

**ICTE TLR 5 Investigation Report**  
**Flowgate 1324**  
**(Whitebluff - Sheridan 500 kV for the loss of Mabelvale - Sheridan 500 kV)**  
**TLR Level 5: May 19, 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 1324 on May 19, 2010. Flowgate 1324 is an Entergy flowgate. The TLR 5 was in effect from 11:35 PM on May 19, 2010 until 5:29 AM on May 20, 2010. Projected post-contingent flows on the Whitebluff - Sheridan 500 kV line for the loss of the Mabelvale - Sheridan 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 1151 MVA. Flow on the Contingent Element was 947 MVA. The LODF was approximately 80%. Post-contingent flow on the Limiting Element was approximately 1909 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 were no unplanned outages. Nelson 6 was 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 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 Perryville 1, Sabine, White Bluff and Independence.

Event History								
Issuing RC:		ICTE						
Flowgate:		1324 - WhiteBluff-Sheridan for loss of Mabelvale-Sheridan						
Event Begin:		2010-05-19 22:00						
Event End:		2010-05-20 06:30						
Event Duration:		8 Hours						
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
<a href="#">TLR Level 3A</a>	05/19/2010 22:00	05/19/2010 21:35	05/19/2010 21:34:11	591.0	394.4	196.6	21	979
<a href="#">TLR Level 5A</a>	05/19/2010 23:00	05/19/2010 22:35	05/19/2010 22:31:42	316.0	0.0	320.9	52	652
<a href="#">TLR Level 5A</a>	05/20/2010 00:00	05/19/2010 23:39	05/19/2010 23:36:47	285.0	0.0	309.1	53	604
<a href="#">TLR Level 5A</a>	05/20/2010 01:00	05/20/2010 00:28	05/20/2010 00:27:04	325.0	0.0	357.1	53	634
<a href="#">TLR Level 5A</a>	05/20/2010 02:00	05/20/2010 01:38	05/20/2010 01:38:14	373.0	0.0	429.2	57	730
<a href="#">TLR Level 5A</a>	05/20/2010 03:00	05/20/2010 02:30	05/20/2010 02:27:30	327.0	0.0	425.1	60	740
<a href="#">TLR Level 5A</a>	05/20/2010 04:00	05/20/2010 03:29	05/20/2010 03:25:56	331.0	0.0	430.7	62	919
<a href="#">TLR Level 5A</a>	05/20/2010 05:00	05/20/2010 04:29	05/20/2010 04:26:57	270.0	0.0	368.5	63	624
<a href="#">TLR Level 3A</a>	05/20/2010 06:00	05/20/2010 05:28	05/20/2010 05:26:10	289.3	106.3	183.0	8	382
<a href="#">TLR Level 0</a>	05/20/2010 06:30	05/20/2010 06:16	05/20/2010 06:16:14	0.0	0.0	0.0	0	0

## Event Summary

FILE SAVED AS: ICTE\_1324\_20100519\_2200.htm

Incident: ICTE_1324_20100519_2200	Date: 05/19/2010 (CDT)	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1324 - WhiteBluff-Sheridan for loss o...	Rating: 1732	LODF: 79.87%
TLR Direction: Normal		
Effective StartTime: 05/19/2010 23:00 (CDT)	Effective EndTime: 05/20/2010 07:30 (CDT)	TLR Duration: 8 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		RC Cut Acknowledge		Hold		CA	IDC MV	RC Ackn MV	Type	Mkt	IDC MV	RC Ackn MV	Current	Post Cont.	Cont. Flow		
					MW	Relief	MW	Relief	MW	Relief												
May 19 22:35 (CDT)	TLR 3A	NEXT	2-NH 6-NN Total	4 / 0 7 / 0 11 / 0	244 330 574	23.8 26.6 50.4	244 330 574	23.8 26.6 50.4	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 53.0 58.0	0.0 53.0 58.0	1155	1789	807	N/A			
May 19 23:35 (CDT)	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 1 2 / 0 43 / 1 48 / 2	55 151 118 324	6.7 8.1 28.7 43.6	55 151 118 324	6.7 8.1 28.7 43.6	72 0 18 90	3.7 0.0 1.2 4.9	EES SMEE TVA Total	17.0 1.0 2.0 20.0	17.0 1.0 2.0 20.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 179.0 3.1 182.1	0.0 179.0 3.1 182.1	1151	1907	947	N/A	
May 20 00:35 (CDT)	TLR 5A	NEXT	2-NH 6-NN 7-F Total	4 / 0 4 / 0 45 / 1 53 / 1	138 400 88 604	28.0 62.3 13.7 104.5	138 400 88 604	28.0 62.3 13.7 104.5	0 0 125 125	0.0 0.0 17.2 17.2	EES SMEE TVA Total	25.0 1.0 2.0 28.0	25.0 1.0 2.0 28.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 175.0 1.7 176.7	0.0 175.0 1.7 176.7	950	1727	974	N/A	
May 20 01:28 (CDT)	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 4 / 0 46 / 0 53 / 0	134 400 100 634	28.0 62.1 21.5 111.5	134 400 100 634	28.0 62.1 21.5 111.5	0 0 0 0	0.0 0.0 0.0 0.0	EES SMEE TVA Total	47.0 2.0 4.0 53.0	47.0 2.0 4.0 53.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 187.0 5.8 192.8	0.0 187.0 5.8 192.8	950	1765	1009	N/A	
May 20 02:35 (CDT)	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 4 / 0 50 / 0 57 / 0	139 400 191 730	28.9 62.1 42.2 133.2	139 400 191 730	28.9 62.1 42.2 133.2	0 0 0 0	0.0 0.0 0.0 0.0	AECI EES SMEE TVA Total	1.0 88.0 4.0 3.0 94.0	1.0 88.0 4.0 3.0 94.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 187.0 15.5 202.5	0.0 187.0 15.5 202.5	862	1655	1006	N/A	
May 20 03:30 (CDT)	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 4 / 0 53 / 0 60 / 0	139 400 201 740	28.9 62.5 44.8 135.9	139 400 201 740	28.9 62.5 44.8 135.9	0 0 0 0	0.0 0.0 0.0 0.0	AECI EES SMEE TVA Total	1.0 88.0 4.0 3.0 94.0	1.0 88.0 4.0 3.0 94.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 193.0 2.3 195.3	0.0 193.0 2.3 195.3	861	1664	1006	N/A	
May 20 04:29 (CDT)	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 5 / 0 54 / 0 62 / 0	117 800 202 919	23.0 73.5 45.0 141.5	117 800 202 919	23.0 73.5 45.0 141.5	0 0 0 0	0.0 0.0 0.0 0.0	AECI EES SMEE TVA Total	1.0 88.0 4.0 3.0 93.0	1.0 88.0 4.0 3.0 93.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 179.0 17.1 196.1	0.0 179.0 17.1 196.1	838	1623	983	N/A	
May 20 05:29 (CDT)	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 5 / 0 54 / 0 62 / 0	118 251 155 524	23.2 29.8 33.2 86.1	118 251 155 524	23.2 29.8 33.2 86.1	0 0 0 0	0.0 0.0 0.0 0.0	AECI EES SMEE TVA Total	1.0 74.0 3.0 3.0 81.0	1.0 74.0 3.0 3.0 81.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 171.4 0.0 171.4	0.0 171.4 0.0 171.4	841	1608	958	N/A	
May 20 06:28 (CDT)	TLR 3A	NEXT	0-NH 2-NH 6-NN 7-F Total	0 / 1 3 / 0 5 / 0 8 / 1	0 131 251 382	0.0 25.2 29.7 55.0	0 131 251 382	0.0 25.2 29.7 55.0	93 0 0 93	7.2 0.0 0.0 7.2	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 128.0 2.0 128.0	0.0 128.0 2.0 128.0	752	1370	775	N/A			
May 20 07:18 (CDT)	TLR 0	CURRENT				NONE					NONE			NONE				808	1426	774	N/A	

### TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MV	RC Cut Acknowledge MV	Hold MV
0	0	0	0	93
1	0	0	0	0
2	29	1213	1213	72
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	40	3183	3183	0
7	345	1035	1035	143
<b>Total</b>	<b>414</b>	<b>5431</b>	<b>5431</b>	<b>308</b>

### TLR NNL Totals

	NNL Relief	
	IDC MV	RC Ackn MV
AECI	4.0	4.0
EES	420.0	420.0
SMEE	19.0	19.0
TVA	20.0	20.0
<b>Total</b>	<b>463.0</b>	<b>463.0</b>

TLR Market Flow Totals

Market	Type	Market Relief	
		IOC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	1450.4	1450.4
	FIRM-7	52.5	52.5
Total for SWPP		1502.8	1502.9
Total		1502.8	1502.9

Date	Time	Category	Operator Name	Issue
05/19/10	2213	ICP/LAP Assessment	Monte/Scott	Assessed FG 1324 as ICP PC 99%,notified EES
05/19/10	2235	TLR - 3a	Monte/Scott	Issued TLR 3a PC 104% EES notified REF# 258984
05/19/10	2335	TLR - 5a	Monte/Scott	Issued TLR 5a PC 110% EES notified EES NNL:17.2, SMEE NNL: 0.6, SPA NNL: 0.0, AECI NNL: 0.1, TVA NNL: 1.6
05/20/10	0016	TLR - 5a	Monte/Scott	Called EES SOC Supervisor to request the transmission operator to indentify any known redispatch option that are available to the transmission customer that will mitigate the loading on the Constrained Facilities which are FG 1324 WhiteBluff-Sheridan 500kv ftlo Mabelvale-Sheridan 500kv
05/20/10	0039	TLR - 5a	Monte/Scott	Re-issued TLR 5a PC 100% EES notified. EES NNL:24.5, SMEE NNL:0.9, SPA NNL:0.0, AECI NNL: 0.2, TVA NNL: 2.2
05/20/10	0128	TLR - 5a	Monte/Scott	Re-issued TLR 5a PC 102% EES notified. EES NNL: 46.5, SMEE NNL: 1.8, SPA NNL: 0.0, AECI NNL: 0.3, TVA NNL: 4.0
05/20/10	0238	TLR - 5a	Monte/Scott	Re-issued TLR 5a PC 96% EES notified. EES NNL:85.5, SMEE NNL:4.0, SPA NNL:0.0, AECI NNL: 0.7, TVA NNL: 3.3
05/20/10	0240	TLR - 5a	Monte/Scott	Called Walter EES SOC supervisor to inform that there is no new internal non-firm schedules.
05/20/10	0251	TLR - 5a	Monte/Scott	EES (Walter) informed ICT that Sabine units have been increased by 160 MW's to satisfy NNL on FG 1324

05/20/10	0330	TLR - 5a	Monte/Scott	Reissued TLR on FG 1324 PC 96%, notified EES. EES NNL 85.9, SMEE NNL:4.0, SPA NNL: 0.0, AECI NNL:0.7, TVA NNL:3.3
05/20/10	0429	TLR - 5a	Monte/Scott	Reissued TLR on FG PC 94%,notified EES. EES NNL:85.3.SMEE NNL:3.8, SPA NNL:0.0, AECI NNL 0.9, TVA NNL:3.2
05/20/10	0450	TLR - 5a	Monte/Scott	Informed Walter EES SOC supervisor that there are no new internal non-firm schedules.
05/20/10	0529	TLR - 5a	Monte/Scott	Re-issued TLR 5a PC 93% EES notified EES NNL: 74.3, SMEE NNL: 3.2, SPA NNL: 0.0, AECI NNL: 0.8, TVA NNL: 2.9
05/20/10	0630	TLR - 3a	Dewayne/Keith	Issued TLR 3a, PC 79%
05/20/10	0715	TLR - 0	Dewayne/Keith	Issued TLR 0, PC 82%