

ICTE TLR 5 Investigation Report
Flowgate 1938
(Sheridan - El Dorado 500 kV for the loss of Etta-McNeil 500 kV)
TLR Level 5: October 4, 2008
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 October 4, 2008. Flowgate 1938 is an Entergy flowgate. The TLR 5 was in effect from 8:12 AM until 3:35 PM CST on October 4, 2008. 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 5B was issued, the Limiting Element was rated at 1905 MVA. Flow on the Limiting Element was 1441 MVA. Flow on the Contingent Element was 980 MVA. The LODF was approximately 57%. Post-contingent flow on the Limiting Element was approximately 2120 MVA.

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

TLRs levels, timing and relief requested amounts are shown on pages 3, 4, and 5.

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 the NNL requirements by moving generation on Nelson 3 and 4 and Lewis Creek.

Event History

Issuing RC: ICTE
Flowgate: 1938 - Sheridan-El Dorado 500 kV for the loss of Etta-McNeil 500 kV
Event Begin: 2008-10-04 08:20
Event End: 2008-10-05 00:00
Event Duration: 16 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 5B	10/04/2008 08:20	10/04/2008 08:12	10/04/2008 08:10:06	300.0	0.0	300.0	88	1047
TLR Level 5A	10/04/2008 10:00	10/04/2008 09:34	10/04/2008 09:33:29	246.0	0.0	376.1	103	1435
TLR Level 5A	10/04/2008 11:00	10/04/2008 10:31	10/04/2008 10:30:36	101.0	0.0	245.8	105	1252
TLR Level 5A	10/04/2008 12:00	10/04/2008 11:34	10/04/2008 11:33:41	91.0	0.0	161.1	78	1245
TLR Level 5A	10/04/2008 13:00	10/04/2008 12:29	10/04/2008 12:29:18	156.0	0.0	167.6	67	1230
TLR Level 5A	10/04/2008 14:00	10/04/2008 13:33	10/04/2008 13:32:34	20.0	0.0	153.9	19	1145
TLR Level 5A	10/04/2008 15:00	10/04/2008 14:34	10/04/2008 14:33:47	59.0	0.0	167.4	19	1144
TLR Level 5A	10/04/2008 16:00	10/04/2008 15:35	10/04/2008 15:34:39	0.0	0.0	161.4	18	1043
TLR Level 3A	10/04/2008 17:00	10/04/2008 16:40	10/04/2008 16:40:34	58.1	0.0	100.0	10	632
TLR Level 3A	10/04/2008 18:00	10/04/2008 17:34	10/04/2008 17:33:38	0.0	0.0	58.4	6	329
TLR Level 3A	10/04/2008 19:00	10/04/2008 18:38	10/04/2008 18:37:41	58.0	0.0	58.0	8	352
TLR Level 3A	10/04/2008 20:00	10/04/2008 19:36	10/04/2008 19:34:59	162.0	1.9	160.1	19	1042
TLR Level 3A	10/04/2008 21:00	10/04/2008 20:34	10/04/2008 20:33:45	0.0	0.0	23.9	3	311
TLR Level 3A	10/04/2008 22:00	10/04/2008 21:36	10/04/2008 21:36:10	92.0	0.0	92.0	6	648
TLR Level 3A	10/04/2008 23:00	10/04/2008 22:35	10/04/2008 22:35:36	148.0	0.0	148.0	13	1122
TLR Level 0	10/05/2008 00:00	10/04/2008 23:27	10/04/2008 23:27:18	0.0	0.0	0.0	0	0

10/16/2008 13:07:50 (CST)

OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813

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Event Summary

FILE SAVED AS: ICTE_1938_20081004_0820.htm

Incident: ICTE_1938_20081004_0820	Date: 10/04/2008	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1938 - Sheridan-El Dorado 500 kV for ...	Rating: 1737	LODF: 69.38%
TLR Direction: Normal		
Effective StartTime: 10/04/2008 08:20	Effective EndTime: 10/05/2008 00:00	TLR Duration: 15 Hours and 40 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 Acknowledged		Hold		CA	IDC MW	RC Adjn MW	Type	Mkt	IDC MW	RC Adjn MW	Current	Post Cont.		Cont. Flow
					MW	Relief	MW	Relief	MW	Relief											
Oct 04 08:12	TLR 5B	CURRENT	2-NH	5 / 0	427	32.7	427	32.7	0	0.0	EES	117.0	117.0	ED-2	SWPP	0.0	0.0	1441	2120	980	N/A
			3-ND	2 / 0	65	4.6	65	4.6	0	0.0	SMEE	5.0	5.0	ED-6	SWPP	17.0	17.0				
			6-NN	5 / 0	194	13.2	194	13.2	0	0.0	TVA	8.0	8.0	FIRM7	SWPP	37.8	37.8				
			7-F	76 / 0	258	48.2	258	48.2	0	0.0	Total	130.0	130.0	Total		54.8	54.8				
			Total	88 / 0	944	138.7	944	98.7	0	0.0											
		NEXT	2-NH	6 / 1	607	47.5	607	47.5	26	1.4	NONE			NONE							
			3-ND	2 / 0	65	4.6	65	4.6	0	0.0											
			6-NN	13 / 0	828	113.1	828	113.1	0	0.0											
			7-F	72 / 3	258	46.8	258	46.8	160	45.6											
			Total	93 / 4	944	211.9	1758	211.9	186	47.1											
Oct 04 09:34	TLR 5A	NEXT	2-NH	6 / 0	307	25.1	307	25.1	0	0.0	EES	131.0	132.0	ED-2	SWPP	0.0	0.0	1379	2038	950	N/A
			3-ND	2 / 0	65	4.7	65	4.7	0	0.0	SMEE	5.0	5.0	ED-6	SWPP	0.0	0.0				
			6-NN	8 / 0	342	30.6	342	30.6	0	0.0	TVA	8.0	8.0	FIRM7	SWPP	39.3	39.3				
			7-F	93 / 1	308	64.2	308	64.2	150	11.2	Total	144.0	145.0	Total		39.3	39.3				
			Total	99 / 1	1022	124.6	1022	124.6	150	11.2											
Oct 04 10:31	TLR 5A	NEXT	2-NH	6 / 0	307	24.9	307	24.9	0	0.0	EES	64.0	64.0	ED-2	SWPP	0.0	0.0	1286	1891	873	N/A
			3-ND	2 / 0	65	4.6	65	4.6	0	0.0	SMEE	2.0	2.0	ED-6	SWPP	0.0	0.0				
			6-NN	7 / 0	299	28.1	299	28.1	0	0.0	TVA	4.0	4.0	FIRM7	SWPP	17.6	17.6				
			7-F	86 / 0	188	35.0	188	35.0	0	0.0	Total	70.0	70.0	Total		17.6	17.6				
			Total	101 / 0	839	92.7	839	92.7	0	0.0											
Oct 04 11:34	TLR 5A	NEXT	2-NH	6 / 0	257	21.6	257	21.6	0	0.0	EES	10.0	11.0	ED-2	SWPP	0.0	0.0	1353	1992	908	N/A
			3-ND	2 / 0	65	4.8	65	4.8	0	0.0	TVA	1.0	1.0	ED-6	SWPP	0.0	0.0				
			6-NN	12 / 0	787	105.5	787	105.5	0	0.0	Total	11.0	12.0	Total		2.7	2.7				
			7-F	56 / 1	56	10.0	56	10.0	100	8.0											
			Total	76 / 1	1145	141.8	1145	141.8	100	8.0											
Oct 04 12:29	TLR 5A	NEXT	2-NH	5 / 0	157	13.9	157	13.9	0	0.0	EES	7.0	7.0	ED-2	SWPP	0.0	0.0	1255	1850	858	N/A
			3-ND	2 / 0	65	4.7	65	4.7	0	0.0	SMEE	2.0	2.0	ED-6	SWPP	0.0	0.0				
			6-NN	5 / 0	447	58.5	447	58.5	0	0.0	TVA	4.0	4.0	FIRM7	SWPP	1.8	1.8				
			7-F	48 / 0	48	9.1	48	9.1	0	0.0	Total	7.0	7.0	Total		1.8	1.8				
			Total	60 / 0	717	86.1	717	86.1	0	0.0											
Oct 04 13:33	TLR 5A	NEXT	2-NH	4 / 0	109	8.1	109	8.1	0	0.0	NONE			ED-2	SWPP	0.0	0.0	1153	1717	913	N/A
			3-ND	2 / 0	65	4.7	65	4.7	0	0.0	ED-6	SWPP	0.0	0.0							
			6-NN	6 / 0	458	61.3	458	61.3	0	0.0	FIRM7	SWPP	0.0	0.0							
			Total	12 / 0	632	74.1	632	74.1	0	0.0											
Oct 04 14:34	TLR 5A	NEXT	2-NH	4 / 0	109	6.1	109	6.1	0	0.0	NONE			ED-2	SWPP	0.0	0.0	1226	1839	884	N/A
			3-ND	2 / 0	65	4.7	65	4.7	0	0.0	ED-6	SWPP	0.0	0.0							
			6-NN	6 / 0	457	88.3	457	88.3	0	0.0	FIRM7	SWPP	0.0	0.0							
			Total	12 / 0	631	79.2	631	79.2	0	0.0											
Oct 04 15:35	TLR 5A	NEXT	2-NH	5 / 0	106	10.6	106	10.6	0	0.0	NONE			ED-2	SWPP	0.0	0.0	1142	1702	808	N/A
			3-ND	2 / 0	65	4.8	65	4.8	0	0.0	ED-6	SWPP	0.0	0.0							
			6-NN	9 / 0	672	101.8	672	101.8	0	0.0	FIRM7	SWPP	0.0	0.0							
			7-F	0 / 1	0	0.0	0	0.0	4	0.5	Total	0.0	0.0	Total		0.0	0.0				
			Total	16 / 1	843	117.0	843	117.0	4	0.5											
Oct 04 16:40	TLR 3A	NEXT	7-F	0 / 1	0	0.0	0	0.0	1	0.1	NONE			ED-2	SWPP	0.0	0.0	1062	1591	763	N/A
			Total	0 / 1	0	0.0	0	0.0	1	0.1											
Oct 04 17:34	TLR 3A	NEXT	NONE						NONE			ED-2	SWPP	0.0	0.0	1090	1627	774	N/A		
			ED-6	SWPP	0.0	0.0															
			Total																		
Oct 04 18:38	TLR 3A	NEXT	2-NH	2 / 0	4	0.3	4	0.3	0	0.0	NONE			ED-2	SWPP	0.0	0.0	1195	1766	824	N/A
			3-ND	2 / 0	48	3.4	48	3.4	0	0.0	ED-6	SWPP	0.0	0.0							
			Total	4 / 0	52	3.7	52	3.7	0	0.0											
Oct 04 18:38	TLR 3A	NEXT	2-NH	4 / 0	104	6.1	104	6.1	0	0.0	NONE			ED-2	SWPP	0.0	0.0	1314	1930	889	N/A
			3-ND	2 / 0	65	4.6	65	4.6	0	0.0	ED-6	SWPP	0.0	0.0							
			6-NN	6 / 0	360	61.5	360	61.5	0	0.0	FIRM7	SWPP	0.0	0.0							
			Total	12 / 0	529	72.2	529	72.2	0	0.0											
Oct 04 20:34	TLR 3A	NEXT	NONE						NONE			ED-2	SWPP	0.0	0.0	1202	1727	757	N/A		
			ED-6	SWPP	0.0	0.0															
			Total																		
Oct 04 21:30	TLR 3A	NEXT	2-NH	1 / 1	21	1.1	21	1.1	103	7.8	NONE			ED-2	SWPP	0.0	0.0	1241	1770	763	N/A
			3-ND	1 / 0	14	1.1	14	1.1	0	0.0	ED-6	SWPP	11.5	11.5							
			Total	2 / 1	35	2.2	35	2.2	103	7.8											
Oct 04 22:35	TLR 3A	NEXT	2-NH	4 / 0	342	29.7	342	29.7	0	0.0	NONE			ED-2	SWPP	0.0	0.0	1335	1895	808	N/A
			3-ND	1 / 0	14	1.0	14	1.0	0	0.0	ED-6	SWPP	14.3	14.3							
			6-NN	4 / 0	204	25.9	204	25.9	0	0.0	FIRM7	SWPP	0.0	0.0							
			Total	9 / 0	560	56.5	560	56.5	0	0.0											
Oct 04 23:27	TLR 0	CURRENT	NONE						NONE			NONE				1187	1599	594	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	58	2857	2857	129
3	24	728	728	0
4	0	0	0	0
5	0	0	0	0
6	81	5028	5028	0
7	421	1096	1096	415
Total	584	9707	9707	544

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	329.0	331.0
SMEE	12.0	12.0
TVA	21.0	21.0
Total	362.0	364.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	42.8	42.8
	FIRM-7	99.2	99.2
Total for SWPP		142.0	142.0
Total		142.0	142.0