

ICTE TLR 5 Investigation Report
Flowgate 16556
(Russellville E – Russellville S 161kV for the loss of ANO – Ft. Smith 500 kV)
TLR Level 5: August 9, 2010
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 16556 on August 9, 2010. Flowgate 16556 is an Entergy flowgate. The TLR 5 was in effect from 6:43 PM until 8:38 PM on August 9, 2010. Projected post-contingent flows on the Russellville E – Russellville S 161kV for the loss of ANO – Ft. Smith 500 kV 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 335 MVA. Flow on the Limiting Element was 161 MVA. Flow on the Contingent Element was 536 MVA. The LODF was approximately 29%. Post-contingent flow on the Limiting Element was approximately 314 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.

5. Procedures implemented prior to hold/curtailment.

Curtailed non-firm transactions, not enough non-firm to alleviate the flowgate.

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. ICT Tariff Administration was not granting any transmission requests that impacted the congested flowgate by 3 % or greater at the time of the TLR 5.

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

This TLR was caused by a combination of 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.

Entergy achieved their NNL obligation by moving generation on White Bluff.

Event History								
Issuing RC:		ICTE						
Flowgate:		16556 - Russelville E-Russelville S 161kv FTLO ANO-Ft.Smith 500kv (MKT COOR)						
Event Begin:		2010-08-09 19:00						
Event End:		2010-08-09 23:45						
Event Duration:		4 Hours						
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 5A	08/09/2010 19:00	08/09/2010 18:43	08/09/2010 18:41:43	123.0	0.0	124.1	22	355
TLR Level 5A	08/09/2010 20:00	08/09/2010 19:33	08/09/2010 19:27:35	9.0	0.0	90.3	2	154
TLR Level 5A	08/09/2010 21:00	08/09/2010 20:38	08/09/2010 20:36:01	0.0	0.0	132.2	14	527
TLR Level 1	08/09/2010 21:45	08/09/2010 21:26	08/09/2010 21:26:15	0.0	0.0	0.0	0	0
TLR Level 0	08/09/2010 23:45	08/09/2010 23:35	08/09/2010 23:35:10	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_16556_20100809_1800.htm

Incident: ICTE_16556_20100809_1800	Date: 08/09/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 16556 - Russelville E-Russelville S ...	Rating: 335	LODF: 28.66%
TLR Direction: Normal		
Effective StartTime: 08/09/2010 19:00	Effective EndTime: 08/09/2010 23:45	TLR Duration: 4 Hours and 45 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule						NNL Relief			Market Relief				Flow		Cont. Flow	TLR Action Comments	
				Total Tags Cut / Hold	IDC Cut MW	Relief MW	RC Cut Acknowledge MW	Relief MW	Hold MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.			
Aug 09 18:40	TLR 5A	NEXT	6-NN 7-F Total	1 / 0 19 / 0 20 / 0	100 100 200	6.9 9.9 16.8	100 100 200	6.9 9.9 16.8	0 0 0	0.0 0.0 0.0	AECI EES Total	5.0 6.0 11.0	5.0 6.0 11.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPPP SWPPP SWPPP SWPPP	0.0 42.0 41.5 0.0 83.5	0.0 42.0 41.5 0.0 83.5	161	314	538	N/A
Aug 09 19:33	TLR 5A	NEXT	6-NN Total	2 / 0 2 / 0	154 154	12.3 12.3	154 154	12.3 12.3	0 0	0.0 0.0	NONE			ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPPP SWPPP SWPPP SWPPP	0.0 55.0 23.0 0.0 78.0	0.0 55.0 23.0 0.0 78.0	149	280	468	N/A
Aug 09 20:38	TLR 5A	NEXT									NONE			ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPPP SWPPP SWPPP SWPPP	0.0 48.0 30.0 0.0 78.0	0.0 48.0 30.0 0.0 78.0	151	269	415	N/A
Aug 09 21:26	TLR 1	CURRENT									NONE							143	262	418	N/A
Aug 09 23:35	TLR 0	CURRENT									NONE							105	157	182	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	3	254	254	0
7	19	100	100	0
Total	22	354	354	0

TLR NNL Totals

NNL Relief		
CA	IDC MW	RC Ackn MW
AECI	5.0	5.0
EES	6.0	6.0
Total	11.0	11.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPPP	ED-2	0.0	0.0
	ED-6	145.0	145.0
	FIRM-7	94.5	94.5
Total for SWPPP		239.5	239.5
Total		239.5	239.5

8/9/10	1843	Internal non-firm schedules were checked and no internal non-firm schedules to curtail at this time.	Internal Non-Firm
8/9/10	1843	Issued the TLR 5a on this FG16556, which was built in IDC (Mkt Coordinated) FG14804 was not MKT Coordinated and was taken to TLR 0 effective 19:00 REF 277664	TLR - 5a Initial
8/9/10	1907	Effective 19:07 called Watler EES SOC supervisor to ask him to identify any known redispatch options that are available to the transmission customer that will mitigate the loading on the Constrained Facilities which are FG 16556 Russellville E-Russellville S 161kv FTLO ANO-Ft.Smith 500kv (MKT COOR). Walter EES SOC Supervisor stated that there are none available.	TLR - Redispatch Question
8/9/10	1910	Called Bill ICT Tariff desk to ask for the non-firm AFC's to be zero's for this FG 16556. Bill stated that there is non FG in ICT Tariff system at this time.	TLR - 5a Initial
8/9/10	1933	Re-issued TLR 5a PC 80% No NNL this hour.	TLR - 5a Reissue
8/9/10	1934	No new internal schedules to curtail.	Internal Non-Firm
8/9/10	2038	Re-issued TLR 5a PC 76% No NNL this hour	TLR - 5a Reissue
8/9/10	2039	No new internal schedules to curtail.	Internal Non-Firm
8/9/10	2126	Issued TLR 1 to end TLR 5a PC 79% Decided to end TLR-5 due to schedules being curtailed with the other TLR-5's on FG 1966 and 16470.	TLR - 1
8/9/10	2335	Issued TLR - 0 PC 46% Ended REF#277664	TLR - 0