

**ICTE TLR 5 Investigation Report
Flowgate 17080
(ISES AT2 500/230 kV for the loss of ISES - Dell)
TLR Level 5: April 18, 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 18, 2011. Flowgate 17080 is an Entergy flowgate. The TLR 5 was in effect from 9:26 AM until 04:30 PM on April 18, 2011. Projected post-contingent flows on the ISES AT2 500/230 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 5a was issued, the Limiting Element was rated at 425 MVA. Flow on the Limiting Element was 251 MVA. Flow on the Contingent Element was 982 MVA. The LODF was approximately 21%. Post-contingent flow on the Limiting Element was approximately 454 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 the 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 157 MW of NNL. SPA had 36 MW of NNL.

Event History

Issuing RC: ICTE
Flowgate: 17080 - ISES AT2 ftlo ISES - Dell
Event Begin: 2011-04-18 07:15
Event End: 2011-04-18 17:30
Event Duration: 10 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 1	04/18/2011 07:15	04/18/2011 07:03	04/18/2011 07:03:42	0.0	0.0	0.0	0	0
TLR Level 4	04/18/2011 08:30	04/18/2011 08:18	04/18/2011 08:16:42	0.0	0.0	0.0	2	118
TLR Level 5A	04/18/2011 10:00	04/18/2011 09:29	04/18/2011 09:26:12	47.0	0.0	47.7	17	216
TLR Level 5A	04/18/2011 11:00	04/18/2011 10:32	04/18/2011 10:29:56	15.0	0.0	47.8	17	204
TLR Level 5A	04/18/2011 12:00	04/18/2011 11:29	04/18/2011 11:26:30	13.0	0.0	46.3	16	168
TLR Level 5A	04/18/2011 13:00	04/18/2011 12:37	04/18/2011 12:35:51	11.0	0.0	44.4	15	171
TLR Level 5A	04/18/2011 14:00	04/18/2011 13:28	04/18/2011 13:26:14	8.0	0.0	40.3	15	141
TLR Level 5A	04/18/2011 15:00	04/18/2011 14:27	04/18/2011 14:25:52	0.0	0.0	29.0	16	107
TLR Level 5A	04/18/2011 16:00	04/18/2011 15:31	04/18/2011 15:28:44	0.0	0.0	18.3	15	87
TLR Level 5A	04/18/2011 17:00	04/18/2011 16:30	04/18/2011 16:28:06	0.0	0.0	13.2	3	200
TLR Level 0	04/18/2011 17:30	04/18/2011 17:17	04/18/2011 17:17:28	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_17080_20110418_0615.htm

Incident: ICTE_17080_20110418_0615	Date: 04/18/2011	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 17080 - ISES AT2 ftlo ISES - Dell	Rating: 425	LODF: 21.92%
TLR Direction: Normal		
Effective StartTime: 04/18/2011 07:15	Effective EndTime: 04/18/2011 17:30	TLR Duration: 10 Hours and 15 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								INL Relief			Market Relief				Flow			TLR Action Comments
				Total Tags Cut / Hold		IDC Cut		RC Cut Acknowledge		Hold		CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow	
				MW	Relief	MW	Relief	MW	Relief	MW	Relief											
Apr 18 07:03	TLR 1	CURRENT		NONE								NONE			NONE				222	409	854	N/A
Apr 18 08:18	TLR 4	CURRENT	2-NH	1 / 0	88	8.0	88	8.0	0	0.0	NONE			NONE				245	458	976	N/A	
			8-NN	1 / 0	82	2.8	82	2.8	0	0.0												
			Total	2 / 0	118	8.8	118	8.8	0	0.0												
Apr 18 09:29	TLR 5A	NEXT	8-NN	1 / 0	52	2.7	52	2.7	0	0.0	NONE			NONE				251	455	882	N/A	
			7-F	15 / 1	164	12.9	121	10.0	5	0.3	EES	28.0	28.0	NONE								
			Total	17 / 1	216	15.5	173	12.7	5	0.3	Total	32.0	32.0									
Apr 18 10:32	TLR 5A	NEXT	8-NN	1 / 0	51	2.6	51	2.6	0	0.0	NONE			NONE				238	431	892	N/A	
			7-F	16 / 0	153	12.4	153	12.4	0	0.0	EES	27.0	27.0	NONE								
			Total	17 / 0	204	15.1	204	15.1	0	0.0	Total	33.0	33.0									
Apr 18 11:29	TLR 5A	NEXT	2-NH	0 / 1	0	0.0	0	0.0	31	2.7	NONE			NONE				228	423	893	N/A	
			8-NN	1 / 0	15	0.8	15	0.8	0	0.0	EES	27.0	27.0	NONE								
			Total	16 / 1	168	13.6	168	13.6	31	2.7	Total	33.0	33.0									
Apr 18 12:37	TLR 5A	NEXT	7-F	15 / 0	171	12.6	171	12.6	0	0.0	NONE			NONE				220	395	801	N/A	
			7-F	15 / 0	171	12.6	171	12.6	0	0.0	EES	26.0	26.0	NONE								
			Total	15 / 0	171	12.6	171	12.6	0	0.0	Total	32.0	32.0									
Apr 18 13:28	TLR 5A	NEXT	7-F	15 / 0	141	10.9	141	10.9	0	0.0	NONE			NONE				233	411	815	N/A	
			7-F	15 / 0	141	10.9	141	10.9	0	0.0	EES	24.0	24.0	NONE								
			Total	15 / 0	141	10.9	141	10.9	0	0.0	Total	30.0	30.0									
Apr 18 14:27	TLR 5A	NEXT	7-F	16 / 0	107	8.3	107	8.3	0	0.0	NONE			NONE				220	335	757	N/A	
			7-F	16 / 0	107	8.3	107	8.3	0	0.0	EES	17.0	17.0	NONE								
			Total	16 / 0	107	8.3	107	8.3	0	0.0	Total	21.0	21.0									
Apr 18 15:31	TLR 5A	NEXT	7-F	15 / 0	87	6.3	87	6.3	4	0.0	NONE			NONE				214	384	777	N/A	
			7-F	15 / 0	87	6.3	87	6.3	4	0.0	EES	10.0	10.0	NONE								
			Total	15 / 0	87	6.3	87	6.3	4	0.0	Total	12.0	12.0									
Apr 18 15:30	TLR 5A	NEXT		NONE								NONE			NONE				217	377	732	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	1	66	66	31
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	4	170	170	0
7	106	978	999	5
Total	113	1212	1135	36

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	157.0	157.0
SPA	36.0	36.0
Total	193.0	193.0

Date	Time	Category	Issue
04/18/11	0659	ICP/LAP Assessment	assessed as ICP PC 91%.
04/18/11	0703	TLR - 1	issued TLR 1 PC 93% Notified Ryan. REF. 412476
04/18/11	0818	TLR - 4 Initial	issued TLR 4 PC 105%. Notified EES REF. 412476.
04/18/11	0818	TA Notification	Talked to ICT Tariff and they do not have this flowgate listed.
04/18/11	0830	No Internal NonFirm Tags	
04/18/11	0920	Internal Non-Firm	"As provided in the email to the Shift Supervisor, the ICT RC has issued a TLR Level 4 on Flowgate 17080 ISES AT2 ftlo ISES - Dell. At this time Entergy is instructed to curtail the non-firm portion of Schedules 0511744 and 0511754. These curtailments should remain in place until the TLR level is reduced below a TLR 3."
04/18/11	0926	TLR - 5a Initial	Issued TLR 5A, PC 106%, EES notified,>NNL: EES 26.2 and SPA 6
04/18/11	0940	TLR - Redispatch Question	Talked to EES shift supervisor and asked "are there any known redispatch options that are available to the transmission customer that will mitigate the loading on the constrained facility"? He replied that there were none available.

04/18/11	1032	TLR - 5a Reissue	reissued TLR 5a PC 99%. EES NNL 26.6, SPA 6.1.
04/18/11	1032	No Internal NonFirm Tags	
04/18/11	1129	TLR - 5a Reissue	reissued TLR 5a PC 97%. EES NNL 26.6, SPA 6.2
04/18/11	1129	No Internal NonFirm Tags	
04/18/11	1237	TLR - 5a Reissue	reissued TLR 5a PC 90%. EES NNL 25.7, LAGN NNL 6.0
04/18/11	1237	No Internal NonFirm Tags	
04/18/11	1328	TLR - 5a Reissue	reissued TLR 5a PC 94%. EES NNL 23.9, SPA NNL 5.5.
04/18/11	1328	No Internal NonFirm Tags	
04/18/11	1427	No Internal NonFirm Tags	
04/18/11	1427	TLR - 5a Reissue	reissued TLR 5a PC 88%. NNL EES 16.9, SPA 3.8
04/18/11	1531	No Internal NonFirm Tags	
04/18/11	1531	TLR - 5a Reissue	reissued TLR 5a PC 88%. NNL EES 9.8, SPA 2.2
04/18/11	1630	Internal Non-Firm	<p>“As provided in the email to the Shift Supervisor, the ICT RC has issued a TLR Level 5a on Flowgate 17080 ISES AT2 ftlo ISES - Dell. At this time Entergy is instructed to curtail the non-firm portion of Schedules 0511776. These curtailments should remain in place until the TLR level is reduced below a TLR 3.”</p>