

**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: June 11, 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 June 11, 2009. Flowgate 1968 is an Entergy flowgate. The TLR 5 was in effect from 11:00 AM on June 11 until 12:30 AM on June 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 5b was issued, the Limiting Element was rated at 1732 MVA. Flow on the Limiting Element was 1150 MVA. Flow on the Contingent Element was 1057 MVA. The LODF was approximately 74%. Post-contingent flow on the Limiting Element was approximately 1934 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 was an unplanned outage, Nine Mile 5.

**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 was a reliability purchase made to provide NNL on flowgate 1968. Tag SME\_ENTEMOEMO1243\_EES was excluded from the TLR3a on flowgate 1365 due to the reliability need on flowgate 1968.

**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 Rex Brown 4, Baxter Wilson 1 and 2, Amite South Generation, Attala 1 and White Bluff. Entergy also made a reliability purchase to provide NNL.

## Event History

**Issuing RC:** ICTE  
**Flowgate:** 1968 - BaxterWilson-RayBraswell 500kv FTLO Grand Gulf-Franklin 500kv  
**Event Begin:** 2009-06-11 08:45  
**Event End:** 2009-06-11 23:40  
**Event Duration:** 15 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 4</a>	06/11/2009 08:45	06/11/2009 08:32	06/11/2009 08:32:07	0.0	0.0	0.0	2	148
<a href="#">TLR Level 5B</a>	06/11/2009 09:20	06/11/2009 09:10	06/11/2009 09:07:07	120.0	0.0	122.2	46	318
<a href="#">TLR Level 5A</a>	06/11/2009 11:00	06/11/2009 10:31	06/11/2009 10:28:39	236.0	0.0	313.4	46	960
<a href="#">TLR Level 5A</a>	06/11/2009 12:00	06/11/2009 11:36	06/11/2009 11:32:39	299.0	0.0	483.3	52	1645
<a href="#">TLR Level 5A</a>	06/11/2009 13:00	06/11/2009 12:40	06/11/2009 12:38:26	259.0	0.0	541.8	58	1926
<a href="#">TLR Level 5A</a>	06/11/2009 14:00	06/11/2009 13:36	06/11/2009 13:33:54	262.0	0.0	542.5	63	1939
<a href="#">TLR Level 5A</a>	06/11/2009 15:00	06/11/2009 14:41	06/11/2009 14:39:42	269.0	0.0	549.5	60	1959
<a href="#">TLR Level 5A</a>	06/11/2009 16:00	06/11/2009 15:37	06/11/2009 15:34:02	213.0	0.0	497.6	59	1846
<a href="#">TLR Level 5A</a>	06/11/2009 17:00	06/11/2009 16:31	06/11/2009 16:31:16	180.0	0.0	429.3	60	1765
<a href="#">TLR Level 5A</a>	06/11/2009 18:00	06/11/2009 17:33	06/11/2009 17:32:25	156.0	0.0	362.8	56	1435
<a href="#">TLR Level 5A</a>	06/11/2009 19:00	06/11/2009 18:32	06/11/2009 18:31:23	88.0	0.0	275.4	52	991
<a href="#">TLR Level 5A</a>	06/11/2009 20:00	06/11/2009 19:32	06/11/2009 19:31:38	121.0	0.0	280.5	51	991
<a href="#">TLR Level 5A</a>	06/11/2009 21:00	06/11/2009 20:28	06/11/2009 20:28:03	31.0	0.0	194.3	43	756
<a href="#">TLR Level 5A</a>	06/11/2009 22:00	06/11/2009 21:29	06/11/2009 21:28:52	0.0	0.0	80.1	41	460
<a href="#">TLR Level 5A</a>	06/11/2009 23:00	06/11/2009 22:29	06/11/2009 22:29:25	0.0	0.0	39.5	6	571
<a href="#">TLR Level 0</a>	06/11/2009 23:40	06/11/2009 23:27	06/11/2009 23:26:45	0.0	0.0	0.0	0	0

06/12/2009 08:51:16 (CST)

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### Event Summary

FILE SAVED AS: ICTE\_1968\_20090611\_0845.htm

Incident: ICTE_1968_20090611_0845	Date: 06/11/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1968 - BaxterWilson-RayBraswell 500kv...	Rating: 1732	LODF: 74.32%
TLR Direction: Normal		
Effective StartTime: 06/11/2009 08:45	Effective EndTime: 06/11/2009 23:40	TLR Duration: 14 Hours and 55 Minutes

### TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule								NNL Relief			Market Relief			Flow		Cont. Flow	TLR Action Comments	
				Total Tags Cut / Hold		IDC Cut		RC Cut Acknowledge		Hold		CA	IDC MW	RC Akn MW	Type	Mkt	IDC MW	RC Akn MW	Current			Post Cont.
				MW	Relief	MW	Relief	MW	Relief	MW	Relief											
Jun 11 08:32	TLR 4	CURRENT	2-NH 6-NN Total	1 / 0 1 / 0 2 / 0	100 48 451	8.0 3.9 9.9	100 48 148	8.0 3.9 9.9	0 0 0	0.0 0.0 0.0	NONE			NONE			1150	1935	1057	N/A		
		NEXT	6-NN Total	2 / 0 2 / 0	303 451	23.7 23.7	303 303	23.7 23.7	0 0	0.0 0.0	NONE			NONE								
Jun 11 09:10	TLR 5B	CURRENT	7-F Total	48 / 0 46 / 0	318 318	46.9 46.9	318 318	46.9 46.9	0 0	0.0 0.0	CLEC EES LAGN TVA Total	2.0 68.0 4.0 2.0 76.0	2.0 68.0 4.0 2.0 76.0	NONE			1150	1935	1057	N/A		
		NEXT	2-NH 6-NN 7-F Total	1 / 0 2 / 0 42 / 2 45 / 2	17 258 283 318	1.3 21.4 42.3 65.0	17 258 283 558	1.3 21.4 42.3 65.0	0 0 120 120	0.0 0.0 9.4 9.4	NONE			NONE								
Jun 11 10:31	TLR 5A	NEXT	7-F Total	45 / 0 45 / 0	703 703	110.2 110.2	703 703	110.2 110.2	0 0	0.0 0.0	CLEC EES LAGN TVA Total	6.0 194.0 8.0 3.0 181.0	6.0 194.0 8.0 3.0 182.0	NONE			1172	2032	1158	N/A		
Jun 11 11:38	TLR 5A	NEXT	7-F Total	50 / 0 50 / 0	1338 1338	205.4 205.4	1338 1338	205.4 205.4	0 0	0.0 0.0	CLEC EES LAGN TVA Total	11.0 219.0 15.0 6.0 251.0	11.0 219.0 15.0 6.0 251.0	NONE			1042	1903	1159	N/A		
Jun 11 12:40	TLR 5A	NEXT	7-F Total	56 / 0 56 / 0	1618 1618	237.8 237.8	1618 1618	237.8 237.8	0 0	0.0 0.0	CLEC EES LAGN TVA Total	12.0 242.0 16.0 7.0 277.0	13.0 242.0 16.0 7.0 278.0	NONE			942	1733	1065	N/A		
Jun 11 13:38	TLR 5A	NEXT	7-F Total	61 / 0 61 / 0	1632 1632	238.1 238.1	1632 1632	238.1 238.1	0 0	0.0 0.0	CLEC EES LAGN TVA Total	13.0 242.0 16.0 7.0 278.0	13.0 242.0 16.0 7.0 278.0	NONE			961	1780	1103	N/A		
Jun 11 14:41	TLR 5A	NEXT	7-F Total	58 / 0 58 / 0	1652 1652	241.2 241.2	1652 1652	241.2 241.2	0 0	0.0 0.0	CLEC EES LAGN TVA Total	13.0 245.0 17.0 7.0 282.0	13.0 245.0 17.0 7.0 282.0	NONE			924	1787	1135	N/A		
Jun 11 15:37	TLR 5A	NEXT	7-F Total	57 / 0 57 / 0	1539 1539	225.2 225.2	1539 1539	225.2 225.2	0 0	0.0 0.0	CLEC EES LAGN TVA Total	12.0 212.0 15.0 7.0 246.0	12.0 212.0 15.0 7.0 247.0	NONE			820	1636	1099	N/A		
Jun 11 16:31	TLR 5A	NEXT	7-F Total	56 / 0 56 / 0	1252 1252	183.5 183.5	1252 1252	183.5 183.5	0 0	0.0 0.0	CLEC EES LAGN TVA Total	10.0 176.0 13.0 6.0 205.0	10.0 176.0 13.0 6.0 205.0	NONE			797	1558	1025	N/A		
Jun 11 17:33	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 53 / 0 55 / 0	108 258 1021 1385	10.0 21.2 141.5 172.7	108 258 1021 1385	10.0 21.2 141.5 172.7	0 0 0 0	0.0 0.0 0.0 0.0	CLEC EES LAGN TVA Total	8.0 160.0 12.0 5.0 185.0	8.0 160.0 12.0 5.0 185.0	NONE			839	1584	1003	N/A		
Jun 11 18:32	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 50 / 1 52 / 1	108 257 628 991	10.0 21.1 87.2 118.3	108 257 628 991	10.0 21.1 87.2 118.3	0 0 50 50	0.0 0.0 5.5 5.5	CLEC EES LAGN TVA Total	5.0 142.0 7.0 3.0 157.0	5.0 142.0 7.0 3.0 157.0	NONE			868	1578	966	N/A		
Jun 11 19:32	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 1 / 0 49 / 0 51 / 0	108 257 623 991	10.0 21.1 87.7 118.8	108 257 623 991	10.0 21.1 87.7 118.8	0 0 0 0	0.0 0.0 0.0 0.0	CLEC EES LAGN TVA Total	5.0 146.0 8.0 3.0 162.0	5.0 146.0 8.0 3.0 162.0	NONE			867	1683	1096	N/A		
Jun 11 20:28	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 2 / 0 40 / 0 43 / 0	52 335 389 756	3.4 25.5 47.2 76.0	52 335 389 756	3.4 25.5 47.2 76.0	0 0 0 0	0.0 0.0 0.0 0.0	CLEC EES LAGN TVA Total	3.0 107.0 6.0 2.0 118.0	3.0 107.0 6.0 2.0 118.0	NONE			855	1708	1148	N/A		
Jun 11 21:29	TLR 5A	NEXT	2-NH 6-NN 7-F Total	1 / 0 3 / 0 37 / 0 41 / 0	51 277 132 460	3.3 22.2 16.3 42.3	51 277 132 460	3.3 22.2 16.3 42.3	0 0 0 0	0.0 0.0 0.0 0.0	CLEC EES LAGN TVA Total	1.0 34.0 2.0 1.0 38.0	1.0 34.0 2.0 1.0 38.0	NONE			850	1599	1008	N/A		
Jun 11 22:28	TLR 5A	NEXT	1-NS 6-NN Total	4 / 0 2 / 1 6 / 1	288 273 571	17.6 21.9 39.5	288 273 571	17.6 21.9 39.5	0 5 5	0.0 0.3 0.3	NONE			NONE			881	1657	1045	N/A		
Jun 11 23:27	TLR 0	CURRENT				NONE								NONE			NONE		842	1597	1016	N/A

### TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MV	RC Cut Acknowledge MV	Hold MV
0	0	0	0	0
1	4	298	298	0
2	7	538	538	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	15	2200	2200	5
7	700	13113	13113	170
<b>Total</b>	<b>726</b>	<b>16215</b>	<b>16215</b>	<b>175</b>

### TLR>NNL Totals

CA	NNL Relief	
	IDC MV	RC Ackn MV
CLEC	101.0	102.0
EES	2157.0	2157.0
LAGN	139.0	140.0
TVA	59.0	60.0
<b>Total</b>	<b>2456.0</b>	<b>2459.0</b>