

**ICTE TLR 5 Investigation Report
Flowgate 15565
(Quitman - Heber Springs 161 kV for the loss of Newport - Newport Industrial 161
kV)
TLR Level 5: January 29, 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 15565 on January 29, 2009. Flowgate 15565 is an Entergy flowgate. The TLR 5 was in effect from 11:09 AM on January 29, until 12:32 PM CST on January 30, 2009. Projected post-contingent flows on the Quitman - Heber Springs 161 kV line for the loss of the Newport - Newport Industrial 161 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 163 MVA. Flow on the Limiting Element was 83 MVA. Flow on the Contingent Element was 164 MVA. The LODF was approximately 99%. Post-contingent flow on the Limiting Element was approximately 245 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 unplanned outages; multiple 161 kV lines were out due to the ice storms.

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 had no NNL during this TLR Level 5.

Event History

Issuing RC: ICTE
Flowgate: 15565 - Quitman _ heber Springs South 161 kv (ftlo) Newport - Newport industrial 161kv
Event Begin: 2009-01-29 09:55
Event End: 2009-01-30 15:50
Event Duration: 30 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 3B	01/29/2009 09:55	01/29/2009 09:52	01/29/2009 09:52:14	20.0	13.8	6.2	3	80
TLR Level 3A	01/29/2009 11:00	01/29/2009 10:30	01/29/2009 10:29:41	70.0	67.6	2.4	2	31
TLR Level 5B	01/29/2009 11:20	01/29/2009 11:09	01/29/2009 11:07:24	110.0	0.0	110.4	13	166
TLR Level 5A	01/29/2009 13:00	01/29/2009 12:37	01/29/2009 12:32:37	0.0	0.0	22.6	14	76
TLR Level 5A	01/29/2009 14:00	01/29/2009 13:35	01/29/2009 13:33:25	0.0	0.0	0.6	1	10
TLR Level 5A	01/29/2009 14:00	01/29/2009 13:41	01/29/2009 13:40:12	107.0	0.0	107.3	13	329
TLR Level 5A	01/29/2009 15:00	01/29/2009 14:35	01/29/2009 14:34:17	0.0	0.0	47.0	14	86
TLR Level 5A	01/29/2009 16:00	01/29/2009 15:35	01/29/2009 15:33:51	28.0	0.0	68.8	14	104
TLR Level 5A	01/29/2009 17:00	01/29/2009 16:38	01/29/2009 16:33:04	0.0	0.0	59.3	16	112
TLR Level 5A	01/29/2009 18:00	01/29/2009 17:35	01/29/2009 17:31:26	9.0	0.0	60.2	16	115
TLR Level 5A	01/29/2009 19:00	01/29/2009 18:38	01/29/2009 18:37:56	0.0	0.0	51.7	16	97
TLR Level 5A	01/29/2009 20:00	01/29/2009 19:29	01/29/2009 19:29:14	8.0	0.0	52.7	14	85
TLR Level 5A	01/29/2009 21:00	01/29/2009 20:36	01/29/2009 20:34:36	23.0	0.0	69.5	14	104
TLR Level 5A	01/29/2009 22:00	01/29/2009 21:34	01/29/2009 21:33:37	9.0	0.0	70.8	14	97
TLR Level 5A	01/29/2009 23:00	01/29/2009 22:27	01/29/2009 22:26:49	0.0	0.0	30.8	14	50
TLR Level 5A	01/30/2009 00:00	01/29/2009 23:28	01/29/2009 23:28:08	0.0	0.0	24.4	13	47
TLR Level 5A	01/30/2009 01:00	01/30/2009 00:35	01/30/2009 00:34:45	23.0	0.0	44.2	13	75
TLR Level 5A	01/30/2009 02:00	01/30/2009 01:30	01/30/2009 01:30:02	0.0	0.0	38.9	12	63
TLR Level 5A	01/30/2009 03:00	01/30/2009 02:29	01/30/2009 02:29:03	8.0	0.0	42.4	13	61
TLR Level 5A	01/30/2009 04:00	01/30/2009 03:34	01/30/2009 03:33:31	3.0	0.0	41.1	11	48
TLR Level 5A	01/30/2009 05:00	01/30/2009 04:31	01/30/2009 04:30:44	7.0	0.0	44.8	13	65
TLR Level 5A	01/30/2009 06:00	01/30/2009 05:29	01/30/2009 05:29:10	4.0	0.0	44.1	14	71
TLR Level 5A	01/30/2009 07:00	01/30/2009 06:30	01/30/2009 06:27:06	53.0	0.0	91.9	15	158
TLR Level 5A	01/30/2009 08:00	01/30/2009 07:34	01/30/2009 07:31:59	63.0	0.0	143.1	15	241
TLR Level 5A	01/30/2009 09:00	01/30/2009 08:32	01/30/2009 08:30:39	15.0	0.0	139.9	13	204
TLR Level 5A	01/30/2009 10:00	01/30/2009 09:32	01/30/2009 09:30:59	0.0	0.0	121.3	13	178
TLR Level 5A	01/30/2009 11:00	01/30/2009 10:35	01/30/2009 10:32:40	0.0	0.0	77.8	12	115
TLR Level 5A	01/30/2009 12:00	01/30/2009 11:33	01/30/2009 11:29:08	0.0	0.0	62.2	12	101
TLR Level 5A	01/30/2009 13:00	01/30/2009 12:32	01/30/2009 12:31:41	0.0	0.0	22.8	12	39
TLR Level 1	01/30/2009 13:40	01/30/2009 13:29	01/30/2009 13:29:25	0.0	0.0	0.0	0	0
TLR Level 0	01/30/2009 15:50	01/30/2009 15:40	01/30/2009 15:40:40	0.0	0.0	0.0	0	0

02/02/2009 14:29:30 (CST)

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

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Event Summary

FILE SAVED AS: ICTE_15565_20090129_0955.htm

Incident: ICTE_15565_20090129_0955	Date: 01/29/2009	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 15565 - Quitman_heber Springs South ...	Rating: 163	LODF: 99.82%
TLR Direction: Normal		
Effective StartTime: 01/29/2009 09:55	Effective EndTime: 01/30/2009 15:50	TLR Duration: 29 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	MW	Relief	RC Cut Acknowledge	MW	Relief	MW	Relief	CA	IDC MW	RC Ackn MW	Type	Mit	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow	
Jan 29 09:55	TLR 3B	CURRENT	2-NH	2 / 0	55	4.3	55	4.3	0	0.0	NONE			NONE				80	261	182	N/A	
			6-NN	1 / 0	25	1.9	25	1.9	0	0.0	NONE			NONE								
			Total	3 / 0	135	6.2	80	6.2	0	0.0												
		NEXT	2-NH	3 / 0	73	5.7	73	5.7	0	0.0	NONE			NONE								
			6-NN	1 / 0	30	2.3	30	2.3	0	0.0	NONE			NONE								
			Total	4 / 1	135	8.0	103	8.0	44	3.4												
Jan 29 10:30	TLR 3A	NEXT	2-NH	2 / 0	31	2.4	31	2.4	0	0.0	NONE			NONE				83	241	159	N/A	
			Total	2 / 0	31	2.4	31	2.4	0	0.0												
Jan 29 11:00	TLR 5B	CURRENT	7-F	13 / 0	166	14.3	166	14.3	0	0.0	SPA	96.0	96.0	NONE				83	246	164	N/A	
			7-F	13 / 0	170	22.8	170	22.8	0	0.0	NONE			NONE								
			Total	13 / 0	166	14.3	166	14.3	0	0.0	SPA	96.0	96.0									
Jan 29 12:37	TLR 5A	NEXT	2-NH	1 / 0	10	0.7	10	0.7	0	0.0	SPA	16.0	16.0	NONE				59	73	15	N/A	
			7-F	13 / 0	66	5.7	66	5.7	0	0.0	NONE			NONE								
			Total	14 / 0	76	6.4	76	6.4	0	0.0	SPA	16.0	16.0									
Jan 29 13:35	TLR 5A	NEXT	2-NH	1 / 0	10	0.6	10	0.6	0	0.0	NONE			NONE				44	81	38	N/A	
			Total	1 / 0	10	0.6	10	0.6	0	0.0												
Jan 29 13:41	TLR 5A	NEXT	2-NH	1 / 0	10	0.6	10	0.6	0	0.0	SPA	83.0	83.0	NONE				7	132	126	N/A	
			7-F	12 / 0	319	23.3	319	23.3	0	0.0	NONE			NONE								
			Total	13 / 0	329	23.9	329	23.9	0	0.0	SPA	83.0	83.0									
Jan 29 14:35	TLR 5A	NEXT	2-NH	1 / 0	10	0.8	10	0.8	0	0.0	SPA	40.0	40.0	NONE				19	64	46	N/A	
			7-F	13 / 0	76	5.9	76	5.9	0	0.0	NONE			NONE								
			Total	14 / 0	86	6.7	86	6.7	0	0.0	SPA	40.0	40.0									
Jan 29 15:35	TLR 5A	NEXT	2-NH	1 / 0	10	0.8	10	0.8	0	0.0	SPA	61.0	61.0	NONE				50	180	131	N/A	
			7-F	13 / 0	94	7.3	94	7.3	0	0.0	NONE			NONE								
			Total	14 / 0	104	8.1	104	8.1	0	0.0	SPA	61.0	61.0									
Jan 29 16:38	TLR 5A	NEXT	2-NH	1 / 0	10	0.8	10	0.8	0	0.0	SPA	51.0	51.0	NONE				0	68	69	N/A	
			7-F	15 / 0	102	7.9	102	7.9	0	0.0	NONE			NONE								
			Total	16 / 0	112	8.7	112	8.7	0	0.0	SPA	51.0	51.0									

Jan 29 17:35	TLR 5A	NEXT	2-NH 7-F Total	1 / 0 15 / 0 16 / 0	10 105 115	0.8 8.1 8.9	10 105 115	0.8 8.1 8.9	0 0 0	0.0 0.0 0.0	SPA Total	51.0 51.0 51.0	51.0 51.0 51.0	NONE	25	143	119	N/A
Jan 29 18:38	TLR 5A	NEXT	2-NH 7-F Total	1 / 0 15 / 0 16 / 0	10 87 97	0.8 6.7 7.5	10 87 97	0.8 6.7 7.5	0 0 0	0.0 0.0 0.0	SPA Total	44.0 44.0 44.0	44.0 44.0 44.0	NONE	28	158	132	N/A
Jan 29 19:29	TLR 5A	NEXT	2-NH 7-F Total	1 / 0 13 / 0 14 / 0	10 75 85	0.8 5.8 6.6	10 75 85	0.8 5.8 6.6	0 0 0	0.0 0.0 0.0	SPA Total	46.0 46.0 46.0	46.0 46.0 46.0	NONE	23	150	128	N/A
Jan 29 20:36	TLR 5A	NEXT	2-NH 7-F Total	1 / 0 13 / 0 14 / 0	6 98 104	0.5 7.6 8.1	6 98 104	0.5 7.6 8.1	0 0 0	0.0 0.0 0.0	SPA Total	61.0 61.0 61.0	62.0 62.0 62.0	NONE	28	167	140	N/A
Jan 29 21:34	TLR 5A	NEXT	2-NH 7-F Total	1 / 0 13 / 0 14 / 0	6 91 97	0.5 7.1 7.5	6 91 97	0.5 7.1 7.5	0 0 0	0.0 0.0 0.0	SPA Total	63.0 63.0 63.0	63.0 63.0 63.0	NONE	24	112	89	N/A
Jan 29 22:27	TLR 5A	NEXT	2-NH 7-F Total	1 / 0 13 / 0 14 / 0	6 44 50	0.5 3.4 3.9	6 44 50	0.5 3.4 3.9	0 0 0	0.0 0.0 0.0	SPA Total	27.0 27.0 27.0	27.0 27.0 27.0	NONE	24	101	78	N/A
Jan 29 23:28	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 12 / 0 13 / 0	7 40 47	0.5 3.1 3.6	7 40 47	0.5 3.1 3.6	0 0 0	0.0 0.0 0.0	SPA Total	21.0 21.0 21.0	21.0 21.0 21.0	NONE	32	134	103	N/A
Jan 30 00:35	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 12 / 0 13 / 0	7 68 75	0.5 5.3 5.8	7 68 75	0.5 5.3 5.8	0 0 0	0.0 0.0 0.0	SPA Total	38.0 38.0 38.0	38.0 38.0 38.0	NONE	60	229	170	N/A
Jan 30 01:30	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 11 / 0 12 / 0	7 56 63	0.5 4.3 4.9	7 56 63	0.5 4.3 4.9	0 0 0	0.0 0.0 0.0	SPA Total	34.0 34.0 34.0	34.0 34.0 34.0	NONE	45	205	161	N/A
Jan 30 02:29	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 12 / 0 13 / 0	7 54 61	0.5 4.2 4.7	7 54 61	0.5 4.2 4.7	0 0 0	0.0 0.0 0.0	SPA Total	38.0 38.0 38.0	38.0 38.0 38.0	NONE	46	205	160	N/A
Jan 30 03:34	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 10 / 0 11 / 0	7 41 48	0.5 3.2 3.7	7 41 48	0.5 3.2 3.7	0 0 0	0.0 0.0 0.0	SPA Total	37.0 37.0 37.0	37.0 37.0 37.0	NONE	42	198	157	N/A
Jan 30 04:31	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 12 / 0 13 / 0	7 58 65	0.5 4.5 5.0	7 58 65	0.5 4.5 5.0	0 0 0	0.0 0.0 0.0	SPA Total	40.0 40.0 40.0	40.0 40.0 40.0	NONE	43	205	163	N/A
Jan 30 05:29	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 13 / 0 14 / 0	7 64 71	0.5 5.0 5.5	7 64 71	0.5 5.0 5.5	0 0 0	0.0 0.0 0.0	SPA Total	39.0 39.0 39.0	39.0 39.0 39.0	NONE	47	217	171	N/A
Jan 30 06:30	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 14 / 0 15 / 0	7 151 158	0.5 11.7 12.3	7 151 158	0.5 11.7 12.3	0 0 0	0.0 0.0 0.0	SPA Total	80.0 80.0 80.0	80.0 80.0 80.0	NONE	20	182	163	N/A
Jan 30 07:34	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 14 / 0 15 / 0	7 234 241	0.5 18.1 18.7	7 234 241	0.5 18.1 18.7	0 0 0	0.0 0.0 0.0	SPA Total	124.0 124.0 124.0	124.0 124.0 124.0	NONE	23	201	179	N/A
Jan 30 08:32	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 12 / 0 13 / 0	7 197 204	0.5 15.3 15.8	7 197 204	0.5 15.3 15.8	0 0 0	0.0 0.0 0.0	SPA Total	124.0 124.0 124.0	124.0 124.0 124.0	NONE	14	151	138	N/A
Jan 30 09:32	TLR 5A	NEXT	3-ND 7-F Total	1 / 0 12 / 0 13 / 0	7 171 178	0.5 13.3 13.8	7 171 178	0.5 13.3 13.8	0 0 0	0.0 0.0 0.0	SPA Total	108.0 108.0 108.0	108.0 108.0 108.0	NONE	15	138	124	Outman Heber Springs flow is -15
Jan 30 10:35	TLR 5A	NEXT	7-F Total	12 / 0 12 / 0	115 115	8.9 8.9	115 115	8.9 8.9	0 0 0	0.0 0.0 0.0	SPA Total	69.0 69.0 69.0	69.0 69.0 69.0	NONE	13	136	124	Outman Heber Springs flow is -13
Jan 30 11:33	TLR 5A	NEXT	7-F Total	12 / 0 12 / 0	101 101	7.8 7.8	101 101	7.8 7.8	0 0 0	0.0 0.0 0.0	SPA Total	54.0 54.0 54.0	54.0 54.0 54.0	NONE	11	132	122	Outman Heber Springs flow is -11
Jan 30 12:32	TLR 5A	NEXT	7-F Total	12 / 0 12 / 0	39 39	3.0 3.0	39 39	3.0 3.0	0 0 0	0.0 0.0 0.0	SPA Total	20.0 20.0 20.0	20.0 20.0 20.0	NONE	15	89	75	Outman Heber Springs flow is -15
Jan 30 13:29	TLR 1	CURRENT				NONE						NONE		NONE	15	95	81	N/A
Jan 30 15:40	TLR 0	CURRENT				NONE						NONE		NONE	51	119	69	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	20	277	277	0
3	11	77	77	0
4	0	0	0	0
5	0	0	0	0
6	2	55	55	0
7	344	2882	2882	44
Total	377	3291	3291	44

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
SPA	1465.0	1466.0
Total	1465.0	1466.0