

ICTE TLR 5 Investigation Report
Flowgate 1347
(Wilbert - Livonia 138kV for the loss of Webre-Wells 500kV)
TLR Level 5: April 9, 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 1347 on April 9, 2010. Flowgate 1347 is an Entergy flowgate. The TLR 5 was in effect from 6:09 AM until 9:27 PM on April 9, 2010. Projected post-contingent flows on the Wilbert - Livonia 138kV line for the loss of the Webre-Wells 500kV 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 289 MVA. Flow on the Limiting Element was 105 MVA. Flow on the Contingent Element was 1081 MVA. The LODF was approximately 19%. Post-contingent flow on the Limiting Element was approximately 314 MVA.

3. TLR levels, timing, and relief requested amounts.

TLRs levels, timing and relief requested amounts are shown on pages 3 and 4.

4. Transmission and generation outages or changes from prediction that may have contributed.

There were no unplanned outages. Nelson 6 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 achieved their NNL obligation by moving generation on Sabine, Nelson 3, 4 and 6, and Lewis Creek

Event History

Issuing RC: ICTE
Flowgate: 1347 - Wilbert-Livonia for loss of Webre-Wells
Event Begin: 2010-04-09 05:00
Event End: 2010-04-09 22:40
Event Duration: 17 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 1	04/09/2010 05:00	04/09/2010 04:38	04/09/2010 04:37:10	0.0	0.0	0.0	0	0
TLR Level 3A	04/09/2010 06:00	04/09/2010 05:34	04/09/2010 05:31:04	25.0	24.7	0.3	1	2
TLR Level 5B	04/09/2010 06:45	04/09/2010 06:13	04/09/2010 06:09:37	10.0	0.0	10.9	10	15
TLR Level 5B	04/09/2010 07:30	04/09/2010 07:16	04/09/2010 07:15:34	30.0	0.0	30.7	11	31
TLR Level 5A	04/09/2010 09:00	04/09/2010 08:28	04/09/2010 08:27:11	0.0	0.0	32.2	14	35
TLR Level 5A	04/09/2010 10:00	04/09/2010 09:27	04/09/2010 09:25:58	0.0	0.0	14.2	14	20
TLR Level 5A	04/09/2010 11:00	04/09/2010 10:28	04/09/2010 10:25:50	0.0	0.0	3.2	8	8
TLR Level 5A	04/09/2010 12:00	04/09/2010 11:26	04/09/2010 11:25:35	0.0	0.0	0.0	0	0
TLR Level 5A	04/09/2010 13:00	04/09/2010 12:29	04/09/2010 12:26:01	39.0	0.0	39.8	16	47
TLR Level 5A	04/09/2010 14:00	04/09/2010 13:29	04/09/2010 13:25:58	2.0	0.0	36.4	15	44
TLR Level 5A	04/09/2010 15:00	04/09/2010 14:28	04/09/2010 14:25:46	0.0	0.0	22.5	16	33
TLR Level 5A	04/09/2010 16:00	04/09/2010 15:28	04/09/2010 15:25:58	0.0	0.0	15.0	14	22
TLR Level 5A	04/09/2010 17:00	04/09/2010 16:28	04/09/2010 16:26:28	0.0	0.0	8.0	13	17
TLR Level 5A	04/09/2010 18:00	04/09/2010 17:31	04/09/2010 17:29:15	2.0	0.0	8.3	11	15
TLR Level 5A	04/09/2010 19:00	04/09/2010 18:37	04/09/2010 18:35:29	2.0	0.0	8.8	11	19
TLR Level 5A	04/09/2010 20:00	04/09/2010 19:35	04/09/2010 19:33:02	1.0	0.0	7.8	10	12
TLR Level 5A	04/09/2010 21:00	04/09/2010 20:27	04/09/2010 20:26:32	2.0	0.0	8.8	11	18
TLR Level 5A	04/09/2010 22:00	04/09/2010 21:29	04/09/2010 21:27:46	2.0	0.0	9.0	11	19
TLR Level 0	04/09/2010 22:40	04/09/2010 22:27	04/09/2010 22:27:08	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_1347_20100409_0400.htm

Incident:	ICTE_1347_20100409_0400	Date: 04/09/2010 (CDT)	Reliability Coordinator: ICTE
Initial Conditions:	N/A		
Flowgate:	1347 - Wilbert-Livonia for loss of We...	Rating: 289	LODF: 19.99%
TLR Direction:	Normal		
Effective StartTime:	04/09/2010 05:00 (CDT)	Effective EndTime: 04/09/2010 22:40 (CDT)	TLR Duration: 17 Hours and 40 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	Relief	RC Cut Acknowledge MW	Hold MW	Relief	CA	IDC MW	RC Askn MW	Type	Mit	IDC MW	RC Askn MW	Current	Post Cont.	Cont. Flow		
Apr 09 04:38 (CDT)	TLR 1	CURRENT		NONE						NONE			NONE				91	297	1031	N/A	
Apr 09 05:34 (CDT)	TLR 3A	NEXT	2-NH 6-NN Total	0 / 1 1 / 0 1 / 1	0 2 2	0.0 0.3 0.3	0 2 2	0.0 0.3 0.3	52 0 52	7.7 0.0 7.7	NONE			NONE				104	327	1119	N/A
Apr 09 06:13 (CDT)	TLR 5B	CURRENT	7-F Total	10 / 0 10 / 0	15 15	2.1 2.1	15 15	2.1 2.1	0 0	0.0 0.0	EES LAGN Total	6.0 3.0 9.0	6.0 3.0 9.0	NONE				105	321	1081	N/A
		NEXT	6-NN 7-F Total	0 / 1 10 / 0 10 / 1	0 15 15	0.0 2.1 2.1	0 15 15	0.0 2.1 2.1	3 0 3	0.5 0.0 0.5	NONE			NONE							
Apr 09 07:16 (CDT)	TLR 5B	CURRENT	7-F Total	11 / 0 11 / 0	31 31	4.3 4.3	31 31	4.3 4.3	0 0	0.0 0.0	EES LAGN Total	23.0 12.0 35.0	23.0 12.0 35.0	NONE				107	318	1056	N/A
		NEXT	6-NN 7-F Total	0 / 1 11 / 0 11 / 1	0 43 43	0.0 5.9 5.9	0 43 43	0.0 5.9 5.9	3 0 3	0.5 0.0 0.5	NONE			NONE							
Apr 09 08:28 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 13 / 0 14 / 0	1 34 35	0.2 4.6 4.8	1 34 35	0.2 4.6 4.8	0 0 0	0.0 0.0 0.0	EES LAGN Total	18.0 10.0 28.0	18.0 10.0 28.0	NONE				92	265	870	N/A
Apr 09 09:27 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 13 / 1 14 / 1	2 18 20	0.3 2.4 2.7	2 18 20	0.3 2.4 2.7	0 52 52	0.0 6.6 6.6	EES LAGN Total	7.0 4.0 11.0	7.0 4.0 11.0	NONE				89	256	838	N/A
Apr 09 10:28 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	0 / 1 8 / 0 8 / 1	0 8 8	0.0 1.1 1.1	0 8 8	0.0 1.1 1.1	1 0 1	0.2 0.0 0.2	EES LAGN Total	1.0 1.0 2.0	1.0 1.0 2.0	NONE				92	264	863	N/A
Apr 09 11:26 (CDT)	TLR 5A	NEXT	6-NN Total	0 / 1 0 / 1	0 0	0.0 0.0	0 0	0.0 0.0	2 2	0.3 0.3	NONE			NONE				96	286	955	N/A
Apr 09 12:29 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	0 / 1 16 / 0 16 / 1	0 47 47	0.0 6.3 6.3	0 47 47	0.0 6.3 6.3	2 0 2	0.3 0.0 0.3	EES LAGN Total	21.0 12.0 33.0	22.0 12.0 34.0	NONE				99	305	1033	N/A
Apr 09 13:29 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	0 / 1 15 / 0 15 / 1	0 44 44	0.0 5.9 5.9	0 44 44	0.0 5.9 5.9	3 0 3	0.5 0.0 0.5	EES LAGN Total	19.0 11.0 30.0	19.0 11.0 30.0	NONE				87	263	885	N/A
Apr 09 14:28 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 15 / 0 16 / 0	3 30 33	0.5 3.9 4.4	3 30 33	0.5 3.9 4.4	0 0 0	0.0 0.0 0.0	EES LAGN Total	12.0 6.0 18.0	12.0 6.0 18.0	NONE				81	242	806	N/A
Apr 09 15:28 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	0 / 1 14 / 0 14 / 1	0 22 22	0.0 2.9 2.9	0 22 22	0.0 2.9 2.9	2 0 2	0.3 0.0 0.3	EES LAGN Total	8.0 4.0 12.0	8.0 4.0 12.0	NONE				83	247	823	N/A
Apr 09 16:28 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 12 / 0 13 / 0	3 14 17	0.5 1.8 2.3	3 14 17	0.5 1.8 2.3	0 0 0	0.0 0.0 0.0	EES LAGN Total	4.0 2.0 6.0	4.0 2.0 6.0	NONE				81	246	826	N/A
Apr 09 17:31 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 10 / 0 11 / 0	3 12 15	0.5 1.6 2.1	3 12 15	0.5 1.6 2.1	0 0 0	0.0 0.0 0.0	EES LAGN Total	4.0 2.0 6.0	4.0 2.0 6.0	NONE				82	248	831	N/A
Apr 09 18:37 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 10 / 0 11 / 0	7 12 19	1.2 1.6 2.7	7 12 19	1.2 1.6 2.7	0 0 0	0.0 0.0 0.0	EES LAGN Total	4.0 2.0 6.0	4.0 2.0 6.0	NONE				85	256	858	N/A
Apr 09 19:35 (CDT)	TLR 5A	NEXT	7-F Total	10 / 0 10 / 0	12 12	1.6 1.6	12 12	1.6 1.6	0 0	0.0 0.0	EES LAGN Total	4.0 2.0 6.0	4.0 2.0 6.0	NONE				82	253	858	N/A
Apr 09 20:27 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 10 / 0 11 / 0	6 12 18	1.0 1.6 2.6	6 12 18	1.0 1.6 2.6	0 0 0	0.0 0.0 0.0	EES LAGN Total	4.0 2.0 6.0	4.0 2.0 6.0	NONE				89	265	885	N/A
Apr 09 21:29 (CDT)	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 10 / 0 11 / 0	6 13 19	1.0 1.7 2.7	6 13 19	1.0 1.7 2.7	0 0 0	0.0 0.0 0.0	EES LAGN Total	4.0 2.0 6.0	4.0 2.0 6.0	NONE				93	284	957	N/A
Apr 09 22:27 (CDT)	TLR 0	CURRENT		NONE						NONE			NONE				83	248	827	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	52
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	9	33	33	16
7	198	382	382	52
Total	207	415	415	120

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	139.0	140.0
LAGN	75.0	75.0
Total	214.0	215.0