 kV line was in an 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 Sabine 4 and 5 and Nelson 4.

Event History

Issuing RC:		ICTE							
Flowgate:		16031 - Mt Olive - Hartburg 500kV ftlo McKnight - Coiy 500kV							
Event Begin:		2009-10-14 12:15							
Event End:		2009-10-14 20:35							
Event Duration:		8 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 3A	10/14/2009 12:15	10/14/2009 11:50	10/14/2009 11:49:20	89.0	86.2	2.8	1	52	
TLR Level 5A	10/14/2009 13:00	10/14/2009 12:37	10/14/2009 12:34:30	99.0	0.0	102.1	31	155	
TLR Level 5A	10/14/2009 14:00	10/14/2009 13:31	10/14/2009 13:28:46	166.0	0.0	233.7	40	434	
TLR Level 5A	10/14/2009 15:00	10/14/2009 14:30	10/14/2009 14:28:31	92.0	0.0	239.0	41	442	
TLR Level 5A	10/14/2009 16:00	10/14/2009 15:31	10/14/2009 15:28:35	122.0	0.0	271.4	40	497	
TLR Level 5A	10/14/2009 17:00	10/14/2009 16:32	10/14/2009 16:28:33	85.0	0.0	253.4	38	477	
TLR Level 5A	10/14/2009 18:00	10/14/2009 17:37	10/14/2009 17:32:07	10.0	0.0	163.8	34	341	
TLR Level 5A	10/14/2009 19:00	10/14/2009 18:28	10/14/2009 18:25:52	0.0	0.0	41.0	26	156	
TLR Level 4	10/14/2009 19:40	10/14/2009 19:27	10/14/2009 19:26:22	0.0	0.0	0.0	0	0	
TLR Level 0	10/14/2009 20:35	10/14/2009 20:26	10/14/2009 20:26:07	0.0	0.0	0.0	0	0	

11/16/2009 11:07:45 (CST)
 OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813
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Event Summary

FILE SAVED AS: ICTE_16031_20091014_1215.htm

Incident:	ICTE_16031_20091014_1215	Date: 10/14/2009	Reliability Coordinator: ICTE
Initial Conditions:	N/A		
Flowgate:	16031 - Mt Olive - Hartburg 500kV fto...	Rating: 1050	LODF: 24.55%
TLR Direction:	Normal		
Effective StartTime:	10/14/2009 12:15	Effective EndTime: 10/14/2009 20:35	TLR Duration: 8 Hours and 20 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	MW	Relief											
Oct 14 11:50	TLR 3A	NEXT	2-NH	1 / 0	52	2.8	52	2.8	0	0.0	NONE			NONE			837	1184	1414	N/A		
			Total	1 / 0	52	2.8	52	2.8	0	0.0												
Oct 14 12:37	TLR 5A	NEXT	7-F	31 / 0	155	38.4	155	38.4	0	0.0	CLEC	2.0	2.0	NONE			878	1215	1384	N/A		
			Total	31 / 0	155	38.4	155	38.4	0	0.0	EES	62.0	62.0									
			Total	31 / 0	155	38.4	155	38.4	0	0.0	Total	64.0	64.0									
Oct 14 13:31	TLR 5A	NEXT	2-NH	2 / 0	98	5.2	98	5.2	0	0.0	CLEC	4.0	4.0	NONE			901	1257	1452	N/A		
			7-F	38 / 0	338	86.0	338	86.0	0	0.0	CSWS	1.0	1.0									
			Total	40 / 0	434	91.1	434	91.1	0	0.0	EES	138.0	139.0									
			Total	40 / 0	434	91.1	434	91.1	0	0.0	Total	143.0	144.0									
Oct 14 14:30	TLR 5A	NEXT	2-NH	2 / 0	97	5.1	97	5.1	0	0.0	CLEC	4.0	4.0	NONE			906	1128	1313	N/A		
			7-F	39 / 0	345	88.7	345	88.7	0	0.0	CSWS	1.0	1.0									
			Total	41 / 0	442	93.8	442	93.8	0	0.0	EES	141.0	141.0									
			Total	41 / 0	442	93.8	442	93.8	0	0.0	Total	146.0	146.0									
Oct 14 15:31	TLR 5A	NEXT	2-NH	2 / 0	97	5.1	97	5.1	0	0.0	CLEC	4.0	4.0	NONE			927	1152	1327	N/A		
			7-F	38 / 0	400	101.7	400	101.7	0	0.0	CSWS	1.0	1.0									
			Total	40 / 0	497	106.8	497	106.8	0	0.0	EES	160.0	160.0									
			Total	40 / 0	497	106.8	497	106.8	0	0.0	Total	165.0	165.0									
Oct 14 16:32	TLR 5A	NEXT	2-NH	2 / 2	97	5.1	97	5.1	54	2.8	CLEC	4.0	4.0	NONE			880	958	1125	N/A		
			7-F	36 / 0	380	97.6	380	97.6	0	0.0	CSWS	1.0	1.0									
			Total	38 / 2	477	102.7	477	102.7	54	2.8	EES	146.0	146.0									
			Total	38 / 2	477	102.7	477	102.7	54	2.8	Total	151.0	151.0									
Oct 14 17:37	TLR 5A	NEXT	2-NH	2 / 0	98	5.1	98	5.1	0	0.0	CLEC	2.0	3.0	NONE			584	842	1055	N/A		
			7-F	32 / 0	243	62.0	243	62.0	0	0.0	EES	94.0	94.0									
			Total	34 / 0	341	67.2	341	67.2	0	0.0	Total	96.0	97.0									
Oct 14 18:28	TLR 5A	NEXT	2-NH	2 / 0	97	5.1	97	5.1	0	0.0	CLEC	0.0	1.0	NONE			646	918	1112	N/A		
			7-F	24 / 0	59	14.9	59	14.9	0	0.0	EES	21.0	21.0									
			Total	26 / 0	156	19.9	156	19.9	0	0.0	Total	21.0	22.0									
Oct 14 19:27	TLR 4	CURRENT	NONE																611	871	1060	N/A
		NEXT	2-NH	2 / 0	99	5.2	99	5.2	0	0.0	NONE			NONE								
			Total	2 / 0	99	5.2	99	5.2	0	0.0												
Oct 14 20:26	TLR 0	CURRENT	NONE																605	848	990	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	16	735	735	54
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	238	1918	1918	0
Total	253	2653	2653	54

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
CLEC	20.0	22.0
CSWS	4.0	4.0
EES	762.0	763.0
Total	786.0	789.0