

ICTE TLR 5 Investigation Report
Flowgate 1938
(Sheridan - El Dorado 500 kV for the loss of Etta - McNeil 500 kV)
TLR Level 5: May 2, 2009
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 1938 on May 2, 2009. Flowgate 1938 is an Entergy flowgate. The TLR 5 was in effect from 2:50 PM until 9:25 PM on May 2, 2009. Projected post-contingent flows on the Sheridan - El Dorado 500 kV line for the loss of the Etta - McNeil 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 1357 MVA. Flow on the Contingent Element was 828 MVA. The LODF was approximately 71%. Post-contingent flow on the Limiting Element was approximately 1944 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.

The loss of Michoud 3 affected this flowgate, along with load and system flows.

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 White Bluff 2, Little Gypsy and Sabine.

Event History								
Issuing RC:		ICTE						
Flowgate:		1938 - Sheridan-El Dorado 500 kV for the loss of Etta-McNeil 500 kV						
Event Begin:		2009-05-02 11:00						
Event End:		2009-05-02 22:30						
Event Duration:		11 Hours						
TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 3A	05/02/2009 11:00	05/02/2009 10:39	05/02/2009 10:36:08	180.0	4.9	175.1	23	1617
TLR Level 3A	05/02/2009 12:00	05/02/2009 11:28	05/02/2009 11:27:59	179.0	41.9	137.1	18	832
TLR Level 4	05/02/2009 12:45	05/02/2009 12:31	05/02/2009 12:31:18	0.0	0.0	0.0	0	0
TLR Level 5A	05/02/2009 14:05	05/02/2009 13:50	05/02/2009 13:48:56	264.0	0.0	268.6	68	842
TLR Level 5A	05/02/2009 15:00	05/02/2009 14:40	05/02/2009 14:40:14	194.0	0.0	279.6	69	759
TLR Level 5A	05/02/2009 16:00	05/02/2009 15:33	05/02/2009 15:31:17	150.0	0.0	261.5	64	654
TLR Level 5A	05/02/2009 17:00	05/02/2009 16:38	05/02/2009 16:36:05	164.0	0.0	270.8	68	653
TLR Level 5A	05/02/2009 18:00	05/02/2009 17:38	05/02/2009 17:37:52	214.0	0.0	318.2	69	870
TLR Level 5A	05/02/2009 19:00	05/02/2009 18:30	05/02/2009 18:30:16	186.0	0.0	293.8	65	772
TLR Level 5A	05/02/2009 20:00	05/02/2009 19:28	05/02/2009 19:27:51	218.0	0.0	319.0	65	964
TLR Level 5A	05/02/2009 21:00	05/02/2009 20:26	05/02/2009 20:25:36	214.0	0.0	294.2	61	729
TLR Level 4	05/02/2009 21:45	05/02/2009 21:29	05/02/2009 21:29:35	0.0	0.0	0.0	0	0
TLR Level 0	05/02/2009 22:30	05/02/2009 22:15	05/02/2009 22:14:10	0.0	0.0	0.0	0	0

06/12/2009 07:57:13 (CST)
 OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813
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Event Summary

FILE SAVED AS: ICTE_1938_20090502_1100.htm

Incident: ICTE_1938_20090502_1100	Date: 05/02/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1938 - Sheridan-El Dorado 500 kV for ...	Rating: 1732	LODF: 70.72%
TLR Direction: Normal		
Effective StartTime: 05/02/2009 11:00	Effective EndTime: 05/02/2009 22:30	TLR Duration: 11 Hours and 30 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								NLL Relief			Market Relief				Flow			TLR Action Comments
				Total Tags Cut / Hold	IDC Cut		RC Cut Acknowledge		Hold		CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow		
					MW	Relief	MW	Relief	MW	Relief												
May 02 10:39	TLR 3A	NEXT	2-NH 6-NN 7-F Total	11 / 0 7 / 2 0 / 1 18 / 3	1234 283 0 1497	108.9 28.1 0 135.0	1234 283 0 1497	108.9 28.1 0 135.0	0 250 55 305	0.0 18.8 4.5 21.1	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP 19.0 19.0 0.0 19.0	0.0 0.0 0.0 0.0	1340	1915	814	N/A				
May 02 11:28	TLR 3A	NEXT	2-NH 6-NN Total	6 / 0 9 / 0 15 / 0	430 712 712	58.8 95.8 95.8	430 712 712	58.8 95.8 95.8	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP 33.0 33.0 0.0 33.0	0.0 0.0 0.0 0.0	1270	1821	780	N/A				
May 02 12:31	TLR 4	CURRENT	NONE								NONE			ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP 4.0 4.0 0.0 4.0	0.0 0.0 0.0 0.0	1357	1939	824	N/A		
		NEXT	2-NH 6-NN Total	6 / 0 9 / 0 15 / 0	374 657 657	49.7 87.0 87.0	374 657 657	49.7 87.0 87.0	0 0 0	0.0 0.0 0.0	NONE		NONE									
May 02 13:50	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 5 / 0 44 / 0 63 / 0	283 232 207 702	32.3 25.4 38.4 96.1	283 232 207 702	32.3 25.4 38.4 96.1	0 0 0 0	0.0 0.0 0.0 0.0	EES SPA Total	81.0 1.0 81.0	81.0 1.0 81.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 43.0 21.1 0.0 64.1	0.0 43.0 21.1 0.0 64.1	1357	1942	828	N/A		
May 02 14:40	TLR 5A	NEXT	2-NH 6-NN 7-F Total	4 / 0 6 / 0 55 / 0 65 / 0	174 233 287 674	14.2 25.6 49.6 89.4	174 233 287 674	14.2 25.6 49.6 89.4	0 0 0 0	0.0 0.0 0.0 0.0	EES SPA Total	107.0 1.0 108.0	108.0 1.0 109.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 31.0 28.8 0.0 59.8	0.0 31.0 28.8 0.0 59.8	1371	1938	799	N/A		
May 02 16:53	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 5 / 0 52 / 0 60 / 0	122 206 251 579	10.6 23.0 46.3 79.9	122 206 251 579	10.6 23.0 46.3 79.9	0 0 0 0	0.0 0.0 0.0 0.0	EES SPA Total	102.0 1.0 103.0	102.0 1.0 103.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 32.0 27.5 0.0 59.5	0.0 32.0 27.5 0.0 59.5	1233	1774	766	N/A		
May 02 16:38	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 5 / 0 56 / 0 64 / 0	124 208 253 583	10.8 23.0 47.3 81.1	124 208 253 583	10.8 23.0 47.3 81.1	0 0 0 0	0.0 0.0 0.0 0.0	EES SPA Total	100.0 1.0 101.0	100.0 1.0 101.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 45.0 26.6 0.0 64.0	0.0 45.0 26.6 0.0 64.0	1222	1763	762	N/A		
May 02 17:38	TLR 5A	NEXT	2-NH 6-NN 7-F Total	4 / 0 5 / 0 55 / 0 65 / 0	331 207 257 805	37.0 23.2 49.8 110.0	331 207 257 805	37.0 23.2 49.8 110.0	0 0 0 0	0.0 0.0 0.0 0.0	EES SPA Total	104.0 1.0 105.0	104.0 1.0 105.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 61.0 25.8 0.0 87.8	0.0 61.0 25.8 0.0 87.8	1208	1753	774	N/A		
May 02 18:30	TLR 5A	NEXT	2-NH 6-NN 7-F Total	2 / 0 5 / 0 84 / 0 91 / 0	258 206 245 707	29.3 23.0 45.3 97.7	258 206 245 707	29.3 23.0 45.3 97.7	0 0 0 0	0.0 0.0 0.0 0.0	EES SPA Total	96.0 1.0 97.0	96.0 1.0 97.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 59.0 24.7 0.0 83.7	0.0 59.0 24.7 0.0 83.7	1171	1696	743	N/A		
May 02 19:23	TLR 5A	NEXT	2-NH 6-NN 7-F Total	4 / 0 5 / 0 83 / 1 94 / 1	505 257 202 964	76.8 34.9 36.4 148.1	505 257 202 964	76.8 34.9 36.4 148.1	0 0 46 45	0.0 0.0 3.7 3.7	EES Total	75.0 75.0	75.0 75.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 76.0 19.3 0.0 95.3	0.0 76.0 19.3 0.0 95.3	1141	1662	738	N/A		
May 02 20:26	TLR 5A	NEXT	2-NH 6-NN 7-F Total	3 / 0 4 / 0 54 / 0 61 / 0	378 153 198 729	68.6 31.8 35.4 135.7	378 153 198 729	68.6 31.8 35.4 135.7	0 0 0 0	0.0 0.0 0.0 0.0	EES Total	77.0 77.0	77.0 77.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP 0.0 59.0 22.0 0.0 81.0	0.0 59.0 22.0 0.0 81.0	1177	1698	738	N/A		
May 02 21:29	TLR 4	CURRENT	NONE								NONE			ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP 21.0 21.0 0.0 21.0	0.0 0.0 0.0 0.0	850	1232	541	N/A		
		NEXT	2-NH 6-NN Total	3 / 0 1 / 0 4 / 0	382 103 485	89.4 20.2 89.6	382 103 485	89.4 20.2 89.6	0 0 0	0.0 0.0 0.0	NONE		NONE									
May 02 22:15	TLR 0	CURRENT	NONE								NONE			NONE				821	1324	570	N/A	

TLR Schedule Totals

Priority	Total Tags Cut / Hold	Schedule			
		IDC Cut MW	RC Cut Acknowledge MW	Hold MW	Hold MW
0	0	0	0	0	0
1	0	0	0	0	0
2	62	4573	4573	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	70	2831	2831	260	0
7	434	1890	1890	100	0
Total	556	9094	9094	360	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	742.0	743.0
SPA	4.0	5.0
Total	746.0	748.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	483.0	483.0
	FIRM-7	190.9	190.8
Total for SWPP		679.9	679.8
Total		679.9	679.8