

**ICTE TLR 5 Investigation Report**  
**Flowgate 1968**  
**(Baxter Wilson - Ray Braswell 500 kV for the loss of Grand Gulf - Franklin 500 kV)**  
**TLR Level 5: May 12, 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 1968 on May 12, 2009. Flowgate 1968 is an Entergy flowgate. The TLR 5 was in effect from 12:33 PM until 10:30 PM on May 12, 2009. Projected post-contingent flows on the Baxter Wilson - Ray Braswell 500 kV line for the loss of the Grand Gulf - Franklin 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 1053 MVA. Flow on the Contingent Element was 1033 MVA. The LODF was approximately 75%. Post-contingent flow on the Limiting Element was approximately 1826 MVA.

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

TLRs levels, timing and relief requested amounts are shown on pages 3 through 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 their NNL obligation by moving Perryville 1, Nine Mile 5, and Baxter Wilson 2.

## Event History

**Issuing RC:** ICTE  
**Flowgate:** 1968 - BaxterWilson-RayBraswell 500kv FTLO Grand Gulf-Franklin 500kv  
**Event Begin:** 2009-05-12 10:20  
**Event End:** 2009-05-13 00:30  
**Event Duration:** 14 Hours

TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
<a href="#">TLR Level 1</a>	05/12/2009 10:20	05/12/2009 10:10	05/12/2009 10:09:50	0.0	0.0	0.0	0	0
<a href="#">TLR Level 3A</a>	05/12/2009 11:00	05/12/2009 10:30	05/12/2009 10:29:59	72.0	12.8	59.2	8	696
<a href="#">TLR Level 5A</a>	05/12/2009 12:00	05/12/2009 11:33	05/12/2009 11:29:06	73.0	0.0	74.6	39	539
<a href="#">TLR Level 5A</a>	05/12/2009 13:00	05/12/2009 12:30	05/12/2009 12:29:01	74.0	0.0	98.6	42	409
<a href="#">TLR Level 5A</a>	05/12/2009 14:00	05/12/2009 13:33	05/12/2009 13:31:20	63.0	0.0	119.6	43	500
<a href="#">TLR Level 5A</a>	05/12/2009 15:00	05/12/2009 14:36	05/12/2009 14:30:38	71.0	0.0	139.2	43	535
<a href="#">TLR Level 5A</a>	05/12/2009 16:00	05/12/2009 15:30	05/12/2009 15:29:44	67.0	0.0	148.7	42	501
<a href="#">TLR Level 5A</a>	05/12/2009 17:00	05/12/2009 16:31	05/12/2009 16:29:44	32.0	0.0	128.1	41	456
<a href="#">TLR Level 5A</a>	05/12/2009 18:00	05/12/2009 17:28	05/12/2009 17:27:06	45.0	0.0	124.6	41	390
<a href="#">TLR Level 5A</a>	05/12/2009 19:00	05/12/2009 18:28	05/12/2009 18:27:23	57.0	0.0	140.9	39	467
<a href="#">TLR Level 5A</a>	05/12/2009 20:00	05/12/2009 19:30	05/12/2009 19:25:52	156.0	0.0	244.6	43	578
<a href="#">TLR Level 5A</a>	05/12/2009 21:00	05/12/2009 20:29	05/12/2009 20:28:51	0.0	0.0	129.6	40	422
<a href="#">TLR Level 5A</a>	05/12/2009 22:00	05/12/2009 21:26	05/12/2009 21:26:01	25.0	0.0	96.4	41	397
<a href="#">TLR Level 4</a>	05/12/2009 22:40	05/12/2009 22:27	05/12/2009 22:26:23	0.0	0.0	0.0	0	0
<a href="#">TLR Level 3A</a>	05/13/2009 00:00	05/12/2009 23:28	05/12/2009 23:28:17	0.0	0.0	0.0	0	0
<a href="#">TLR Level 0</a>	05/13/2009 00:30	05/13/2009 00:17	05/13/2009 00:17:32	0.0	0.0	0.0	0	0

## Event Summary

FILE SAVED AS: ICTE\_1968\_20090512\_1020.htm

Incident: ICTE_1968_20090512_1020	Date: 05/12/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1968 - Baxter/Wilson-Ray/Braswell 500kv...	Rating: 1732	LODF: 72.92%
TLR Direction: Normal		
Effective StartTime: 05/12/2009 10:20	Effective EndTime: 05/13/2009 00:30	TLR Duration: 14 Hours and 10 Minutes

## TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule						NHL 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 12 10:10	TLR 1	CURRENT		NONE						NONE							1040 1703 910			N/A				
May 12 10:30	TLR 3A	NEXT	1-NS 2-NH 6-NN 7-F <b>Total</b>	1 / 0 2 / 1 4 / 0 0 / 1 <b>7 / 2</b>	103 66 517 0 <b>686</b>	5.7 7.0 45.9 0 <b>58.6</b>	103 66 517 0 <b>686</b>	5.7 7.0 45.9 0 <b>58.6</b>	0 26 45.9 36 <b>61</b>	0 0 0 0 <b>0</b>	0 0 0 0 <b>0</b>	NONE							1054 1770 882			N/A		
May 12 11:33	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	2 / 0 4 / 0 33 / 0 <b>39 / 0</b>	66 416 87 <b>539</b>	7.0 39.5 6.6 <b>52.0</b>	66 416 87 <b>539</b>	7.0 39.5 6.6 <b>52.0</b>	0 0 0 <b>0</b>	0 0 0 <b>0</b>	EES LAGN <b>Total</b>	22.0 1.0 <b>23.0</b>	22.0 1.0 <b>23.0</b>	NONE							1053 1806 1033			N/A
May 12 12:30	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	1 / 0 2 / 1 39 / 0 <b>42 / 1</b>	50 266 102 <b>409</b>	5.5 26.1 10.3 <b>43.9</b>	50 266 102 <b>409</b>	5.5 26.1 10.3 <b>43.9</b>	0 0 0 <b>0</b>	0 0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	0.0 64.0 1.0 <b>65.0</b>	1.0 64.0 1.0 <b>66.0</b>	NONE							1026 1780 1036			N/A
May 12 12:33	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	1 / 0 2 / 0 39 / 0 <b>43 / 0</b>	50 333 117 <b>500</b>	5.5 35.5 12.1 <b>53.1</b>	50 333 117 <b>500</b>	5.5 35.5 12.1 <b>53.1</b>	0 0 0 <b>0</b>	0 0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	1.0 64.0 1.0 <b>66.0</b>	1.0 64.0 1.0 <b>66.0</b>	NONE							1028 1784 1037			N/A
May 12 14:36	TLR 5A	NEXT	2-NH 6-NN 7-F <b>Total</b>	1 / 0 2 / 0 39 / 0 <b>42 / 0</b>	50 266 129 <b>435</b>	5.5 26.1 13.2 <b>46.8</b>	50 266 129 <b>435</b>	5.5 26.1 13.2 <b>46.8</b>	0 0 0 <b>0</b>	0 0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	1.0 73.0 2.0 <b>76.0</b>	1.0 73.0 2.0 <b>76.0</b>	NONE							1037 1805 1054			N/A
May 12 15:30	TLR 5A	NEXT	6-NN 7-F <b>Total</b>	2 / 0 38 / 0 <b>40 / 0</b>	257 139 <b>396</b>	26.4 14.6 <b>43.0</b>	257 139 <b>396</b>	26.4 14.6 <b>43.0</b>	0 0 <b>0</b>	0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	1.0 90.0 2.0 <b>93.0</b>	1.0 90.0 2.0 <b>93.0</b>	NONE							1002 1750 1027			N/A
May 12 15:31	TLR 5A	NEXT	6-NN 7-F <b>Total</b>	2 / 0 38 / 0 <b>40 / 0</b>	258 193 <b>451</b>	26.5 21.6 <b>50.1</b>	258 193 <b>451</b>	26.5 21.6 <b>50.1</b>	0 0 <b>0</b>	0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	1.0 90.0 2.0 <b>93.0</b>	1.0 90.0 2.0 <b>93.0</b>	NONE							1002 1707 967			N/A
May 12 17:28	TLR 5A	NEXT	6-NN 7-F <b>Total</b>	2 / 0 39 / 0 <b>41 / 0</b>	257 132 <b>390</b>	26.4 14.1 <b>42.5</b>	257 132 <b>390</b>	26.4 14.1 <b>42.5</b>	0 0 <b>0</b>	0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	1.0 75.0 2.0 <b>78.0</b>	1.0 75.0 2.0 <b>78.0</b>	NONE							1014 1740 997			N/A
May 12 18:28	TLR 5A	NEXT	6-NN 7-F <b>Total</b>	2 / 0 36 / 0 <b>38 / 0</b>	257 130 <b>387</b>	26.4 13.7 <b>42.1</b>	257 130 <b>387</b>	26.4 13.7 <b>42.1</b>	0 0 <b>0</b>	0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	1.0 84.0 2.0 <b>87.0</b>	1.0 84.0 2.0 <b>87.0</b>	NONE							1040 1758 988			N/A
May 12 19:30	TLR 5A	NEXT	6-NN 7-F <b>Total</b>	2 / 0 41 / 0 <b>43 / 0</b>	255 320 <b>578</b>	26.5 13.7 <b>63.6</b>	255 320 <b>578</b>	26.5 13.7 <b>63.6</b>	0 0 <b>0</b>	0 0 <b>0</b>	CLEC EES LAGN SPA <b>Total</b>	2.0 175.0 4.0 1.0 <b>182.0</b>	2.0 175.0 4.0 1.0 <b>182.0</b>	NONE							927 1640 978			N/A
May 12 20:29	TLR 5A	NEXT	1-NS 6-NN 7-F <b>Total</b>	4 / 0 1 / 0 35 / 0 <b>40 / 0</b>	216 103 103 <b>422</b>	33.2 11.4 10.2 <b>59.8</b>	216 103 103 <b>422</b>	33.2 11.4 10.2 <b>59.8</b>	0 0 0 <b>0</b>	0 0 0 <b>0</b>	CLEC EES LAGN <b>Total</b>	1.0 67.0 2.0 <b>70.0</b>	1.0 67.0 2.0 <b>70.0</b>	NONE							997 1628 866			N/A
May 12 21:28	TLR 5A	NEXT	1-NS 2-NH 6-NN 7-F <b>Total</b>	4 / 0 1 / 0 1 / 0 35 / 0 <b>41 / 0</b>	208 19 103 67 <b>397</b>	33.8 1.6 11.4 8.7 <b>56.3</b>	208 19 103 67 <b>397</b>	33.8 1.6 11.4 8.7 <b>56.3</b>	0 0 0 0 <b>0</b>	0 0 0 0 <b>0</b>	EES LAGN <b>Total</b>	39.0 1.0 <b>40.0</b>	39.0 1.0 <b>40.0</b>	NONE							915 1567 895			N/A
May 12 22:27	TLR 4	CURRENT		NONE						NONE							808 1454 888			N/A				
		NEXT	1-NS 6-NN <b>Total</b>	3 / 0 2 / 0 <b>5 / 0</b>	162 89 <b>231</b>	23.7 9.0 <b>33.7</b>	162 89 <b>231</b>	23.7 9.0 <b>33.7</b>	0 0 <b>0</b>	0 0 <b>0</b>	NONE													
May 12 22:28	TLR 3A	NEXT		NONE						NONE							696 1326 862			N/A				
May 13 00:17	TLR 0	CURRENT		NONE						NONE							719 1362 883			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	12	689	689	0
2	8	301	301	26
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	29	3341	3341	60
7	412	1490	1490	38
<b>Total</b>	<b>461</b>	<b>5821</b>	<b>5821</b>	<b>111</b>

### TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
CLEC	9.0	10.0
EES	828.0	828.0
LAGN	20.0	20.0
SPA	1.0	1.0
<b>Total</b>	<b>856.0</b>	<b>857.0</b>