

ICTE TLR 5 Investigation Report
Flowgate 16500
(Sage-Melbourne 161kV for the loss of Independence – Dell 500kV)
TLR Level 5: July 15, 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 16500 on July 15, 2010. Flowgate 16500 is an Entergy flowgate. The TLR 5 was in effect from 11:30 AM until 20:00 PM on July 15, 2010. Projected post-contingent flows on the Sage-Melbourne 161kV for the loss of Independence-Dell 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 148 MVA. Flow on the Limiting Element was 125 MVA. Flow on the Contingent Element was 1060 MVA. The LODF was approximately 5%. Post-contingent flow on the Limiting Element was approximately 178 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.

There were no non-firm schedules with a 5% or greater TDF available for curtailment at the time of the TLR 5.

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 Independence units.

Event History								
Issuing RC:		ICTE						
Flowgate:		16500 - Sage-Melbourne 161kV FTLO Independence-Dell 500 kV						
Event Begin:		2010-07-15 11:30						
Event End:		2010-07-15 20:00						
Event Duration:		9 Hours						
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 5B	07/15/2010 11:30	07/15/2010 11:18	07/15/2010 11:15:55	25.0	0.0	25.1	7	162
TLR Level 5A	07/15/2010 13:00	07/15/2010 12:33	07/15/2010 12:32:00	0.0	0.0	13.0	6	81
TLR Level 5A	07/15/2010 14:00	07/15/2010 13:32	07/15/2010 13:30:04	0.0	0.0	3.9	6	25
TLR Level 5A	07/15/2010 15:00	07/15/2010 14:30	07/15/2010 14:29:17	5.0	0.0	7.8	6	46
TLR Level 5A	07/15/2010 16:00	07/15/2010 15:32	07/15/2010 15:28:10	0.0	0.0	5.5	6	33
TLR Level 5A	07/15/2010 17:00	07/15/2010 16:32	07/15/2010 16:29:16	0.0	0.0	1.8	5	12
TLR Level 5A	07/15/2010 18:00	07/15/2010 17:27	07/15/2010 17:25:45	1.0	0.0	2.3	5	15
TLR Level 5A	07/15/2010 19:00	07/15/2010 18:39	07/15/2010 18:36:28	19.0	0.0	20.6	6	122
TLR Level 0	07/15/2010 20:00	07/15/2010 19:45	07/15/2010 19:44:20	0.0	0.0	0.0	0	0

Excel

Event Summary

FILE SAVED AS: ICTE_16500_20100715_1030.htm

Incident: ICTE_16500_20100715_1030	Date: 07/15/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 16500 - Sage-Melbourne 161kV FTLO Inde...	Rating: 167	LODF: 5.32%
TLR Direction: Normal		
Effective StartTime: 07/15/2010 11:30	Effective EndTime: 07/15/2010 20:00	TLR Duration: 8 Hours and 30 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule						NNL Relief			Market Relief			Flow			TLR Action Comments	
				Total Tags Cut / Hold	IDC Cut MV	Relief	RC Cut Acknowledge MV	Relief	Hold MV	Relief	CA	IDC MV	RC Ackn MV	Type	Mkt	IDC MV	RC Ackn MV	Current		Post Cont.
Jul 15 11:15	TLR 5B	CURRENT	7-F	7 / 0	162	8.3	162	8.3	0	0.0	EES	17.0	17.0	NONE			125	181	1000	N/A
		TOTAL	7 / 0	162	8.3	162	8.3	0	0.0	EES	17.0	17.0	NONE							
Jul 15 12:33	TLR 5A	NEXT	7-F	6 / 0	164	8.4	164	8.4	0	0.0	NONE			NONE						
		TOTAL	6 / 0	162	8.4	164	8.4	0	0.0	NONE			NONE							
Jul 15 13:32	TLR 5A	NEXT	7-F	6 / 0	81	4.2	81	4.2	0	0.0	EES	9.0	9.0	NONE			94	142	904	N/A
		TOTAL	6 / 0	81	4.2	81	4.2	0	0.0	EES	9.0	9.0	NONE							
Jul 15 14:30	TLR 5A	NEXT	7-F	6 / 0	25	1.3	25	1.3	0	0.0	EES	3.0	3.0	NONE			88	137	935	N/A
		TOTAL	6 / 0	25	1.3	25	1.3	0	0.0	EES	3.0	3.0	NONE							
Jul 15 15:32	TLR 5A	NEXT	7-F	6 / 0	46	2.4	46	2.4	0	0.0	EES	5.0	5.0	NONE			90	145	1041	N/A
		TOTAL	6 / 0	46	2.4	46	2.4	0	0.0	EES	5.0	5.0	NONE							
Jul 15 16:32	TLR 5A	NEXT	7-F	6 / 0	33	1.8	33	1.8	0	0.0	EES	4.0	4.0	NONE			101	150	923	N/A
		TOTAL	6 / 0	33	1.8	33	1.8	0	0.0	EES	4.0	4.0	NONE							
Jul 15 17:27	TLR 5A	NEXT	7-F	5 / 0	12	0.6	12	0.6	0	0.0	EES	1.0	1.0	NONE			99	150	962	N/A
		TOTAL	5 / 0	12	0.6	12	0.6	0	0.0	EES	1.0	1.0	NONE							
Jul 15 18:39	TLR 5A	NEXT	7-F	5 / 0	15	0.8	15	0.8	0	0.0	EES	2.0	2.0	NONE			98	145	909	N/A
		TOTAL	5 / 0	15	0.8	15	0.8	0	0.0	EES	2.0	2.0	NONE							
Jul 15 19:45	TLR 0	CURRENT	7-F	6 / 0	122	6.6	122	6.6	0	0.0	EES	14.0	14.0	NONE			121	169	913	N/A
		TOTAL	6 / 0	122	6.6	122	6.6	0	0.0	EES	14.0	14.0	NONE							

TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MV	RC Cut Acknowledge MV	Hold MV
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	53	660	660	0
Total	53	660	660	0

TLR NNL Totals

NNL Relief		
CA	IDC MV	RC Ackn MV
EES	55.0	55.0
Total	55.0	55.0

07/15/10	0906	Flow Gate Assessment	Assessed FG as ICP PC 99%, notified EES
07/15/10	1001	Other	Contacted EES(Patrick)
07/15/10	1104	Other	Requested EES(Patrick) study opening breaker B62 at Norfolk. SPP Engineer is also studying opening the breaker
07/15/10	1118	TLR - 5b	Issued TLR - 5b PC 116% EES notified EES NNL 16.8 REF# 273244 Called ICT tariff desk to zero out non-firm AFC's. Bill ICT TARIFF desk called back to inform that flowgate is not available to zero AFC's at this time. verified that there is no internal non-firm schedules

07/15/10	1134	TLR - 5b	Called Joe EES SOC supervisor to ask him to identify any know redispatch options available to the transmission customer that will mitigate the loading on the Constrained Facilities. Joe stated that there are none redispatch option available.
07/15/10	1233	TLR - 5a	Issued TLR 5a PC 90% EES notified EES NNL 8.8 verified that there is no new internal non-firm schedules
07/15/10	1332	TLR - 5a	Re-issued TLR-5a PC 87% EES notified EES NNL:2.6 verified that there is no new internal non-firm schedules
07/15/10	1430	TLR - 5a	Re-issued TLR 5a PC 92% EES notified, EES NNL 5.3 verified that there is no new internal non-firm schedules
07/15/10	1532	TLR - 5a	Re-issued tlr 5a PC 95% Ees notified verified that there is no new internal non-firm schedules
07/15/10	1632	TLR - 5a	Re-issued TLR 5a PC 95% EES notified EES NNL:1.2 verified that there is no new internal non-firm schedules
07/15/10	1727	TLR - 5a	Re-issued TLR 5a PC 94 % EES notified EES NNL: verified that there is no new internal non-firm schedules
07/15/10	1839	TLR - 5a	ICT RC reissued TLR-5A on FG. EES (Kelly-SS) notified of NNL responsibility of 14.0 MW.
07/15/10	1945	TLR - 0	ICT closed TLR on FG 16500 effective 20:00.