

ICTE TLR 5 Investigation Report
Flowgate 1347
(Wilbert-Livonia Bulk 138 kV for the loss of Webre-Wells 500 kV)
TLR Level 5: January 11, 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 1347 on January 11, 2009. Flowgate 1347 is an Entergy flowgate. The TLR 5 was in effect from 1:43 AM until 10:40 AM CST on January 11, 2009. Projected post-contingent flows on the Wilbert-Livonia Bulk 138 kV line for the loss of the Webre-Wells 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 318 MVA. Flow on the Limiting Element was 112 MVA. Flow on the Contingent Element was 1310 MVA. The LODF was approximately 19%. Post-contingent flow on the Limiting Element was approximately 357 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.

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 during this TLR Level 5 by moving generation on Nelson 3 and Sabine 5.

Event History									
Issuing RC:		ICTE							
Flowgate:		1347 - Wilbert-Livonia for loss of Webre-Wells							
Event Begin:		2009-01-11 01:25							
Event End:		2009-01-11 13:15							
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	01/11/2009 01:25	01/11/2009 01:13	01/11/2009 01:12:48	0.0	0.0	0.0	0	0	
TLR Level 5A	01/11/2009 02:00	01/11/2009 01:43	01/11/2009 01:42:34	28.0	0.0	28.7	11	65	
TLR Level 5A	01/11/2009 03:00	01/11/2009 02:41	01/11/2009 02:37:32	0.0	0.0	10.9	5	57	
TLR Level 5A	01/11/2009 04:00	01/11/2009 03:34	01/11/2009 03:31:39	0.0	0.0	6.6	1	52	
TLR Level 5A	01/11/2009 05:00	01/11/2009 04:30	01/11/2009 04:28:56	14.0	0.0	14.4	8	65	
TLR Level 5A	01/11/2009 06:00	01/11/2009 05:31	01/11/2009 05:27:15	16.0	0.0	22.9	11	36	
TLR Level 5A	01/11/2009 07:00	01/11/2009 06:29	01/11/2009 06:29:16	4.0	0.0	23.0	11	34	
TLR Level 5A	01/11/2009 08:00	01/11/2009 07:27	01/11/2009 07:26:36	30.0	0.0	49.2	11	59	
TLR Level 5A	01/11/2009 09:00	01/11/2009 08:28	01/11/2009 08:28:12	7.0	0.0	49.5	12	57	
TLR Level 5A	01/11/2009 10:00	01/11/2009 09:31	01/11/2009 09:31:06	7.0	0.0	50.0	12	57	
TLR Level 5A	01/11/2009 11:00	01/11/2009 10:41	01/11/2009 10:40:44	0.0	0.0	0.0	0	0	
TLR Level 1	01/11/2009 11:40	01/11/2009 11:26	01/11/2009 11:26:34	0.0	0.0	0.0	0	0	
TLR Level 0	01/11/2009 13:15	01/11/2009 13:02	01/11/2009 13:02:26	0.0	0.0	0.0	0	0	

01/19/2009 10:18:11 (CST)
 OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813
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Event Summary

FILE SAVED AS: ICTE_1347_20090111_0125.htm

Incident: ICTE_1347_20090111_0125	Date: 01/11/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1347 - Wilbert-Livonia for loss of We...	Rating: 286	LODF: 19.48%
TLR Direction: Normal		
Effective StartTime: 01/11/2009 01:25	Effective EndTime: 01/11/2009 13:15	TLR Duration: 11 Hours and 50 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								NNL Relief			Market Relief				Flow			TLR Action Comments
				Total Tags Out / 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												
Jan 11 01:13	TLR 1	CURRENT		NONE								NONE			NONE				107 351 1257			N/A
Jan 11 01:43	TLR 5A	NEXT	7-F	11 / 0	65	8.2	65	8.2	0	0.0	LAGN	20.0	21.0	NONE				112	367	1310	N/A	
			Total	11 / 0	65	8.2	65	8.2	0	0.0	Total	20.0	21.0									
Jan 11 02:41	TLR 5A	NEXT	7-F	4 / 0	6	0.8	6	0.8	0	0.0	EES LAGN	2.0 1.0	3.0 1.0	NONE				96	306	1079	N/A	
			Total	4 / 0	6	0.8	6	0.8	0	0.0	Total	3.0	4.0									
Jan 11 03:34	TLR 5A	NEXT		NONE								NONE			NONE				95 301 1062			N/A
Jan 11 04:30	TLR 5A	NEXT	2-NH 7-F	1 / 0 6 / 0	5 9	0.6 1.1	5 9	0.6 1.1	0 0	0.0 0.0	EES LAGN	4.0 2.0	4.0 2.0	NONE				113	353	1233	N/A	
			Total	7 / 0	14	1.7	14	1.7	0	0.0	Total	6.0	6.0									
Jan 11 05:31	TLR 5A	NEXT	2-NH 7-F	1 / 0 10 / 0	6 30	0.7 3.8	6 30	0.7 3.8	0 0	0.0 0.0	EES LAGN	13.0 6.0	13.0 6.0	NONE				111	337	1166	N/A	
			Total	11 / 0	36	4.5	36	4.5	0	0.0	Total	19.0	19.0									
Jan 11 06:29	TLR 5A	NEXT	2-NH 7-F	1 / 0 10 / 0	5 29	0.6 3.7	5 29	0.6 3.7	0 0	0.0 0.0	EES LAGN	13.0 6.0	13.0 6.0	NONE				110	305	1003	N/A	
			Total	11 / 0	34	4.2	34	4.2	0	0.0	Total	19.0	19.0									
Jan 11 07:27	TLR 5A	NEXT	2-NH 7-F	1 / 0 10 / 0	4 55	0.5 7.0	4 55	0.5 7.4	0 0	0.0 0.0	EES LAGN	29.0 12.0	29.0 12.0	NONE				123	341	1124	N/A	
			Total	11 / 0	59	7.4	59	7.4	0	0.0	Total	41.0	41.0									
Jan 11 08:28	TLR 5A	NEXT	7-F	12 / 0	57	7.2	57	7.2	0	0.0	EES LAGN	30.0 12.0	30.0 12.0	NONE				123	331	1072	N/A	
			Total	12 / 0	57	7.2	57	7.2	0	0.0	Total	42.0	42.0									
Jan 11 09:31	TLR 5A	NEXT	7-F	12 / 0	57	7.2	57	7.2	0	0.0	EES LAGN	31.0 12.0	31.0 12.0	NONE				117	310	994	N/A	
			Total	12 / 0	57	7.2	57	7.2	0	0.0	Total	43.0	43.0									
Jan 11 10:41	TLR 5A	NEXT		NONE								NONE			NONE				100 256 801			N/A
Jan 11 11:28	TLR 1	CURRENT		NONE								NONE			NONE				97 259 832			N/A
Jan 11 13:02	TLR 0	CURRENT		NONE								NONE			NONE				86 235 767			N/A

TLR Schedule Totals

Priority	Schedule			
	Total Tags Out / Hold	IDC Cut MW	RC Cut Acknowledge MW	Hold MW
0	0	0	0	0
1	0	0	0	0
2	4	20	20	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	75	308	308	0
Total	79	328	328	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	122.0	123.0
LAGN	71.0	72.0
Total	193.0	195.0