

**TVA RC TLR 5 Report  
Flowgate 1377  
Fairport - Lathrop 161 KV (flo) Iatan - Stranger 345 KV + Lake Rd. - Nashua 161 KV  
TLR Level 5: 01/09/2008**

**1. Description of purpose/cause of hold/curtailment.**

This report is submitted for the TLR 5 event that occurred on Flowgate 1377 on January 09, 2008. Flowgate 1377 is an AECI flowgate. The TLR event was in effect from 0930 on 01/08/08 to 1830 on 01/09/08, and the TLR 5 status was in effect from 0333 on 01/09/08 to 0800 on 01/09/08. Projected post-contingent flows on the Fairport - Lathrop 161 KV line for the loss of the Iatan - Stranger 345 KV line along with the Lake Rd. - Nashua 161 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 202 MVA normal and 252 MVA emergency. Pre-contingent flow on the Limiting Element was 112 MVA, with post-contingent flow at 306 MVA.

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

TLR 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.**

The scheduled outage of the MPS Hawthorn - St. Joe 345 KV was a contributing factor.

**5. Procedures implemented prior to hold/curtailment.**

The temporary Operating Guide "Hawthorn - St. Joseph 345 KV Prior Outage - Special - 2008-004" was implemented. All available non-firm transactions were being curtailed through TLR 3B and then TLR 3A on flowgate 1377. No reconfiguration options were available.

**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 TVA 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.**

None.

**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 TVA Reliability Coordinator was monitoring their state estimator for potential issues during this time. All pertinent data was archived.

**11. ATC limitations before, during, and after the TLR event.**

None.

**12. Description of actions taken to avoid future hold/curtailments.**

This TLR was due to a scheduled transmission outage and had an Operating Guide in place. No other action was 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.**

Redispatch actions were performed to meet NNL obligations.

Event Summary

FILE SAVED AS: TVA\_1377\_20080108\_0930.htm

Incident:	TVA_1377_20080108_0930	Date:	01/08/2008	Reliability Coordinator:	TVA
Initial Conditions:	N/A				
Flowgate:	1377 - Fairport-Lathrop for loss of I...	Rating:	0	LODF:	14.57%
TLR Direction:	Normal				
Effective StartTime:	01/08/2008 09:30	Effective EndTime:	01/09/2008 18:30	TLR Duration:	33 Hours and 0 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Schedule								NNL Relief			Market Relief			Flow		Cont. Flow	TLR Action Comments
			Priority	Total Tags Cut / Hold	IDC Cut		RC Cut Acknowledge		Hold		CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current		
Jan 08 09:16	TLR 3B	CURRENT	2-NH	7 / 0	214	14.8	214	14.8	0	0.0	NONE	ED-2	SWPP	0.0	0.0	75	75	0	Cont Loading from 2 elements	
			3-ND	12 / 0	48	4.6	48	4.6	0	0.0										FIRM-7
			6-NN	20 / 0	390	20.3	277	20.3	0	0.0		Total								
			Total																	
		NEXT	2-NH	7 / 0	139	11.6	139	11.6	0	0.0	NONE	ED-2	SWPP	0.0	0.0					
			3-ND	7 / 0	390	11.6	139	11.6	0	0.0										FIRM-7
			Total	0								Total								
Jan 08 09:41	TLR 3A	NEXT	2-NH	8 / 0	170	13.3	170	13.3	0	0.0	NONE	ED-2	SWPP	0.0	0.0	0	0	0	N/A	
			3-ND	10 / 0	10	0.6	10	0.6	0	0.0										ED-6
			6-NN	19 / 0	121	10.7	121	10.7	0	0.0		FIRM-7	SWPP	0.0	0.0					
			Total		301	24.6	301	24.6	0	0.0		Total		0.0	0.0					
Jan 08 10:30	TLR 3A	NEXT	2-NH	6 / 0	140	10.8	140	10.8	0	0.0	NONE	ED-2	SWPP	0.0	0.0	0	0	0	N/A	
			3-ND	11 / 0	75	4.5	75	4.5	0	0.0										ED-6
			6-NN	18 / 0	253	22.2	253	22.2	0	0.0		FIRM-7	SWPP	0.0	0.0					
			Total		468	37.5	468	37.5	0	0.0		Total		0.0	0.0					
Jan 08 11:26	TLR 3A	NEXT	2-NH	6 / 0	142	11.1	142	11.1	0	0.0	NONE	ED-2	SWPP	0.0	0.0	0	0	0	N/A	
			3-ND	1 / 0	75	4.5	75	4.5	0	0.0										ED-6
			6-NN	8 / 0	49	3.0	49	3.0	0	0.0		FIRM-7	SWPP	0.0	0.0					
			Total		266	18.6	266	18.6	0	0.0		Total		0.0	0.0					

Jan 08 12:41	TLR 3A	NEXT	2- NH 3- ND 6- NN Total	7 / 0 1 / 0 10 / 0 18 / 0 0	199 75 191 465	15.9 4.6 12.3 32.8	199 75 191 465	15.9 4.6 12.3 32.8	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 0 0 0	0 0 0 0	0 0 0 0	N/A	
Jan 08 13:39	TLR 3A	NEXT	2- NH 3- ND 6- NN Total	7 / 0 1 / 0 11 / 0 19 / 0 0	191 75 368 634	14.1 4.6 27.1 45.8	191 75 368 634	14.1 4.6 27.1 45.8	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 0 0 0	0 0 0 0	0 0 0 0	N/A	
Jan 08 14:26	TLR 3A	NEXT	2- NH 3- ND 6- NN Total	7 / 0 1 / 0 11 / 0 19 / 0 0	188 75 153 416	13.2 4.3 12.2 29.6	188 75 153 416	13.2 4.3 12.2 29.6	0 0 0 0	0.0 0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 0 0 0	0 0 0 0	0 0 0 0	N/A	
Jan 08 15:27	TLR 3A	NEXT	2- NH 3- ND 6- NN Total	7 / 0 7 / 0 7 / 0 0	89 89	7.6 7.6	89 89	7.6 7.6	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	65 65	65 65	0 0	Cont Loading from 2 elements	
Jan 08 16:33	TLR 1	CURRENT	NONE								NONE	NONE				0	0	0	0	N/A
Jan 08 20:34	TLR 3A	NEXT	2- NH 6- NN Total	8 / 4 12 / 0 20 / 0 4	234 353 587	16.2 32.5 48.7	234 353 587	16.2 32.5 48.7	562 0 562	36.9 0.0 36.9	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 0	0 0	0 0	N/A	
Jan 08 21:33	TLR 3A	NEXT	2- NH 3- ND 6- NN Total	9 / 1 3 / 0 8 / 0 20 / 0 1	657 450 561 1668	45.4 25.7 41.4 112.5	657 450 561 1668	45.4 25.7 41.4 112.5	15 0 0 15	0.9 0.0 0.0 0.9	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 0	0 0	0 0	N/A	
Jan 08 22:30	TLR 3A	NEXT	2- NH 6- NN Total	10 / 0 9 / 0 19 / 0 0	375 586 961	22.3 44.8 67.0	375 586 961	22.3 44.8 67.0	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 0	0 0	0 0	N/A	
Jan 08 23:37	TLR 3A	NEXT	2- NH 6- NN Total	6 / 1 7 / 0 13 / 0 1	51 584 635	4.7 42.1 46.8	51 584 635	4.7 42.1 46.8	50 0 50	4.2 0.0 4.2	NONE	ED-2 ED-6 FIRM- 7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 0	0 0	0 0	N/A	

Jan 09 00:34	TLR 3A	NEXT	2-NH 6-NN Total	7 / 0 7 / 0 14 / 0	148 584 732	12.2 43.8 56.0	148 584 732	12.2 43.8 56.0	0 0 0	0.0 0.0 0.0	NONE			ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	82	154	495	Double Ctg.
Jan 09 01:31	TLR 3A	NEXT	2-NH 6-NN Total	7 / 0 7 / 0 14 / 0	148 584 732	11.7 40.7 52.5	148 584 732	11.7 40.7 52.5	0 0 0	0.0 0.0 0.0	NONE			ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A
Jan 09 02:23	TLR 5B	CURRENT	6-NN 7-F Total	3 / 0 44 / 0 47 / 0	729 299 1028	36.9 22.5 59.4	729 299 1028	36.9 22.5 59.4	0 0 0	0.0 0.0 0.0	AECI MPS Total	9.0 6.0 15.0	9.0 6.0 15.0	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 7.0 25.0 32.0	0.0 7.0 25.0 32.0	0	0	0	N/A
		NEXT	2-NH 6-NN 7-F Total	6 / 0 11 / 0 40 / 0 57 / 0	72 1302 296 1028	7.2 80.0 22.3 109.4	72 1302 296 1670	7.2 80.0 22.3 109.4	0 0 0 0	0.0 0.0 0.0 0.0	NONE			NONE							
Jan 09 03:33	TLR 5B	CURRENT	2-NH 3-ND 7-F Total	4 / 0 1 / 0 29 / 0 34 / 0	520 200 106 826	29.4 10.6 7.9 47.9	520 200 31 751	29.4 10.6 2.6 42.6	0 0 0 0	0.0 0.0 0.0 0.0	AECI MPS Total	15.0 9.0 24.0	9.0 6.0 15.0	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 31.0 3.0 34.0	0.0 31.0 3.0 34.0	0	0	0	N/A
		NEXT	2-NH 3-ND 6-NN 7-F Total	10 / 0 1 / 0 6 / 0 35 / 0 52 / 0	620 200 409 338 826	38.2 10.6 29.8 26.0 104.6	570 200 109 100 979	34.3 10.6 13.3 8.9 67.1	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	NONE			NONE							
Jan 09 03:36	TLR 5A	NEXT	2-NH 3-ND 6-NN 7-F Total	10 / 0 1 / 0 6 / 0 39 / 0 56 / 0	620 200 409 392 1621	38.2 10.6 29.8 31.5 110.1	620 200 409 392 1621	38.2 10.6 29.8 31.5 110.1	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	AECI MPS Total	21.0 12.0 33.0	21.0 12.0 33.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 54.1 0.0 54.1	0.0 0.0 54.1 0.0 54.1	0	0	0	N/A
Jan 09 04:34	TLR 5A	NEXT	2-NH 6-NN 7-F Total	6 / 0 10 / 0 40 / 0 56 / 0	77 1168 621 1866	7.8 71.8 45.4 125.1	77 1168 621 1866	7.8 71.8 45.4 125.1	0 0 0 0	0.0 0.0 0.0 0.0	AECI MPS Total	24.0 13.0 37.0	24.0 13.0 37.0	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP	0.0 0.0 55.8 0.0 55.8	0.0 0.0 55.8 0.0 55.8	0	0	0	N/A
Jan 09 05:29	TLR 3A	NEXT	2-NH 6-NN Total	8 / 0 8 / 0 16 / 0	266 387 653	19.0 25.0 44.1	266 387 653	19.0 25.0 44.1	0 0 0	0.0 0.0 0.0	NONE			ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A

Jan 09 06:22	TLR 5B	CURRENT	7-F Total	37 / 0 37 / 0	209 209	15.8 15.8	209 209	15.8 15.8	0 0	0.0 0.0	AECI MPS Total	13.0 8.0 21.0	13.0 8.0 21.0	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 38.9	0.0 0.0 38.9	0	0	0	N/A
		NEXT	2-NH 6-NN 7-F Total	6 / 0 7 / 0 33 / 0 46 / 0	63 188 227 209	7.7 13.7 16.8 38.1	63 188 227 478	7.7 13.7 16.8 38.1	0 0 0 0	0.0 0.0 0.0 0.0	NONE		NONE								
Jan 09 07:41	TLR 3A	NEXT	2-NH 3-ND 6-NN Total	7 / 1 2 / 0 7 / 0 16 / 1	197 300 175 672	14.8 18.6 11.7 45.1	197 300 175 672	14.8 18.6 11.7 45.1	36 0 0 36	2.4 0.0 0.0 2.4	NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	
Jan 09 08:32	TLR 3A	NEXT	2-NH 6-NN Total	5 / 0 7 / 0 12 / 0	64 187 251	7.8 13.7 21.5	64 187 251	7.8 13.7 21.5	0 0 0	0.0 0.0 0.0	NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	
Jan 09 09:30	TLR 3A	NEXT	2-NH 6-NN Total	5 / 0 6 / 0 11 / 0	64 186 250	7.8 13.0 20.8	64 186 250	7.8 13.0 20.8	0 0 0	0.0 0.0 0.0	NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	
Jan 09 10:33	TLR 3A	NEXT	2-NH 6-NN Total	6 / 0 7 / 0 13 / 0	120 80 200	12.1 6.6 18.7	120 80 200	12.1 6.6 18.7	0 0 0	0.0 0.0 0.0	NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	
Jan 09 11:37	TLR 3A	NEXT	2-NH Total	5 / 0 5 / 0	30 30	3.7 3.7	30 30	3.7 3.7	0 0	0.0 0.0	NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	
Jan 09 12:29	TLR 3A	NEXT	NONE								NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	
Jan 09 13:28	TLR 3A	NEXT	NONE								NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	
Jan 09 14:26	TLR 3A	NEXT	NONE								NONE		ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0	0	0	N/A	

Jan 09 15:29	TLR 1	CURRENT	NONE	NONE	NONE	0	0	0	N/A
Jan 09 18:16	TLR 0	CURRENT	NONE	NONE	NONE	69	105	251	Terminate TLR

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	187	5798	5748	663
3	15	1750	1750	0
4	0	0	0	0
5	0	0	0	0
6	194	9655	9355	0
7	297	2488	2175	0
<b>Total</b>	<b>693</b>	<b>19691</b>	<b>19028</b>	<b>663</b>

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
AECI	82.0	91.0
MPS	48.0	54.0
<b>Total</b>	<b>130.0</b>	<b>145.0</b>

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	38.0	38.0
	FIRM-7	176.8	176.8
<b>Total for SWPP</b>		<b>214.8</b>	<b>214.8</b>
<b>Total</b>		<b>214.8</b>	<b>214.8</b>

01/09/2008 18:20:51 (CST)

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