

ICTE TLR 5 Investigation Report
Flowgate 1966
(Sheridan - Mabelvale 500 kV for the loss of White Bluff - Keo 500 kV)
TLR Level 5: August 30, 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 1966 on August 30, 2010. Flowgate 1966 is an Entergy flowgate. The TLR 5 was in effect from 6:34 PM until 8:38 PM on August 30, 2010. Projected post-contingent flows on the Sheridan - Mabelvale 500 kV line for the loss of the White Bluff - Keo 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 1732 MVA. Flow on the Limiting Element was 1047 MVA. Flow on the Contingent Element was 1276 MVA. The LODF was approximately 77%. Post-contingent flow on the Limiting Element was approximately 2030 MVA.

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

TLRs levels, timing and relief requested amounts are shown on pages 2, 3 and 4.

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

There were no unplanned outages. ANO, Unit 2, was offline in a planned outage.

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 see an issue with this flowgate, based off of the peak study, however it was below 100%.

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 had no NNL obligation.

Event History									
Issuing RC:		ICTE							
Flowgate:		1966 - Sheridan - Mabelvale 500kv ftto White Bluff - Keo 500kv							
Event Begin:		2010-08-30 11:20							
Event End:		2010-08-30 22:35							
Event Duration:		11 Hours							
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts		
							Tags	MW	
TLR Level 1	08/30/2010 11:20	08/30/2010 11:08	08/30/2010 11:07:22	0.0	0.0	0.0	0	0	
TLR Level 3A	08/30/2010 13:00	08/30/2010 12:35	08/30/2010 12:30:21	182.0	0.0	182.2	12	643	
TLR Level 3A	08/30/2010 14:00	08/30/2010 13:27	08/30/2010 13:25:37	401.0	49.3	351.7	11	977	
TLR Level 3A	08/30/2010 15:00	08/30/2010 14:28	08/30/2010 14:27:24	420.0	65.3	354.7	10	906	
TLR Level 3A	08/30/2010 16:00	08/30/2010 15:27	08/30/2010 15:26:23	359.0	35.4	323.6	8	672	
TLR Level 3A	08/30/2010 17:00	08/30/2010 16:32	08/30/2010 16:30:21	351.0	26.4	324.6	8	667	
TLR Level 3A	08/30/2010 18:00	08/30/2010 17:35	08/30/2010 17:31:36	370.0	46.5	323.5	8	663	
TLR Level 5A	08/30/2010 19:00	08/30/2010 18:34	08/30/2010 18:32:10	281.0	0.0	326.1	9	696	
TLR Level 5A	08/30/2010 20:00	08/30/2010 19:32	08/30/2010 19:31:19	293.0	0.0	304.6	6	511	
TLR Level 5A	08/30/2010 21:00	08/30/2010 20:38	08/30/2010 20:34:04	97.0	0.0	307.6	7	536	
TLR Level 4	08/30/2010 21:55	08/30/2010 21:27	08/30/2010 21:26:03	0.0	0.0	0.0	0	0	
TLR Level 0	08/30/2010 22:35	08/30/2010 22:23	08/30/2010 22:21:24	0.0	0.0	0.0	0	0	

Event Summary

FILE SAVED AS: ICTE_1966_20100830_1020.htm

Incident: ICTE_1966_20100830_1020	Date: 08/30/2010	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1966 - Sheridan - Mabelvale 500kv ftl...	Rating: 1732	LODF: 76.90%
TLR Direction: Normal		
Effective StartTime: 08/30/2010 11:20	Effective EndTime: 08/30/2010 22:35	TLR Duration: 11 Hours and 15 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								NHL Relief			Market Relief				Flow			TLR Action Comments			
				Total Tags Cut / Hold	MV	Relief	IDC Cut	RC Cut Acknowledge	MV	Relief	MV	Relief	CA	IDC MV	RC Ackn MV	Type	Mkt	IDC MV	RC Ackn MV	Current	Post Cont.		Cont. Flow		
Aug 30 11:08	TLR 1	CURRENT		NONE								NONE			NONE				795	1659	1124	N/A			
Aug 30 12:55	TLR 3A	NEXT	1-NS 2-NH 5-NM 6-NN 7-F Total	1 / 1 1 / 1 1 / 0 9 / 1 0 / 1 12 / 4	20 150 8 487 0 643	1.2 18.5 0.3 49.2 0 69.3	20 150 8 487 0 643	1.2 18.5 0.3 49.2 0 69.3	20 150 8 487 0 643	1.2 18.5 0.3 49.2 0 69.3	20 150 8 487 0 643	1.2 18.5 0.3 49.2 0 69.3	NONE	ED-2 ED-8 FIRM-7 Total	SWPP SWPP SWPP 113.0 113.0	0.0 113.0 0.0 113.0	0.0 113.0 0.0 113.0	849	1714	1125	N/A				
Aug 30 13:27	TLR 3A	NEXT	2-NH 5-NM 6-NN Total	2 / 0 1 / 0 8 / 2 11 / 2	202 8 787 977	38.5 0.4 85.8 102.7	202 8 787 977	38.5 0.4 85.8 102.7	202 8 787 977	38.5 0.4 85.8 102.7	202 8 787 977	38.5 0.4 85.8 102.7	NONE	ED-2 ED-8 FIRM-7 Total	SWPP SWPP SWPP 249.0 249.0	0.0 249.0 0.0 249.0	0.0 249.0 0.0 249.0	873	1745	1135	N/A				
Aug 30 14:28	TLR 3A	NEXT	2-NH 5-NM 6-NN Total	2 / 0 1 / 0 7 / 0 10 / 0	202 9 895 906	38.5 0.5 88.7 105.7	202 9 895 906	38.5 0.5 88.7 105.7	202 9 895 906	38.5 0.5 88.7 105.7	202 9 895 906	38.5 0.5 88.7 105.7	NONE	ED-2 ED-8 FIRM-7 Total	SWPP SWPP SWPP 249.0 249.0	0.0 249.0 0.0 249.0	0.0 249.0 0.0 249.0	809	1677	1129	N/A				
Aug 30 15:27	TLR 3A	NEXT	2-NH 5-NM 6-NN Total	1 / 0 1 / 0 8 / 0 8 / 0	150 10 512 672	18.7 0.5 55.6 74.6	150 10 512 672	18.7 0.5 55.6 74.6	150 10 512 672	18.7 0.5 55.6 74.6	150 10 512 672	18.7 0.5 55.6 74.6	NONE	ED-2 ED-8 FIRM-7 Total	SWPP SWPP SWPP 249.0 249.0	0.0 249.0 0.0 249.0	0.0 249.0 0.0 249.0	887	1770	1149	N/A				
Aug 30 16:32	TLR 3A	NEXT	2-NH 5-NM 6-NN Total	1 / 0 1 / 0 8 / 0 8 / 0	150 4 513 667	18.7 0.2 56.7 75.6	150 4 513 667	18.7 0.2 56.7 75.6	150 4 513 667	18.7 0.2 56.7 75.6	150 4 513 667	18.7 0.2 56.7 75.6	NONE	ED-2 ED-8 FIRM-7 Total	SWPP SWPP SWPP 249.0 249.0	0.0 249.0 0.0 249.0	0.0 249.0 0.0 249.0	900	1799	1169	N/A				
Aug 30 17:52	TLR 3A	NEXT	2-NH 5-NM 6-NN 7-F Total	1 / 0 1 / 0 8 / 0 0 / 1 8 / 1	150 1 512 0 663	18.7 0.1 55.7 0 74.5	150 1 512 0 663	18.7 0.1 55.7 0 74.5	150 1 512 0 663	18.7 0.1 55.7 0 74.5	150 1 512 0 663	18.7 0.1 55.7 0 74.5	NONE	ED-2 ED-8 FIRM-7 Total	SWPP SWPP SWPP 249.0 249.0	0.0 249.0 0.0 249.0	0.0 249.0 0.0 249.0	882	1835	1240	N/A				
Aug 30 18:34	TLR 5A	NEXT	2-NH 5-NM 6-NN Total	1 / 0 1 / 0 7 / 0 9 / 0	150 9 537 696	19.3 0.5 57.4 77.1	150 9 537 696	19.3 0.5 57.4 77.1	150 9 537 696	19.3 0.5 57.4 77.1	150 9 537 696	19.3 0.5 57.4 77.1	NONE	ED-2 ED-8 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 249.0 249.0 0.0 0.0 249.0	0.0 249.0 0.0 0.0 249.0	0.0 249.0 0.0 0.0 249.0	1047	2028	1276	N/A				
Aug 30 19:32	TLR 5A	NEXT	6-NN Total	8 / 0 6 / 0	511 511	55.6 55.6	511 511	55.6 55.6	0 0	0 0	0 0	0 0	NONE	ED-2 ED-8 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 249.0 249.0 0.0 0.0 249.0	0.0 249.0 0.0 0.0 249.0	0.0 249.0 0.0 0.0 249.0	948	1857	1182	N/A				
Aug 30 20:38	TLR 5A	NEXT	6-NN 7-F Total	7 / 0 0 / 1 7 / 1	538 0 538	58.6 0.0 58.6	538 0 538	58.6 0.0 58.6	0 0 9	0 0 3.2	0 0 9	0 0 3.2	NONE	ED-2 ED-8 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 249.0 249.0 0.0 0.0 249.0	0.0 249.0 0.0 0.0 249.0	0.0 249.0 0.0 0.0 249.0	910	1780	1132	N/A				
Aug 30 21:27	TLR 4	CURRENT		NONE								NONE			ED-2 ED-8 FIRM-7 Total				SWPP SWPP SWPP 316.0 316.0	0.0 316.0 0.0 316.0	0.0 316.0 0.0 316.0	825	1667	1096	N/A
		NEXT	6-NN Total	3 / 0 3 / 0	255 256	26.2 26.2	255 256	26.2 26.2	0 0	0 0	0 0	0 0	NONE	NONE											
Aug 30 22:23	TLR 0	CURRENT		NONE								NONE			NONE				275	821	711	N/A			

TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MV	RC Cut Acknowledge MV	Hold MV
0	0	0	0	0
1	1	20	20	20
2	9	1154	1154	82
3	0	0	0	0
4	0	0	0	0
5	7	47	47	0
6	85	5306	5306	373
7	0	0	0	24
Total	82	6527	6527	469

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MV	RC Ackn MV
SWPP	ED-2	0.0	0.0
	ED-8	2421.0	2421.0
	FIRM-7	0.0	0.0
Total for SWPP		2421.0	2421.0
Total		2421.0	2421.0

Date	Time	Issue	Category
8/30/10	0856	Assessed FG as ICP. PC 92%.	ICP/LAP Assessment
8/30/10	1108	ICT issued TLR-1. PC 96%. OASIS posting # 286176 opened. EES (Roland) notified.	TLR - 1
8/30/10	1235	ICT issued TLR-3A. PC 99%. OASIS posting # 286176 updated. EES (Roland) notified.	TLR - 3a Initial
8/30/10	1236	Contacted ICT TA (Parker) to zero AFCs on FG.	TA Notification
8/30/10	1327	ICT reissued TLR-3A. PC 101%.	TLR - 3a Reissue
8/30/10	1428	ICT reissued TLR-3A. PC 97%.	TLR - 3a Reissue
8/30/10	1527	ICT reissued TLR-3A. PC 102%.	TLR - 3a Reissue
8/30/10	1618	Contacted EES SS (Fairchild) to ask if there were any redispatch options available to the transmission customer that would mitigate loading on the constrained facilities.	TLR - Redispatch Question
8/30/10	1632	ICT reissued TLR-3A. PC 104%. Prepared TLR-5A paperwork and flow gate dropped from 110 to 104%. With reduction decided to stay in TLR-3A.	TLR - 3a Reissue
8/30/10	1735	ICT reissued TLR-3A. PC 111%.	TLR - 3a Reissue
8/30/10	1834	ICT RC issued TLR 5A. Notified Sean EES and Johnny ICT Tariff to extend AFC's from 1900 through 0100. Updated Oasis REF. 286176. Contacted sean @ soc and was told no redispatch options available. @ 18:19 East Dc tie tripped. WB @ 850 & 822, Duke @ 540. issued TLR 5 a lot of market so NNI was no issued to EES	TLR - 5a Initial
8/30/10	1932	Reissued TLR 5A PC 106% no NNL for EES all market relief	TLR - 5a Reissue
8/30/10	2038	reissued TLR 5A PC 103% talked to jim (ssp eng) on market relief	TLR - 5a Reissue
8/30/10	2155	ended TLR 5 issued TLR 4 pc 96% updated ref286176	TLR - 4 Initial
8/30/10	2235	ended TLR 4 issued TLR 0, contacted johnny ict tariff to restore afc'S, updated oasis ref 286176, contacted EES PC 47%	TLR - 0