

**ICTE TLR 5 Investigation Report**  
**Flowgate 17238**  
**(Ozark Beach-Omaha 161 kV ftlo Eureka Springs-Osage 161 kV)**  
**TLR Level 5: June 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 17238 on June 16, 2011. Flowgate 17238 is an Entergy flowgate. The TLR 5 was in effect from 4:06 PM until 6:28 PM on June 16, 2011. Projected post-contingent flows on the Ozark Beach-Omaha 161 kV ftlo Eureka Springs-Osage 161 kV 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 153 MVA. Flow on the Limiting Element was 93 MVA. Flow on the Contingent Element was 165 MVA. The LODF was approximately 45.4%. Post-contingent flow on the Limiting Element was approximately 168 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 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.

External increment generation in the area was decreased and external decrement generation in the area was increased which impacted this TLR 5 event.

**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.**

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 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.**

SPA had 21 MW of NNL.

### Event History

Issuing RC:	ICTE							
Flowgate:	17238 - Ozark Beach-Omaha 161kv ftlo Eureka Springs-Osage 161kv							
Event Begin:	2011-06-16 16:15							
Event End:	2011-06-16 20:00							
Event Duration:	4 Hours							
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
<a href="#">TLR Level SB</a>	06/16/2011 16:15	06/16/2011 16:06	06/16/2011 16:04:21	33.0	21.4	11.6	1	50
<a href="#">TLR Level SA</a>	06/16/2011 18:00	06/16/2011 17:36	06/16/2011 17:33:38	10.0	0.0	10.9	1	50
<a href="#">TLR Level SA</a>	06/16/2011 19:00	06/16/2011 18:28	06/16/2011 18:26:32	0.0	0.0	5.2	1	25
<a href="#">TLR Level 0</a>	06/16/2011 20:00	06/16/2011 19:26	06/16/2011 19:26:11	0.0	0.0	0.0	0	0

### Event Summary

FILE SAVED AS: ICTE\_17238\_20110616\_1515.htm

Incident: ICTE_17238_20110616_1515	Date: 06/16/2011	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 17238 - Ozark Beach-Omaha 161kv fto E...	Rating: 134	LODF: 41.24%
TLR Direction: Normal		
Effective StartTime: 06/16/2011 16:15	Effective EndTime: 06/16/2011 20:00	TLR Duration: 3 Hours and 45 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	RC Cut Acknowledge MW	Hold MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.		Cont. Flow		
Jun 16 16:06	TLR 5B	CURRENT	7-F	1 / 0	50	2.7	50	2.7	0	0.0	SPA	9.0	9.0	NONE			93	151	155	N/A
		TOTAL	1 / 0	50	2.7	50	2.7	0	0.0	SPA	9.0	9.0								
Jun 16 17:36	TLR 5A	NEXT	7-F	1 / 0	50	2.6	50	2.6	0	0.0	NONE			NONE						
		TOTAL	1 / 0	50	2.6	50	2.6	0	0.0	NONE										
Jun 16 17:36	TLR 5A	NEXT	7-F	1 / 0	50	2.6	50	2.6	0	0.0	SPA	8.0	8.0	NONE			73	136	155	N/A
Jun 16 15:25	TLR 5A	NEXT	7-F	1 / 0	25	1.3	25	1.3	0	0.0	SPA	4.0	4.0	NONE			78	128	122	N/A
Jun 16 19:26	TLR 0	CURRENT												NONE			71	116	110	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	4	175	175	0
<b>Total</b>	<b>4</b>	<b>175</b>	<b>175</b>	<b>0</b>

### TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
SPA	21.0	21.0
<b>Total</b>	<b>21.0</b>	<b>21.0</b>

Date	Time	Category	'Detail'
06/16/11	1605	TLR - Redispatch Question	SOC stated that there were no known redispatch options available and there are no conditional firm schedules for the constrained flowgate
06/16/11	1606	TLR - 5b Initial	Issued TLR5B pc 110%. SPA NNL 8.9. Ref# 442852. FG assessed as LAP but spoke with EES and they had no redispatch options to mitigate the heavy loading on the flowgate.
06/16/11	1607	No Internal NonFirm Tags	
06/16/11	1608	TA Notification	Spoke with tariff and he informed that the flowgate was not modeled
06/16/11	1736	No Internal NonFirm Tags	
06/16/11	1736	TLR - 5a Reissue	re-issued tlr5a pc 94% SPA NNL 8.2 OASIS Ref 442852

			EES says EES is showing 134 line rating due to line bay riser @ Osage Beach. EES is waiting on customer information before they will increase the line rating.
06/16/11	1820	Transmission	EDE needs to pass new line rating info to EES configuration management group.
06/16/11	1828	TLR - 5a Reissue	re-issued tlr5a pc 87% SPA NNL 3.9
06/16/11	1830	No Internal NonFirm Tags	
06/16/11	1926	TLR - 0	Issued TLR0 Pc75% OASIS Ref 442852
06/16/11	1930	TA Notification	not on ICT TA list