

**ICTE TLR 5 Investigation Report
Flowgate 17201
(Osceola-Wilson 161kV ftlo Sans Souci-Shelby 500kV)
TLR Level 5: June 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 17201 on June 18, 2011. Flowgate 17201 is an Entergy flowgate. The TLR 5 was in effect from 1:49 PM June 18, 2011 until 7:31 PM on June 20. Projected post-contingent flows on the Osceola-Wilson 161 kV ftlo San Souci - Shelby 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 155 MVA. Flow on the Limiting Element was 54 MVA. Flow on the Contingent Element was 1618 MVA. The LODF was approximately 7%. Post-contingent flow on the Limiting Element was approximately 172 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 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 West Memphis-Keo 500 kv line that impacted the TLR 5 event. There were also heavy flows from West to East on the 500 kv system. The underlying 161 kv system was experiencing high post contingent loading for the loss of SanSouci-Shelby 500 kv line. The unplanned outage, heavy flows to the East and load and generation patterns caused the need for the TLR 5.

5. Procedures implemented prior to hold/curtailment.

There were not enough 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.

The following were excluded due to EEA 3: EES_LAGM01CWBJSN18_WMU,
EES_LAGM01WISJSN18_WMU

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 is not an AFC Flowgate.

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

This TLR was caused by a combination of a transmission outage, 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.

SME had 39 MW of NNL.

Event History

Issuing RC: ICTE
Flowgate: 17201 - Osceola-Wilson 161kV fto Sans Souci-Shelby 500kV
Event Begin: 2011-06-18 14:15
Event End: 2011-06-19 00:45
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 SA	06/18/2011 14:15	06/18/2011 13:49	06/18/2011 13:48:35	39.0	15.4	23.6	10	318
TLR Level SA	06/18/2011 15:00	06/18/2011 14:40	06/18/2011 14:38:16	62.0	40.3	21.7	9	294
TLR Level SA	06/18/2011 16:00	06/18/2011 15:29	06/18/2011 15:28:17	25.0	5.9	19.1	7	262
TLR Level SA	06/18/2011 17:00	06/18/2011 16:32	06/18/2011 16:31:37	41.0	22.0	19.0	7	262
TLR Level SA	06/18/2011 18:00	06/18/2011 17:32	06/18/2011 17:31:40	10.0	0.0	14.7	7	205
TLR Level SA	06/18/2011 19:00	06/18/2011 18:32	06/18/2011 18:31:35	8.0	0.0	11.4	7	161
TLR Level SA	06/18/2011 20:00	06/18/2011 19:28	06/18/2011 19:28:11	12.0	0.0	14.6	7	206
TLR Level SA	06/18/2011 21:00	06/18/2011 20:31	06/18/2011 20:31:07	17.0	0.0	18.5	7	262
TLR Level SA	06/18/2011 22:00	06/18/2011 21:31	06/18/2011 21:30:16	16.0	0.0	18.1	7	262
TLR Level SA	06/18/2011 23:00	06/18/2011 22:30	06/18/2011 22:29:13	9.0	0.0	12.7	7	188
TLR Level SA	06/19/2011 00:00	06/18/2011 23:32	06/18/2011 23:31:06	0.0	0.0	0.0	0	0
TLR Level 0	06/19/2011 00:45	06/19/2011 00:30	06/19/2011 00:30:22	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_17201_20110618_1315.htm

Incident: ICTE_17201_20110618_1315 **Date:** 06/18/2011 **Reliability Coordinator:** ICTE
Initial Conditions: N/A
Flowgate: 17201 - Osceola-Wilson 161kV fto Sans... **Rating:** 148 **LODF:** 7.08%
TLR Direction: Normal
Effective StartTime: 06/18/2011 14:15 **Effective EndTime:** 06/19/2011 00:45 **TLR Duration:** 10 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 MW	Relief MW	RC Cut Acknowledge MW	Relief MW	Hold MW	Relief MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow	
Jun 18 13:48	TLR SA	NEXT	7-F	10 / 0	318	19.0	318	19.0	0	0.0	SME	5.0	5.0	NONE				54	158	1618	N/A
			Total	10 / 0	318	19.0	318	19.0	0	0.0	Total	5.0	5.0								
Jun 18 14:40	TLR SA	NEXT	7-F	9 / 0	294	17.0	294	17.0	0	0.0	SME	5.0	5.0	NONE				53	159	1512	N/A
			Total	9 / 0	294	17.0	294	17.0	0	0.0	Total	5.0	5.0								
Jun 18 15:29	TLR SA	NEXT	7-F	7 / 0	262	14.6	262	14.6	0	0.0	SME	5.0	5.0	NONE				54	151	1374	N/A
			Total	7 / 0	262	14.6	262	14.6	0	0.0	Total	5.0	5.0								
Jun 18 16:32	TLR SA	NEXT	7-F	7 / 0	262	14.6	262	14.6	0	0.0	SME	4.0	5.0	NONE				53	149	1360	N/A
			Total	7 / 0	262	14.6	262	14.6	0	0.0	Total	4.0	5.0								
Jun 18 17:32	TLR SA	NEXT	7-F	7 / 0	205	11.4	205	11.4	0	0.0	SME	3.0	3.0	NONE				57	150	1325	N/A
			Total	7 / 0	205	11.4	205	11.4	0	0.0	Total	3.0	3.0								
Jun 18 18:32	TLR SA	NEXT	7-F	7 / 0	161	9.0	161	9.0	0	0.0	SME	2.0	3.0	NONE				53	157	1475	N/A
			Total	7 / 0	161	9.0	161	9.0	0	0.0	Total	2.0	3.0								
Jun 18 19:28	TLR SA	NEXT	7-F	7 / 0	206	11.5	206	11.5	0	0.0	SME	3.0	3.0	NONE				50	156	1504	N/A
			Total	7 / 0	206	11.5	206	11.5	0	0.0	Total	3.0	3.0								
Jun 18 20:31	TLR SA	NEXT	7-F	7 / 0	262	14.6	262	14.6	0	0.0	SME	4.0	4.0	NONE				50	151	1440	N/A
			Total	7 / 0	262	14.6	262	14.6	0	0.0	Total	4.0	4.0								
Jun 18 21:31	TLR SA	NEXT	7-F	7 / 0	262	14.6	262	14.6	0	0.0	SME	4.0	4.0	NONE				49	151	1447	N/A
			Total	7 / 0	262	14.6	262	14.6	0	0.0	Total	4.0	4.0								
Jun 18 22:30	TLR SA	NEXT	7-F	7 / 0	188	10.5	188	10.5	0	0.0	SME	2.0	2.0	NONE				52	151	1403	N/A
			Total	7 / 0	188	10.5	188	10.5	0	0.0	Total	2.0	2.0								
Jun 18 23:32	TLR SA	NEXT	7-F	0 / 1	0	0.0	0	0.0	3	0.2	NONE			NONE				52	135	1174	N/A
			Total	0 / 1	0	0.0	0	0.0	3	0.2											
Jun 19 00:30	TLR 0	CURRENT									NONE			NONE				53	144	1295	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	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	75	2420	2420	3
Total	75	2420	2420	3

TLR>NNL Totals

CA	>NNL Relief	
	IDC MW	RC Ackn MW
SME	37.0	39.0
Total	37.0	39.0

Date	Time	Category	'Detail'
06/18/11	1022	Flow Gate Assessment	Assessed as ICP, PC 105%
			Requested the transmission operator to identify any known redispatch options that are available to the transmission customer that will mitigate the loading on the Constrained Facilities. EES said that there were none.
06/18/11	1349	TLR - Redispatch Question	Also, asked if there are any conditional firm schedules for the constrained flowgate. EES said that there were none.
06/18/11	1349	TLR - 5a Initial	PC 111%, No AFCs, Ref 443700
06/18/11	1349	TA Notification	FG not defined
06/18/11	1349	No Internal NonFirm Tags	
06/18/11	1440	TLR - 5a Reissue	PC 110%, No AFCs
06/18/11	1440	No Internal NonFirm Tags	
06/18/11	1529	No Internal NonFirm Tags	
06/18/11	1529	TLR - 5a Reissue	PC 99%, No AFCs
06/18/11	1632	TLR - 5a Reissue	PC 99%, No AFCs
06/18/11	1632	No Internal NonFirm Tags	
06/18/11	1732	TLR - 5a Reissue	PC 96%. SME>NNL 3.3
06/18/11	1802	No Internal NonFirm Tags	
06/18/11	1832	TLR - 5a Reissue	
06/18/11	1853	No Internal NonFirm Tags	
06/18/11	1928	TLR - 5a Reissue	
06/18/11	1929	No Internal NonFirm Tags	
06/18/11	2031	TLR - 5a Reissue	
06/18/11	2032	No Internal NonFirm Tags	
06/18/11	2131	TLR - 5a Reissue	
06/18/11	2132	No Internal NonFirm Tags	

06/18/11	2230	TLR - 5a Reissue	
06/18/11	2231	No Internal NonFirm Tags	
06/18/11	2332	TLR - 5a Reissue	
06/18/11	2333	No Internal NonFirm Tags	
06/19/11	0030	TLR - 0	OASIS Ref# 443700
06/19/11	0031	TA Notification	Not built in Tariff