

ICTE TLR 5 Investigation Report
Flowgate 16819
(Parkin - Gilmore 161 kV for the loss of Choctaw - Westpoint 500 kV)
TLR Level 5: December 17 and 18, 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 16819 on December 17, 2010. Flowgate 16819 is an Entergy flowgate. The TLR 5 was in effect from 4:44 PM on December 17, 2010 until 11:30 AM on December 18, 2010. Projected post-contingent flows on the Parkin - Gilmore 161 kV line for the loss of the Choctaw - Westpoint 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 175 MVA. Flow on the Limiting Element was 144 MVA. Flow on the Contingent Element was 1255 MVA. The LODF was approximately 4%. Post-contingent flow on the Limiting Element was approximately 190 MVA.

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

TLRs levels, timing and relief requested amounts are shown on pages 2, 3 and 4.

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

- There was an unplanned outage on Ises-Dell 500 kV on the ICTE system associated with this flowgate.
- There were no abnormal load changes.
- There was 0 mw of non-firm service impacting the flowgate day of since the RC was in a TLR 5 event.

There was an unplanned outage on the Ises-Dell 500 kv line due to equipment failure that significantly impacted the 161 kV system which developed the need for the TLR 5 event. The constraint is a South to North flowgate. Units in the Entergy BA (including internal IPPs and QFs) South of the constraint have an average Generation Shift Factor (GSF) of -12%, while units North have an average GSF of .4%. The base loaded units north of the constraint were for the most part loaded at their P_{MAX} for the duration of the event. Other base loaded units south of the constraint were for the most part operating at P_{MAX} during the event. Other generating units south of the constraint had lowered due to a decrease in load and for regulation reasons. IPP/QF generation stayed approximately the same through the TLR 5 event.

5. Procedures implemented prior to hold/curtailment.

There were no non-firm transactions with greater than 5% TDF available for curtailment to alleviate the flowgate. The system was not re-dispatched to prevent curtailment of firm service. The ICT RC verifies with Entergy's Shift Supervisor before a TLR 5 event is called if there are any re-dispatch options available. The Entergy Shift Supervisor to-date has not offered any re-dispatch solutions to prevent a TLR 5 event.

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 temporary flowgate was not in the AFC process.

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.

No entities had NNL with this TLR Level 5.

Event History

Issuing RC: ICTE
Flowgate: 16819 - Parkin - Gilmore 161 (ftlo) Choctaw - Westpoint 500 kv
Event Begin: 2010-12-17 18:00
Event End: 2010-12-18 15:15
Event Duration: 21 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 5A	12/17/2010 18:00	12/17/2010 17:41	12/17/2010 17:40:57	78.0	24.0	54.0	5	913
TLR Level 5A	12/17/2010 19:00	12/17/2010 18:34	12/17/2010 18:34:15	70.0	16.7	53.3	5	912
TLR Level 5A	12/17/2010 20:00	12/17/2010 19:34	12/17/2010 19:33:05	79.0	25.6	53.4	5	914
TLR Level 5A	12/17/2010 21:00	12/17/2010 20:29	12/17/2010 20:28:04	24.0	0.9	23.1	4	397
TLR Level 5A	12/17/2010 22:00	12/17/2010 21:30	12/17/2010 21:28:14	99.0	78.1	20.9	3	390
TLR Level 5A	12/17/2010 23:00	12/17/2010 22:29	12/17/2010 22:28:35	45.0	21.9	23.1	4	393
TLR Level 5A	12/18/2010 00:00	12/17/2010 23:31	12/17/2010 23:30:33	10.0	0.0	10.1	3	189
TLR Level 5A	12/18/2010 01:00	12/18/2010 00:32	12/18/2010 00:32:02	0.0	0.0	0.0	0	0
TLR Level 1	12/18/2010 01:50	12/18/2010 01:37	12/18/2010 01:36:33	0.0	0.0	0.0	0	0
TLR Level 5A	12/18/2010 10:00	12/18/2010 09:43	12/18/2010 09:41:49	9.0	0.0	9.0	3	129
TLR Level 5A	12/18/2010 11:00	12/18/2010 10:33	12/18/2010 10:28:38	10.0	0.0	10.1	3	149
TLR Level 5A	12/18/2010 12:00	12/18/2010 11:33	12/18/2010 11:29:08	0.0	0.0	0.0	0	0
TLR Level 5A	12/18/2010 13:00	12/18/2010 12:28	12/18/2010 12:27:25	0.0	0.0	0.0	0	0
TLR Level 1	12/18/2010 13:40	12/18/2010 13:31	12/18/2010 13:30:05	0.0	0.0	0.0	0	0
TLR Level 0	12/18/2010 15:15	12/18/2010 15:08	12/18/2010 15:05:58	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_16819_20101217_1700.htm

Incident: ICTE_16819_20101217_1700	Date: 12/17/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 16819 - Parkin - Gilmore 161 (ftlo) Ch...	Rating: 150	LODF: 3.93%
TLR Direction: Normal		
Effective StartTime: 12/17/2010 18:00	Effective EndTime: 12/18/2010 15:15	TLR Duration: 21 Hours and 15 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 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. Flow	Cont. Flow
Dec 17 17:41	TLR 5A	NEXT	7-F	5 / 0	913	54.0	913	54.0	0	0.0							144	193	1255	N/A
			Total	5 / 0	913	54.0	913	54.0	0	0.0										
Dec 17 18:34	TLR 5A	NEXT	7-F	5 / 0	912	53.3	912	53.3	0	0.0							107	149	1087	N/A
			Total	5 / 0	912	53.3	912	53.3	0	0.0										
Dec 17 19:34	TLR 5A	NEXT	7-F	5 / 0	914	53.4	914	53.4	0	0.0							122	167	1155	N/A
			Total	5 / 0	914	53.4	914	53.4	0	0.0										
Dec 17 20:29	TLR 5A	NEXT	7-F	4 / 0	397	23.1	397	23.1	0	0.0							128	175	1247	N/A
			Total	4 / 0	397	23.1	397	23.1	0	0.0										
Dec 17 21:30	TLR 5A	NEXT	7-F	3 / 0	390	20.9	390	20.9	0	0.0							134	181	1210	N/A
			Total	3 / 0	390	20.9	390	20.9	0	0.0										
Dec 17 22:29	TLR 5A	NEXT	7-F	4 / 0	393	23.1	393	23.1	0	0.0							126	173	1209	N/A
			Total	4 / 0	393	23.1	393	23.1	0	0.0										
Dec 17 23:31	TLR 5A	NEXT	7-F	3 / 0	189	10.1	189	10.1	0	0.0							128	171	1094	N/A
			Total	3 / 0	189	10.1	189	10.1	0	0.0										
Dec 18 00:32	TLR 5A	NEXT															129	173	1144	N/A
Dec 18 01:37	TLR 1	CURRENT															129	169	1042	N/A
Dec 18 09:43	TLR 5A	NEXT	7-F	3 / 0	129	9.0	129	9.0	0	0.0							134	165	1309	N/A
			Total	3 / 0	129	9.0	129	9.0	0	0.0										
Dec 18 10:33	TLR 5A	NEXT	7-F	3 / 0	149	10.1	149	10.1	0	0.0							121	166	1168	N/A
			Total	3 / 0	149	10.1	149	10.1	0	0.0										
Dec 18 11:33	TLR 5A	NEXT															118	165	1210	N/A
Dec 18 12:28	TLR 5A	NEXT															127	179	1329	N/A
Dec 18 13:31	TLR 1	CURRENT															112	162	1292	N/A

Dec 18 15:08	TLR 0	CURRENT	NONE	NONE	NONE	41	89	1238	N/A
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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	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	35	4386	4386	0
Total	35	4386	4386	0

Date	Time	Issue	Category
12/17/10	1833	Reissued TLR 5A, PC 94%, No NNL	TLR - 5a Reissue
12/17/10	1928	Reissued TLR 5A, PC 99%, No NNL	TLR - 5a Reissue
12/17/10	2028	Reissued TLR 5A, PC 102%, No NNL	TLR - 5a Reissue
12/17/10	2128	Reissued TLR 5A, PC 98%, No NNL	TLR - 5a Reissue
12/17/10	2230	Reissued TLR 5A, PC 97%, No NNL	TLR - 5a Reissue
12/17/10	2332	Reissued TLR 5A, PC 98%, No NNL	TLR - 5a Reissue
12/18/10	0026	Issued TLR 1, PC 96%, No NNL or schedules	TLR - 1
12/18/10	0820	Checked with ICT TA and found no AFC's on this FG due to FG not being built in model.	TA Notification
12/18/10	0821	Called EES (Corley) to request if there were any redispatch options available on FG. Also confirmed that there were no conditional firm schedules on FG.	TLR - SS Contact
12/18/10	0841	PC 104% Notified EES (Sean) No NNL Updated OASIS Ref#356739	TLR - 5a Initial
12/18/10	0930	PC 94%	TLR - 5a Reissue
12/18/10	1030	PC 93%	TLR - 5a Reissue
12/18/10	1130	PC 101%	TLR - 5a Reissue
12/18/10	1230	PC 91% Notified EES (Sean) OASIS Ref #356739	TLR - 1
12/18/10	1405	PC 49% Oasis Ref 356739	TLR - 0