

**ICTE TLR 5 Investigation Report
Flowgate 1330
(McAdams 500/230 for the loss of McAdams-Lakeover)
TLR Level 5: October 8, 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 1330 on October 8, 2009. Flowgate 1330 is an Entergy flowgate. The TLR 5 was in effect from 11:27 AM on October 8, 2009 until 6:30 AM on October 9, 2009. Projected post-contingent flows on the McAdams 500/230 line for the loss of the McAdams-Lakeover 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 615 MVA. Flow on the Limiting Element was 357 MVA. Flow on the Contingent Element was 911 MVA. The LODF was approximately 43%. Post-contingent flow on the Limiting Element was approximately 749 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 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 Attala 1.

Event History

Issuing RC: ICTE
Flowgate: 1330 - McAdams500-230 for loss of McAdams-Lakeover
Event Begin: 2009-10-08 08:50
Event End: 2009-10-09 19:00
Event Duration: 35 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 1	10/08/2009 08:50	10/08/2009 08:41	10/08/2009 08:40:51	0.0	0.0	0.0	0	0
TLR Level 3A	10/08/2009 10:00	10/08/2009 09:37	10/08/2009 09:35:56	52.0	0.0	52.1	9	745
TLR Level 3A	10/08/2009 11:00	10/08/2009 10:27	10/08/2009 10:26:27	70.0	1.0	69.0	9	944
TLR Level 5A	10/08/2009 12:00	10/08/2009 11:31	10/08/2009 11:27:26	127.0	0.0	127.9	37	1118
TLR Level 5A	10/08/2009 13:00	10/08/2009 12:38	10/08/2009 12:35:08	85.0	0.0	129.3	37	1127
TLR Level 5A	10/08/2009 14:00	10/08/2009 13:34	10/08/2009 13:32:37	82.0	0.0	127.5	40	1125
TLR Level 5A	10/08/2009 15:00	10/08/2009 14:27	10/08/2009 14:26:38	95.0	0.0	138.9	42	1214
TLR Level 5A	10/08/2009 16:00	10/08/2009 15:32	10/08/2009 15:29:45	90.0	0.0	138.4	44	1220
TLR Level 5A	10/08/2009 17:00	10/08/2009 16:30	10/08/2009 16:27:41	82.0	0.0	129.1	39	1159
TLR Level 5A	10/08/2009 18:00	10/08/2009 17:32	10/08/2009 17:29:41	94.0	0.0	137.3	37	1169
TLR Level 5A	10/08/2009 19:00	10/08/2009 18:31	10/08/2009 18:29:41	66.0	0.0	115.7	34	835
TLR Level 5A	10/08/2009 20:00	10/08/2009 19:37	10/08/2009 19:35:07	71.0	0.0	121.7	36	905
TLR Level 5A	10/08/2009 21:00	10/08/2009 20:29	10/08/2009 20:26:38	70.0	0.0	121.9	34	912
TLR Level 4	10/08/2009 21:40	10/08/2009 21:30	10/08/2009 21:29:33	0.0	0.0	0.0	0	0
TLR Level 4	10/08/2009 22:40	10/08/2009 22:27	10/08/2009 22:27:11	0.0	0.0	0.0	0	0
TLR Level 5A	10/09/2009 00:00	10/08/2009 23:31	10/08/2009 23:30:53	82.0	0.0	83.2	32	669
TLR Level 5A	10/09/2009 01:00	10/09/2009 00:27	10/09/2009 00:26:07	50.0	0.0	82.3	31	668
TLR Level 5A	10/09/2009 02:00	10/09/2009 01:26	10/09/2009 01:26:01	49.0	0.0	80.6	30	662
TLR Level 5A	10/09/2009 03:00	10/09/2009 02:26	10/09/2009 02:25:38	47.0	0.0	77.6	31	651
TLR Level 5A	10/09/2009 04:00	10/09/2009 03:27	10/09/2009 03:26:18	46.0	0.0	74.6	28	634
TLR Level 5A	10/09/2009 05:00	10/09/2009 04:38	10/09/2009 04:31:22	21.0	0.0	47.8	28	414
TLR Level 5A	10/09/2009 06:00	10/09/2009 05:36	10/09/2009 05:33:41	28.0	0.0	43.5	24	535
TLR Level 3A	10/09/2009 07:00	10/09/2009 06:31	10/09/2009 06:30:07	84.5	7.4	77.1	5	850
TLR Level 3A	10/09/2009 08:00	10/09/2009 07:30	10/09/2009 07:27:48	37.0	0.0	37.2	5	507
TLR Level 3A	10/09/2009 09:00	10/09/2009 08:29	10/09/2009 08:26:37	33.0	0.0	33.1	5	445
TLR Level 3A	10/09/2009 10:00	10/09/2009 09:28	10/09/2009 09:26:50	23.0	0.0	23.1	5	303
TLR Level 3A	10/09/2009 11:00	10/09/2009 10:29	10/09/2009 10:27:44	20.0	0.0	20.1	5	281
TLR Level 3A	10/09/2009 12:00	10/09/2009 11:30	10/09/2009 11:29:21	52.0	7.3	44.7	7	564
TLR Level 3A	10/09/2009 13:00	10/09/2009 12:28	10/09/2009 12:26:52	44.0	1.7	42.3	5	550
TLR Level 3A	10/09/2009 14:00	10/09/2009 13:39	10/09/2009 13:38:01	58.0	15.6	42.4	5	550
TLR Level 3A	10/09/2009 15:00	10/09/2009 14:38	10/09/2009 14:33:12	0.0	0.0	3.8	1	50
TLR Level 1	10/09/2009 16:00	10/09/2009 15:32	10/09/2009 15:31:46	0.0	0.0	0.0	0	0
TLR Level 0	10/09/2009 19:00	10/09/2009 18:41	10/09/2009 18:41:12	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_1330_20091008_0850.htm

Incident: ICTE_1330_20091008_0850	Date: 10/08/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1330 - McAdams500-230 for loss of McA...	Rating: 615	LODF: 43.13%
TLR Direction: Normal		
Effective StartTime: 10/08/2009 08:50	Effective EndTime: 10/09/2009 19:00	TLR Duration: 34 Hours and 10 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 MW	RC Reln MW	Type	Mkt	IDC MW	RC Reln MW	Current	Post Cont.	Cont. Flow	
				MW	Relief	MW	Relief	MW	Relief	MW	Relief											
Oct 08 08:41	TLR 1	CURRENT		NONE								NONE			NONE				318	602	660	N/A
Oct 08 09:37	TLR 3A	NEXT	2-NH 6-NN Total	3 / 0 6 / 0 9 / 0	300 445 745	22.4 29.8 52.1	300 445 745	22.4 29.8 52.1	0 0 0	0.0 0.0 0.0	NONE			NONE				318	636	742	N/A	
Oct 08 10:27	TLR 3A	NEXT	2-NH 6-NN Total	2 / 0 7 / 0 9 / 0	250 694 944	18.8 50.4 69.0	250 694 944	18.8 50.4 69.0	0 0 0	0.0 0.0 0.0	NONE			NONE				313	637	753	N/A	
Oct 08 11:21	TLR 5A	NEXT	6-NN 7-F Total	7 / 0 27 / 0 34 / 0	694 174 868	50.4 15.6 66.0	694 174 868	50.4 15.6 66.0	0 0 0	0.0 0.0 0.0	EES TVA Total	32.0 12.0 44.0	32.0 12.0 44.0	NONE		NONE		357	749	911	N/A	
Oct 08 12:38	TLR 5A	NEXT	6-NN 7-F Total	7 / 0 28 / 1 35 / 1	694 183 877	49.9 16.4 66.4	694 183 877	49.9 16.4 66.4	0 35 35	0.0 2.6 2.6	EES TVA Total	34.0 11.0 45.0	34.0 11.0 45.0	NONE		NONE		327	633	710	N/A	
Oct 08 13:34	TLR 5A	NEXT	2-NH 6-NN 7-F Total	2 / 0 7 / 0 31 / 1 40 / 1	250 694 181 1125	18.8 49.9 16.1 84.6	250 694 181 1125	18.8 49.9 16.1 84.6	0 0 4 4	0.0 0.0 0.4 0.4	EES TVA Total	32.0 10.0 42.0	33.0 10.0 43.0	NONE		NONE		345	654	718	N/A	
Oct 08 14:27	TLR 5A	NEXT	2-NH 6-NN 7-F Total	2 / 0 7 / 0 33 / 0 42 / 0	250 766 198 1214	18.8 55.6 17.5 91.7	250 766 198 1214	18.8 55.6 17.5 91.7	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	35.0 12.0 47.0	36.0 12.0 48.0	NONE		NONE		353	667	728	N/A	
Oct 08 15:32	TLR 5A	NEXT	2-NH 6-NN 7-F Total	2 / 0 7 / 0 35 / 0 44 / 0	250 766 204 1220	18.5 55.8 18.1 92.3	250 766 204 1220	18.5 55.8 18.1 92.3	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	34.0 12.0 46.0	34.0 12.0 46.0	NONE		NONE		354	640	664	N/A	
Oct 08 16:30	TLR 5A	NEXT	2-NH 6-NN 7-F Total	2 / 0 7 / 0 30 / 0 39 / 0	250 766 143 1159	18.8 56.0 12.2 86.8	250 766 143 1159	18.8 56.0 12.2 86.8	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	32.0 11.0 43.0	32.0 11.0 43.0	NONE		NONE		354	635	653	N/A	
Oct 08 17:32	TLR 5A	NEXT	6-NN 7-F Total	7 / 0 29 / 0 36 / 0	766 203 969	55.9 18.3 74.2	766 203 969	55.9 18.3 74.2	0 0 0	0.0 0.0 0.0	EES TVA Total	36.0 12.0 48.0	36.0 12.0 48.0	NONE		NONE		343	593	581	N/A	
Oct 08 18:31	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 4 / 0 29 / 1 34 / 1	200 425 210 835	14.8 32.1 19.1 66.0	200 425 210 835	14.8 32.1 19.1 66.0	0 0 250 250	0.0 0.0 16.5 16.5	EES TVA Total	37.0 13.0 50.0	37.0 13.0 50.0	NONE		NONE		358	614	594	N/A	
Oct 08 19:37	TLR 5A	NEXT	6-NN 7-F Total	5 / 0 30 / 0 35 / 0	435 270 705	32.8 23.4 56.2	435 270 705	32.8 23.4 56.2	0 0 0	0.0 0.0 0.0	EES TVA Total	37.0 14.0 51.0	37.0 14.0 51.0	NONE		NONE		348	591	565	N/A	
Oct 08 20:29	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 3 / 0 31 / 0 35 / 0	155 455 302 912	11.5 32.1 26.0 69.6	155 455 302 912	11.5 32.1 26.0 69.6	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	38.0 14.0 52.0	38.0 14.0 52.0	NONE		NONE		330	587	596	N/A	
Oct 08 21:30	TLR 4	CURRENT		NONE								NONE			NONE				292	498	478	N/A
Oct 08 21:30	TLR 4	NEXT	2-NH 6-NN Total	1 / 0 2 / 0 3 / 0	155 205 360	11.5 14.4 25.9	155 205 360	11.5 14.4 25.9	0 0 0	0.0 0.0 0.0	NONE			NONE								
Oct 08 22:27	TLR 4	CURRENT		NONE								NONE			NONE				309	624	731	N/A
Oct 08 22:27	TLR 4	NEXT	1-NS 6-NN Total	1 / 0 3 / 1 4 / 1	200 320 520	14.8 22.8 37.7	200 320 520	14.8 22.8 37.7	0 50 50	0.0 4.8 4.8	NONE			NONE								
Oct 08 23:31	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 2 / 0 26 / 0 32 / 0	200 300 169 669	14.8 21.6 15.4 51.8	200 300 169 669	14.8 21.6 15.4 51.8	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	23.0 9.0 32.0	23.0 9.0 32.0	NONE		NONE		361	668	712	N/A	
Oct 09 00:27	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 2 / 0 26 / 0 31 / 0	200 300 168 668	14.8 21.5 15.4 51.6	200 300 168 668	14.8 21.5 15.4 51.6	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	22.0 9.0 30.0	22.0 9.0 30.0	NONE		NONE		344	605	606	N/A	
Oct 09 01:26	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 2 / 0 27 / 0 30 / 0	200 300 162 662	14.8 21.5 14.8 51.1	200 300 162 662	14.8 21.5 14.8 51.1	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	22.0 9.0 30.0	22.0 9.0 30.0	NONE		NONE		333	610	643	N/A	
Oct 09 02:26	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 2 / 0 28 / 0 31 / 0	200 300 151 651	14.8 21.4 13.8 50.0	200 300 151 651	14.8 21.4 13.8 50.0	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	20.0 7.0 27.0	20.0 7.0 27.0	NONE		NONE		328	608	651	N/A	
Oct 09 03:27	TLR 5A	NEXT	1-NS 6-NN 7-F Total	1 / 0 2 / 0 25 / 0 28 / 0	200 300 134 634	14.8 21.4 12.4 48.6	200 300 134 634	14.8 21.4 12.4 48.6	0 0 0 0	0.0 0.0 0.0 0.0	EES TVA Total	19.0 7.0 26.0	19.0 7.0 26.0	NONE		NONE		327	602	638	N/A	
Oct 09 04:38	TLR 5A	NEXT	6-NN 7-F Total	3 / 0 23 / 1 26 / 1	250 64 314	18.8 5.9 24.8	250 64 314	18.8 5.9 24.8	0 250 250	0.0 16.2 16.2	EES TVA Total	11.0 4.0 15.0	11.0 4.0 15.0	NONE		NONE		329	577	577	N/A	
Oct 09 05:36	TLR 5A	NEXT	6-NN 7-F Total	4 / 0 20 / 0 24 / 0	500 35 535	34.9 3.0 38.0	500 35 535	34.9 3.0 38.0	0 0 0	0.0 0.0 0.0	EES TVA Total	4.0 2.0 6.0	4.0 2.0 6.0	NONE		NONE		357	571	498	N/A	
Oct 09 06:31	TLR 3A	NEXT	6-NN Total	5 / 1 5 / 1	850 850	77.1 77.1	850 850	77.1 77.1	21 21	2.2 2.2	NONE			NONE				346	525	416	N/A	

Oct 09 07:30	TLR 3A	NEXT	6-NN 7-F Total	5 / 0 0 / 1 5 / 1	507 0 507	37.2 0.0 37.2	507 0 507	37.2 0.0 37.2	0 75 75	0.0 7.9 7.9	NONE	NONE	357	588	491	N/A
Oct 09 08:29	TLR 3A	NEXT	6-NN Total	5 / 0 5 / 0	446 446	33.1 33.1	446 446	33.1 33.1	0 0	0.0 0.0	NONE	NONE	351	580	533	N/A
Oct 09 09:28	TLR 3A	NEXT	6-NN 7-F Total	5 / 0 0 / 1 5 / 1	303 0 303	23.1 0.0 23.1	303 0 303	23.1 0.0 23.1	0 10 10	0.0 0.5 0.5	NONE	NONE	325	538	494	N/A
Oct 09 10:29	TLR 3A	NEXT	6-NN Total	5 / 0 5 / 0	281 281	20.1 20.1	281 281	20.1 20.1	0 0	0.0 0.0	NONE	NONE	336	581	569	N/A
Oct 09 11:30	TLR 3A	NEXT	6-NN Total	6 / 0 6 / 0	559 559	44.4 44.4	559 559	44.4 44.4	0 0	0.0 0.0	NONE	NONE	314	615	700	N/A
Oct 09 12:28	TLR 3A	NEXT	6-NN Total	5 / 0 5 / 0	550 550	42.3 42.3	550 550	42.3 42.3	0 0	0.0 0.0	NONE	NONE	301	592	675	N/A
Oct 09 13:39	TLR 3A	NEXT	6-NN Total	5 / 0 5 / 0	550 550	42.4 42.4	550 550	42.4 42.4	0 0	0.0 0.0	NONE	NONE	272	551	647	N/A
Oct 09 14:38	TLR 3A	NEXT	NONE								NONE	NONE	259	528	624	N/A
Oct 09 15:32	TLR 1	CURRENT	NONE								NONE	NONE	233	460	528	N/A
Oct 09 18:41	TLR 0	CURRENT	NONE								NONE	NONE	190	276	200	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	6	1200	1200	0
2	16	2060	2060	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	137	14420	14420	71
7	483	2951	2951	624
Total	642	20631	20631	695

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	488.0	470.0
TVA	166.0	166.0
Total	634.0	636.0