

**ICTE TLR 5 Investigation Report
Flowgate 17080
(ISES AT2 500/161 kV for the loss of ISES - Dell)
TLR Level 5: April 16, 2011
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 17080 on April 16, 2011. Flowgate 17080 is an Entergy flowgate. The TLR 5 was in effect from 10:30 AM until 1:32 PM on April 16, 2011. Projected post-contingent flows on the ISES AT2 500/161 kV line for the loss of the ISES - Dell 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 425 MVA. Flow on the Limiting Element was 196 MVA. Flow on the Contingent Element was 933 MVA. The LODF was approximately 21%. Post-contingent flow on the Limiting Element was approximately 389 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 was an unplanned outage on the West Memphis-Keo 500 kV and the West Memphis-Freeport 500 kV lines due to storm damage that impacted 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 West Memphis-Keo 500kV and West Memphis-Freeport 500 kV lines due to storm damage that significantly impacted the TLR 5 event. With the two 500 kV lines already out in the area, the loss of the ISES-Dell 500 kV line would increase flows on the 161 kV system toward the East.

5. Procedures implemented prior to hold/curtailment.

There were not enough non-firm curtailments 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 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. This flowgate was not in the AFC model at the time of this TLR.

12. Description of actions taken to avoid future hold/curtailments.

This TLR was caused by a combination of generation patterns, load, and system flows along with loss of transmission lines. 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 had 45 MW of NNL. SPA had 8 MW of NNL.

Event History

Issuing RC: ICTE
Flowgate: 17080 - ISES AT2 ftlo ISES - Dell
Event Begin: 2011-04-16 09:40
Event End: 2011-04-17 13:40
Event Duration: 28 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 4	04/16/2011 09:40	04/16/2011 09:28	04/16/2011 09:26:16	0.0	0.0	0.0	2	329
TLR Level 5B	04/16/2011 10:30	04/16/2011 10:14	04/16/2011 10:11:01	25.0	0.0	25.5	13	84
TLR Level 5A	04/16/2011 12:00	04/16/2011 11:34	04/16/2011 11:33:39	8.0	0.0	28.0	12	137
TLR Level 5A	04/16/2011 13:00	04/16/2011 12:30	04/16/2011 12:29:40	3.0	0.0	22.6	12	116
TLR Level 5A	04/16/2011 14:00	04/16/2011 13:32	04/16/2011 13:28:02	0.0	0.0	2.0	2	31
TLR Level 4	04/16/2011 14:45	04/16/2011 14:29	04/16/2011 14:29:01	0.0	0.0	0.0	0	0
TLR Level 1	04/16/2011 16:00	04/16/2011 15:30	04/16/2011 15:30:21	0.0	0.0	0.0	0	0
TLR Level 0	04/17/2011 13:40	04/17/2011 13:31	04/17/2011 13:31:04	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_17080_20110416_0840.htm

Incident: ICTE_17080_20110416_0840 **Date:** 04/16/2011 **Reliability Coordinator:** ICTE
Initial Conditions: N/A
Flowgate: 17080 - ISES AT2 ftlo ISES - Dell **Rating:** 425 **LODF:** 20.49%
TLR Direction: Normal
Effective StartTime: 04/16/2011 09:40 **Effective EndTime:** 04/17/2011 13:40 **TLR Duration:** 28 Hours and 0 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule						INL Relief			Market Relief			Flow			TLR Action Comments
				Total Tags Cut / Hold	IDC Cut MW	RC Cut Acknowledge MW	Hold MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow		
Apr 16 09:28	TLR 4	CURRENT	1-NS 2-NH Total	1 / 0 1 / 0 2 / 0	20 309 694	1.2 24.5 25.7	20 309 329	1.2 24.5 25.7	0 0 0	NONE			NONE			231	459	1113	N/A
		NEXT	2-NH Total	2 / 1 2 / 1	395 694	27.5 27.5	395 395	27.5 27.5	52 52	3.1 3.1	NONE			NONE					
Apr 16 10:14	TLR 5B	CURRENT	7-F Total	13 / 0 13 / 0	84 84	8.0 6.0	84 84	8.0 6.0	0 0	EES SPA Total	17.0 3.0 20.0	17.0 3.0 20.0	NONE			235	437	968	N/A
		NEXT	8-NN 7-F Total	1 / 0 9 / 1 10 / 1	32 40 84	1.9 3.4 5.3	32 40 72	1.9 3.4 5.3	0 5 5	0.0 0.3 0.3	NONE			NONE					
Apr 16 11:34	TLR 5A	NEXT	7-F Total	12 / 0 12 / 0	137 137	9.5 9.5	137 137	9.5 9.5	0 0	EES SPA Total	16.0 3.0 19.0	16.0 3.0 19.0	NONE			198	387	933	N/A
Apr 16 12:30	TLR 5A	NEXT	7-F Total	12 / 0 12 / 0	116 116	8.0 8.0	116 116	8.0 8.0	0 0	EES SPA Total	12.0 2.0 14.0	12.0 2.0 14.0	NONE			189	370	888	N/A
Apr 16 13:32	TLR 5A	NEXT				NONE				NONE			NONE			164	335	837	N/A
Apr 16 14:29	TLR 4	CURRENT				NONE				NONE			NONE			191	378	903	N/A
		NEXT				NONE				NONE			NONE						
Apr 16 15:30	TLR 1	CURRENT				NONE				NONE			NONE			178	351	849	N/A
Apr 17 13:31	TLR 0	CURRENT				NONE				NONE			NONE			161	301	864	N/A

TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MVV	RC Cut Acknowledge MVV	Hold MVV
0	0	0	0	0
1	1	20	20	0
2	3	674	674	52
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	1	32	32	0
7	45	377	377	5
Total	51	1103	1103	57

TLR NNL Totals

CA	NNL Relief	
	IDC MVV	RC Ackn MVV
EES	45.0	45.0
SPA	8.0	8.0
Total	53.0	53.0

Date	Time	Category	Issue
04/16/11	0832	ICP/LAP Assessment	assessed as ICP
04/16/11	0928	TA Notification	notified the ICT tariff to zero afc's
04/16/11	0928	TLR - 4 Initial	issued tlr4 pc 108% ref# 412084
04/16/11	0928	No Internal NonFirm Tags	
04/16/11	1014	TLR - 5b Initial	Issued tlr5b pc103% EES NNL 16.6, SPA NNL 2.9
04/16/11	1014	TLR - Redispatch Question	already in tlr 4
04/16/11	1030	No Internal NonFirm Tags	
04/16/11	1030	TLR - Redispatch Question	no known redispatch options available to the customer and no conditional firm schedules for the constrained flowgate
04/16/11	1134	No Internal NonFirm Tags	
04/16/11	1134	TLR - 5a Initial	re-issue tlr5a pc93% EES NNL - 1.0 total 15.6, SPA NNL 2.9
04/16/11	1134	TA Notification	
04/16/11	1230	No Internal NonFirm Tags	
04/16/11	1230	TLR - 5a Reissue	re-issue tlr5a pc 88% EES NNL - 3.3 total 12.3, SPA NNL -1.2 total 2.3
04/16/11	1332	No Internal NonFirm Tags	
04/16/11	1332	TLR - 5a Reissue	
04/16/11	1429	No Internal NonFirm Tags	
04/16/11	1429	TA Notification	
04/16/11	1429	TLR - 4 Initial	ended tlr5. issued tlr4 pc89% updated ref# 412084

04/16/11	1530	TLR - 1	ended tlr4 issued tlr1 pc83% updated ref# 412084
04/16/11	1530	TA Notification	
04/17/11	1331	TLR - 0	ended tlr1 issued tlr0 pc71% ref#412084