

ICTE TLR 5 Investigation Report
Flowgate 16314
(Mabelvale - Bryant 115 kV for the loss of Mabelvale - Sheridan 500 kV)
TLR Level 5: April 13, 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 16314 on April 13, 2010. Flowgate 16314 is an Entergy flowgate. The TLR 5 was in effect from 12:26 AM until 4:26 AM PM on April 13, 2010. Projected post-contingent flows on the Mabelvale - Bryant 115 kV line for the loss of the Mabelvale - Sheridan 500 kV 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 173 MVA. Flow on the Limiting Element was 50 MVA. Flow on the Contingent Element was 1087 MVA. The LODF was approximately 15%. Post-contingent flow on the Limiting Element was approximately 208 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.

The Sheridan – White Bluff 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 included below.

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 White Bluff 1 and Sabine.

Event History								
Issuing RC:		ICTE						
Flowgate:		16314 - Mabelvale-Bryant 115KV for the loss of Sheridan - Mabelvale 500KV						
Event Begin:		2010-04-13 00:40						
Event End:		2010-04-13 06:15						
Event Duration:		6 Hours						
NNL Work Sheet:		View						
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 5B	04/13/2010 00:40	04/13/2010 00:28	04/13/2010 00:26:20	40.0	0.0	40.4	11	81
TLR Level 5A	04/13/2010 02:00	04/13/2010 01:30	04/13/2010 01:28:08	4.0	0.0	40.5	11	87
TLR Level 5A	04/13/2010 03:00	04/13/2010 02:27	04/13/2010 02:26:39	11.0	0.0	47.1	12	189
TLR Level 5A	04/13/2010 04:00	04/13/2010 03:27	04/13/2010 03:25:53	0.0	0.0	23.3	11	134
TLR Level 5A	04/13/2010 05:00	04/13/2010 04:27	04/13/2010 04:26:02	0.0	0.0	9.4	8	110
TLR Level 1	04/13/2010 05:40	04/13/2010 05:28	04/13/2010 05:27:52	0.0	0.0	0.0	0	0
TLR Level 0	04/13/2010 06:15	04/13/2010 06:02	04/13/2010 06:01:55	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_16314_20100412_2340.htm

Incident: ICTE_16314_20100412_2340	Date: 04/13/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 16314 - Mabelvale-Bryant 115KV for the...	Rating: 173	LODF: 14.72%
TLR Direction: Normal		
Effective StartTime: 04/13/2010 00:40	Effective EndTime: 04/13/2010 06:15	TLR Duration: 5 Hours and 35 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule					NNL Relief			Market Relief		Flow		Cont. Flow	TLR Action Comments		
				Total Tags Cut / Hold	IDC Cut MW	RC Cut Acknowledge MW	Hold MW	Relief MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW			Current	Post Cont.
Apr 13 00:28	TLR 5B	CURRENT	7-F	11 / 0	81	4.3	81	4.3	0	0.0	EES	36.0	36.0	NONE		50	210	1087	N/A
			Total	11 / 0	81	4.3	81	4.3	0	0.0	Total	36.0	36.0						
Apr 13 01:30	TLR 5A	NEXT	7-F	10 / 0	82	3.4	62	3.4	0	0.0				NONE					
			Total	10 / 0	81	3.4	62	3.4	0	0.0	Total	36.0	36.0						
Apr 13 02:27	TLR 5A	NEXT	2-NH	1 / 0	100	5.3	100	5.3	0	0.0	EES	37.0	37.0	NONE		46	182	931	N/A
			7-F	11 / 0	89	4.8	89	4.8	0	0.0	Total	37.0	37.0			44	177	908	N/A
Apr 13 03:27	TLR 5A	NEXT	2-NH	1 / 0	100	5.3	100	5.3	0	0.0	EES	16.0	16.0	NONE		43	170	863	N/A
			7-F	10 / 0	34	1.9	34	1.9	0	0.0	Total	16.0	16.0						
Apr 13 04:27	TLR 5A	NEXT	2-NH	1 / 0	100	5.3	100	5.3	0	0.0	EES	4.0	4.0	NONE		46	192	998	N/A
			7-F	7 / 0	10	0.6	10	0.6	0	0.0	Total	4.0	4.0						
Apr 13 05:28	TLR 1	CURRENT				NONE				NONE			NONE		46	174	879	N/A	
Apr 13 06:02	TLR 0	CURRENT				NONE				NONE			NONE		43	147	712	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	3	300	300	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	60	363	363	0
Total	63	663	663	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	129.0	129.0
Total	129.0	129.0

Date	Time	Category	Action
13-Apr-10	00:26	TLR - 5b	Issued TLR 5B on Mabelvale-Bryant 115KV for the loss of Sheridan - Mabelvale 500KV, cause was the Sheridan-WB 500KV outage. EES has 36NNL on FG. Oasis# 247720 EES notified. NO AFC page printed page down for nightly outage
13-Apr-10	01:28	Other	EES changed TAR rating on FG mon element from 178 to 188. "Bryant - Mabelvale 159 188 62 4/13/2010 1:25:53 AM 4/13/2010 2:25:53 AM"
13-Apr-10	01:30	TLR - 5a	Issued TLR 5A on FG 16314, EES NNL 35.8, EES maintaining last redispatch. Oasis #247720 updated with new lvl. EES notified. NO AFC page printed page down for nightly outage
13-Apr-10	02:26	TLR - 5a	Issued TLR 5A on FG 16314, EES NNL 37.0, EES notified.
13-Apr-10	03:25	TLR - 5a	Issued TLR 5A on FG 16314, EES NNL 16.1, . EES notified.

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13-Apr-10	05:28	TLR - 1	Issued TLR 1 to end TLR 5 PC @90%, EES soc Notified