

**ICTE TLR 5 Investigation Report**  
**Flowgate 17115**  
**(Batesville – Marks 115kV for the loss of Moon Lake – Crossroads 230kV)**  
**TLR Level 5: April 27, 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 17115 on April 27, 2011. Flowgate 17115 is an Entergy flowgate. The TLR 5 was in effect from 3:45 PM until 8:00 PM on April 27, 2011. Projected post-contingent flows on Batesville – Marks 115kV for the loss of Moon Lake – Crossroads 230kV 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 120 MVA. Flow on the Limiting Element was 87 MVA. Flow on the Contingent Element was 144 MVA. The LODF was approximately 37%. Post-contingent flow on the Limiting Element was approximately 140 MVA.

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

TLRs levels, timing and relief requested amounts are shown on page 3.

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

- There were 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.

There were unplanned transmission outages on the Richie – Tunica 230kV line, the Tunica – Lula 115kV line and Indianola – Tillatobia 230kV lines due to storm damage that impacted the TLR 5 event. External decrement generation near the constraint was operating at or near PMax.

**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 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 generation patterns, unplanned outages, 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.**

Entergy had 4 MW of NNL. SME had 17 MW of NNL.

## Event History

**Issuing RC:** ICTE  
**Flowgate:** 17115 - Batesville - Marks 115kv ftlo Moon Lake - Crossroads 230kv  
**Event Begin:** 2011-04-27 15:45  
**Event End:** 2011-04-27 20:00  
**Event Duration:** 5 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
<a href="#">TLR Level 5B</a>	04/27/2011 15:45	04/27/2011 15:27	04/27/2011 15:26:39	25.0	0.0	25.2	3	182
<a href="#">TLR Level 5A</a>	04/27/2011 17:00	04/27/2011 16:44	04/27/2011 16:42:31	37.0	0.0	44.0	3	397
<a href="#">TLR Level 5A</a>	04/27/2011 18:00	04/27/2011 17:34	04/27/2011 17:32:10	33.0	0.0	41.5	2	322
<a href="#">TLR Level 5A</a>	04/27/2011 19:00	04/27/2011 18:29	04/27/2011 18:27:41	21.0	0.0	29.7	2	231
<a href="#">TLR Level 0</a>	04/27/2011 20:00	04/27/2011 19:29	04/27/2011 19:28:08	0.0	0.0	0.0	0	0

### Event Summary

FILE SAVED AS: ICTE\_17115\_20110427\_1445.htm

Incident: ICTE_17115_20110427_1445	Date: 04/27/2011	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 17115 - Batesville - Marks 115kv ftlo ...	Rating: 120	LODF: 36.38%
TLR Direction: Normal		
Effective StartTime: 04/27/2011 15:45	Effective EndTime: 04/27/2011 20:00	TLR Duration: 4 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	RC Cut Acknowledge MW	Hold MW	Relief MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.		Cont. Flow			
Apr 27 15:27	TLR 5B	CURRENT	7-F	3 / 0	182	18.3	182	18.3	0	0.0	EES	4.0	4.0	NONE				87	139	144	N/A	
		Total	3 / 0	182	18.3	182	18.3	0	0.0	SME	3.0	3.0										
Apr 27 16:44	TLR 5A	NEXT	7-F	2 / 0	140	16.1	140	16.1	0	0.0	NONE			NONE								
		Total	2 / 0	182	16.1	140	16.1	0	0.0	SME	4.0	4.0						74	121	130	N/A	
Apr 27 17:34	TLR 5A	NEXT	7-F	2 / 1	322	37.0	322	37.0	159	18.3	SME	4.0	6.0	NONE				55	92	103	N/A	
		Total	2 / 1	322	37.0	322	37.0	159	18.3	SME	4.0	5.0										
Apr 27 18:29	TLR 5A	NEXT	7-F	2 / 0	231	26.7	231	26.7	0	0.0	SME	3.0	5.0	NONE				59	97	107	N/A	
		Total	2 / 0	231	26.7	231	26.7	0	0.0	SME	3.0	5.0										
Apr 27 19:29	TLR 0	CURRENT			NONE					NONE			NONE				38	61	70	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	12	1272	1272	159
<b>Total</b>	<b>12</b>	<b>1272</b>	<b>1272</b>	<b>159</b>

### TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	4.0	4.0
SME	14.0	17.0
<b>Total</b>	<b>18.0</b>	<b>21.0</b>

Date	Time	Category	Issue
04/27/11	1427	Built new Flowgate	Built FG per EES SOC
04/27/11	1440	ICP/LAP Assessment	Assessed as LAP, EES SOC notified

04/27/11	1527	TLR - 5b Initial	Issued TLR 5b due to PC 110% EES notified. REF# 416430 Moved to TLR 5B due to loading in Miss. Area due to storm damage.
04/27/11	1527	TLR - Redispatch Question	Called EES SOC supervisor to identify any known redispatch options that are available to the transmission customer that will mitigate the loading on the Constrained Facilities which is FG 17115. SOC supervisor answered no redispatch option at this time. He stated he would check on conditional firm schedules on the Constrained Facilities and call me back.
04/27/11	1527	No Internal NonFirm Tags	
04/27/11	1527	TA Notification	not in ICT Tariff system.
04/27/11	1626	TLR - Redispatch Question	EES SOC Walter called to inform that there was no conditional firm tags.
04/27/11	1644	TLR - Redispatch Question	EES SOC confirmed that there were no conditional firm pertaining to this FG
04/27/11	1644	No Internal NonFirm Tags	
04/27/11	1644	TLR - 5a Initial	Ended TLR 5b and Issued TLR 5A PC 96%, SOCO NNL 4.2
04/27/11	1644	TA Notification	TA does not have this FG in their system
04/27/11	1730	No Internal NonFirm Tags	
04/27/11	1730	TLR - 5a Reissue	
04/27/11	1827	TLR - 0	Issued TLR 0 on flowgate PC 53% . OASIS Ref#416430
04/27/11	1827	No Internal NonFirm Tags	