

ICTE TLR 5 Investigation Report
Flowgate 16272
(Nelson AT1 500/230 kV for the loss of Hartburg - Cypress 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 16272 on May 19, 2010. Flowgate 16272 is an Entergy flowgate. The TLR 5 was in effect from 11:18 AM until 11:30 PM on May 19, 2010. Projected post-contingent flows on the Nelson AT1 500/230 kV line for the loss of the Hartburg - Cypress 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 560 MVA. Flow on the Limiting Element was 461 MVA. Flow on the Contingent Element was 562 MVA. The LODF was approximately 28%. Post-contingent flow on the Limiting Element was approximately 618 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. 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 is included below.

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 Sabine and Lewis Creek.

Event History									
Issuing RC:		ICTE							
Flowgate:		16272 - Nelson AT1 500/230 (ftlo) Hartburg 500kv - Cypress							
Event Begin:		2010-05-19 09:25							
Event End:		2010-05-19 23:20							
Event Duration:		14 Hours							
TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts		
							Tags	MW	
TLR Level 1	05/19/2010 09:25	05/19/2010 09:16	05/19/2010 09:15:58	0.0	0.0	0.0	0	0	
TLR Level 5B	05/19/2010 10:30	05/19/2010 10:19	05/19/2010 10:18:37	60.0	0.0	61.1	29	439	
TLR Level 5A	05/19/2010 12:00	05/19/2010 11:29	05/19/2010 11:26:41	40.0	0.0	65.9	28	526	
TLR Level 5A	05/19/2010 13:00	05/19/2010 12:29	05/19/2010 12:27:29	32.0	0.0	58.0	26	507	
TLR Level 5A	05/19/2010 14:00	05/19/2010 13:28	05/19/2010 13:26:50	36.0	0.0	55.4	25	500	
TLR Level 5A	05/19/2010 15:00	05/19/2010 14:30	05/19/2010 14:28:17	39.0	0.0	55.7	25	500	
TLR Level 5A	05/19/2010 16:00	05/19/2010 15:28	05/19/2010 15:25:46	39.0	0.0	55.7	25	500	
TLR Level 5A	05/19/2010 17:00	05/19/2010 16:29	05/19/2010 16:26:33	112.0	0.0	128.4	33	647	
TLR Level 5A	05/19/2010 18:00	05/19/2010 17:31	05/19/2010 17:27:25	52.0	0.0	133.4	33	659	
TLR Level 5A	05/19/2010 19:00	05/19/2010 18:33	05/19/2010 18:31:39	44.0	0.0	125.2	31	643	
TLR Level 5A	05/19/2010 20:00	05/19/2010 19:28	05/19/2010 19:26:39	17.0	0.0	92.7	28	577	
TLR Level 5A	05/19/2010 21:00	05/19/2010 20:33	05/19/2010 20:32:07	3.0	0.0	51.4	29	389	
TLR Level 5A	05/19/2010 22:00	05/19/2010 21:30	05/19/2010 21:27:39	4.0	0.0	27.8	16	315	
TLR Level 1	05/19/2010 22:45	05/19/2010 22:25	05/19/2010 22:25:45	0.0	0.0	0.0	0	0	
TLR Level 0	05/19/2010 23:20	05/19/2010 23:07	05/19/2010 23:06:58	0.0	0.0	0.0	0	0	

Event Summary

FILE SAVED AS: ICTE_16272_20100519_0925.htm

Incident:	ICTE_16272_20100519_0925	Date:	05/19/2010 (CDT)	Reliability Coordinator:	ICTE
Initial Conditions:	N/A				
Flowgate:	16272 - Nelson AT1 500/230 (ftlo) Hart...	Rating:	560	LODF:	27.93%
TLR Direction:	Normal				
Effective StartTime:	05/19/2010 10:25 (CDT)	Effective EndTime:	05/20/2010 00:20 (CDT)	TLR Duration:	13 Hours and 55 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule							NNL Relief			Market Relief				Flow			TLR Action Comments
				Total Tags Cut / Hold	IDC Cut MW	Relief MW	RC Cut Acknowledge MW	Hold MW	Relief MW	CA	IDC MW	RC Askn MW	Type	Mkt	IDC MW	RC Askn MW	Current	Post Cont.	Cont. Flow		
May 19 10:16 (CDT)	TLR 1	CURRENT		NONE							NONE			NONE				418	560	509	N/A
May 19 11:19 (CDT)	TLR 5B	CURRENT	8-NN	3 / 0	363	30.0	363	30.0	0	0.0	EES	21.0	21.0	NONE		461	617	562	N/A		
			7-F	25 / 0	76	6.4	76	6.4	0	0.0	LAGN	3.0	3.0	NONE							
				Total	29 / 0	439	36.4	439	36.4	0	0.0	Total	24.0	24.0							
		NEXT	8-NN	3 / 2	776	67.4	776	67.4	75	5.1	NONE		NONE								
			7-F	28 / 0	77	6.5	77	6.5	0	0.0	NONE		NONE								
				Total	29 / 2	439	73.9	853	73.9	75	5.1										
May 19 12:29 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	35.2	450	35.2	0	0.0	EES	22.0	22.0	NONE		399	543	519	N/A		
			7-F	27 / 0	76	5.7	76	5.7	0	0.0	LAGN	3.0	3.0	NONE							
				Total	28 / 0	526	41.0	526	41.0	0	0.0	Total	25.0	25.0							
May 19 13:29 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	35.2	450	35.2	0	0.0	EES	18.0	18.0	NONE		354	498	510	N/A		
			7-F	25 / 0	57	4.3	57	4.3	0	0.0	LAGN	2.0	2.0	NONE							
				Total	26 / 0	507	39.5	507	39.5	0	0.0	Total	18.0	18.0							
May 19 14:25 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	35.9	450	35.9	0	0.0	EES	14.0	14.0	NONE		362	514	547	N/A		
			7-F	24 / 0	50	3.8	50	3.8	0	0.0	LAGN	2.0	2.0	NONE							
				Total	25 / 0	500	39.7	500	39.7	0	0.0	Total	16.0	16.0							
May 19 15:30 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	36.1	450	36.1	0	0.0	EES	14.0	14.0	NONE		382	542	573	N/A		
			7-F	24 / 0	50	3.8	50	3.8	0	0.0	LAGN	2.0	2.0	NONE							
				Total	25 / 0	500	39.9	500	39.9	0	0.0	Total	16.0	16.0							
May 19 16:28 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	36.3	450	36.3	0	0.0	EES	14.0	14.0	NONE		381	543	580	N/A		
			7-F	24 / 0	50	3.8	50	3.8	0	0.0	LAGN	2.0	2.0	NONE							
				Total	25 / 0	500	40.1	500	40.1	0	0.0	Total	16.0	16.0							
May 19 17:29 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	33.8	450	33.8	0	0.0	CLEC	1.0	1.0	NONE		456	648	681	N/A		
			7-F	32 / 0	209	18.6	209	18.6	0	0.0	EES	70.0	70.0	NONE							
				Total	33 / 0	647	48.2	647	48.2	0	0.0	Total	80.0	80.0							
May 19 18:31 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	36.7	450	36.7	0	0.0	CLEC	1.0	1.0	NONE		375	524	538	N/A		
			7-F	32 / 0	209	18.6	209	18.6	0	0.0	EES	70.0	70.0	NONE							
				Total	33 / 0	659	53.3	659	53.3	0	0.0	Total	81.0	81.0							
May 19 19:33 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	35.6	450	35.6	0	0.0	CLEC	0.0	1.0	NONE		328	468	511	N/A		
			7-F	30 / 0	193	14.9	193	14.9	0	0.0	EES	65.0	65.0	NONE							
				Total	31 / 0	643	50.5	643	50.5	0	0.0	Total	74.0	75.0							
May 19 20:25 (CDT)	TLR 5A	NEXT	8-NN	1 / 0	450	35.8	450	35.8	0	0.0	EES	41.0	41.0	NONE		308	452	516	N/A		
			7-F	27 / 0	127	9.8	127	9.8	0	0.0	LAGN	6.0	6.0	NONE							
				Total	28 / 0	577	45.3	577	45.3	0	0.0	Total	47.0	47.0							
May 19 21:33 (CDT)	TLR 5A	NEXT	2-NH	1 / 0	21	1.1	21	1.1	0	0.0	EES	20.0	20.0	NONE		324	472	531	N/A		
			7-F	25 / 0	68	5.2	68	5.2	0	0.0	LAGN	3.0	3.0	NONE							
				Total	26 / 0	89	6.3	89	6.3	0	0.0	Total	23.0	23.0							
May 19 22:30 (CDT)	TLR 5A	NEXT	7-F	13 / 0	15	1.0	15	1.0	0	0.0	EES	5.0	5.0	NONE		332	488	554	N/A		
											LAGN	1.0	1.0	NONE							
				Total	13 / 0	15	1.0	15	1.0	0	0.0	Total	6.0	6.0							
May 19 23:25 (CDT)	TLR 1	CURRENT		NONE							NONE			NONE				286	412	422	N/A
May 20 00:07 (CDT)	TLR 0	CURRENT		NONE							NONE			NONE				240	337	349	N/A

TLR Schedule Totals

Priority	Schedule				
	Total Tags Cut / Hold	IDC Cut MW	RC Cut Acknowledge MW	Hold MW	Relief MW
0	0	0	0	0	0
1	0	0	0	0	0
2	1	21	21	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	15	5189	5189	75	0
7	335	1245	1245	0	0
Total	351	6455	6455	75	0

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Askn MW
CLEC	2.0	3.0
EES	372.0	372.0
LAGN	52.0	52.0
Total	426.0	427.0

Date	Time	Category	Operator Name	Issue
05/19/10	1007	Flow Gate Assessment	Wayne/Chad	assessed as ICP PC 101%
05/19/10	1015	TLR - 1	Wayne/Chad	Issued TLR 1 PC 100% Ref 258737
05/19/10	1118	TLR - 5b	Wayne Johnson	Issued TLR 5B, PC 110%, Ref 258737, NNL: EES 21.4, CLEC .2, LAGN 3.2. Had CLEC just hold generation at present status. LAGN will be scheduling 12mws off of Carrol St. generator. As provided in the email to the Shift Supervisor, the ICT RC has issued a TLR Level 5B on Flowgate 16272 Nelson AT1 500/230 (ftlo) Hartburg 500kv - Cypress. At this time Entergy is instructed to curtail the non-firm portion of the following Schedules 0006223. These curtailments should remain in place until the TLR level is reduced below a TLR Level 3.
05/19/10	1226	TLR - 5a	Wayne Johnson	Reissued TLR 5A, PC 97%, NNL: EES 21.8, CLEC .2, LAGN 3. Instructed all entities to hold generation at current levels.
05/19/10	1327	TLR - 5a	Wayne Johnson	Reissued TLR 5A, PC 89%, NNL: EES 16.2, CLEC .1, LAGN 2.1. LAGN will adjust Carrol St. tag from 13 to 8 mws. As provided in the email to the Shift Supervisor, the ICT RC has issued a TLR Level 5A on Flowgate 16272 Nelson AT1 500/230 (ftlo) Hartburg 500kv - Cypress. At this time Entergy is instructed to curtail the non-firm portion of the following Schedules MAY1639 and 0045120. These curtailments should remain in place until the TLR level is reduced below a TLR Level 3.
05/19/10	1426	TLR - 5a	Wayne Johnson	Reissued TLR 5A, PC 92%, NNL: EES 13.8, CLEC .1, LAGN 1.8. All entities will hold current levels.
05/19/10	1528	TLR - 5a	Wayne Johnson	Reissued TLR 5A, PC 97%, NNL: EES 13.8, CLEC .1, LAGN 1.8. All entities will hold current levels
05/19/10	1625	TLR - 5a	Wayne Johnson	Reissued TLR 5A, PC 97%, NNL: EES 13.7, CLEC .1, LAGN 1.8. All entities will hold current levels
05/19/10	1726	TLR - 5a	Wayne Johnson	Reissued TLR 5A, PC 115%, NNL: EES 70.4, CLEC .5, LAGN 9.3. LAGN will adjust Carrol St. tag to 28mws and set Cottonwood to 375.
05/19/10	1831	TLR - 5a	Monte/Scott	Re-issued TLR 5a PC 94% EES notified EES NNL: 69.9, CLECO NNL: 0.5, LAGN NNL 9.7.
05/19/10	1840	TLR - 5a	Monte/Scott	Called EES SCO supervisor : As provided in the email to the Shift Supervisor, the ICT RC has issued a TLR Level 5A on Flowgate 16272 Nelson AT1 500/230 (ftlo) Hartburg 500kv - Cypress. At this time Entergy is instructed to curtail the non-firm portion of the following Schedules MAY1639 and 0045120. These curtailments should remain in place until the TLR level is reduced below a TLR Level 3. Hestated that he would curtail the 2 schedules MAY 1639 & 0045120.
05/19/10	1848	TLR - 5a	Monte/Scott	Walter EES SOC called to inform that internal non-firm tag MAY 1969 was ending at HE 19, so no reason to curtail the tag.
05/19/10	1931	TLR - 5a	Monte/Scott	Reissued TLR % 5A PC 84% EES notified. EES NNL: 65.2, CLEC NNL: 0.5, LAGN NNL:9.0,
05/19/10	2028	TLR - 5a	Monte/Scott	re-issued TLR 5a PC 81% EES notified EES NNL: 41.1, CLEC NNL: 0.3, LAGN NNL 5.9.

05/19/10	2105	TLR - 5a	Monte/Scott	Walter called to inform that the internal non-firm TAG 0045120 would be ending HE 22.
05/19/10	2133	TLR - 5a	Monte/Scott	Reissued TLR on FG 16272 PC 84%, notified EES. EES NNL:20.2, CLEC NNL:0.1, LAGN NNL:3.1
05/19/10	2230	TLR - 5a	Monte/Scott	re-issued TLR 5a PC 87% EES notified, EES NNL: 5.0, CLEC NNL:0.0, LAGN NNL: 0.9 Called EES SOC (Walter) to confirm no new internal non-firm schedules.
05/19/10	2250	TLR - 5a	Monte/Scott	LAGN (Tim) called to inform that Lagn was providing their NNL by increase Exxon unit output and taking Cottonwood units offline.
05/20/10	0006	TLR - 0	Monte/Scott	Issued TLR 0 to end TLR 1 ended REF# 258737