

ICTE TLR 5 Investigation Report
Flowgate 1326
(Mabelvale - Sheridan for the loss of White Bluff - Sheridan)
TLR Level 5: May 19, 2011
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 1326 on May 19, 2011. Flowgate 1326 is an Entergy flowgate. The TLR 5 was in effect from 12:35 AM until 4:27 AM on May 19, 2011. Projected post-contingent flows on the Mabelvale - Sheridan for the loss of White Bluff - Sheridan 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 867 MVA. Flow on the Contingent Element was 769 MVA. The LODF was approximately 85%. Post-contingent flow on the Limiting Element was approximately 1519 MVA.

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

TLRs levels, timing and relief requested amounts are shown on pages 4 and 5.

4. Transmission and generation outages or changes from prediction that may have contributed.

- There was an unplanned outage on the ICTE system associated with this flowgate.
- There were no abnormal load changes.
- There was 0 mw of non-firm service impacting the flowgate day of since the RC was in a TLR 5 event.

Generation North of the constraint has an average decrement generator shift factor of -20%. Generation South of the constraint has an average increment generator shift factor of 40%. Due to economics and regulation reasons generation south of the constraint was for the most part operating at or near minimum, while units north of the constraint for the most part were operating at or near pmax. There was also an unplanned outage on the Keo-West Memphis 500 kv line that impacted this flowgate.

5. Procedures implemented prior to hold/curtailment.

There were not enough non-firm transactions with greater than 5% TDF available for curtailment to alleviate the flowgate. The system was not re-dispatched to prevent curtailment of firm service. The ICT RC verifies with Entergy's Shift Supervisor before a TLR 5 event is called if there are any re-dispatch options available. The Entergy Shift Supervisor to-date has not offered any re-dispatch solutions to prevent a TLR 5 event.

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.

TFC of MABSH_WBSH
1732

AFC Initialization Summary Report		Average Firm AFC available on MABSH_WBSH (MW)
Timestamp		
Prior to Day Ahead	5/16/2011 18:44, 5/17/2011 18:44	701
Day Ahead	5/17/2011 11:14, 5/18/2011 11:00	731
Difference		30

AFC Initialization Summary Report		Ave. of impact of firm reservations and rtcalc baseflow on MABSH_WBSH (MW)
Timestamp		
Prior to Day Ahead	5/16/2011 18:44, 5/17/2011 18:44	1031
Day Ahead	5/17/2011 11:14, 5/18/2011 11:00	1001
Difference		-30

		AFC available on MABSH_WBSH (MW)																																				
		05/18												05/19																								
AFC Initialization Summary Report Timestamp (CST)		RBO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	RBO	1	2	3	4	5	6	7	8	9	10	11	
Prior to Day Ahead	5/16/11 18:44	249	249	249	249	249	12	704	768	802	802	789	770	801	818	826	844	841	896	785	785	776	695	695	711	711	711	711	711	711	626	660	649	747	784	778		
Day Ahead	5/17/11 11:14	657	705	858	858	863	897	624	616	675	708	698	681	716	730	741	749	747	740	679	705	693	699	679	640	822	919	954	885	601	610	627	611	704	745	739		
Prior to Day Ahead	5/17/11 18:44																								669	786	976	1012	983	730	679	700	693	799	759	759		
Operating Horizon	5/18/11 12:3		612	735	558	965	432	389	341	385	512	559	801	780	780	780	743	743	687	675	675	655	658	300	230													
Operating Horizon	5/18/11 3:00			419	711	711	238	218	282	437	469	739	712	712	575	575	637	627	585	571	602	551	222	89														
Operating Horizon	5/18/11 3:43			419	711	711	238	218	282	437	469	739	712	712	575	575	637	627	585	571	602	551	222	89														
Operating Horizon	5/18/11 4:18			598	558	598	205	270	438	477	716	695	512	548	540	619	618	575	557	589	539	209	71															
Operating Horizon	5/18/11 5:18			598	558	598	274	430	479	730	700	518	555	596	395	624	624	565	565	565	565	216	75															
Operating Horizon	5/18/11 7:00			590	564	574	538	751	770	770	645	654	734	734	681	681	673	673	673	673	283	288																
Operating Horizon	5/18/11 7:17			691	646	834	855	800	819	665	709	715	715	715	741	741	729	664	340	211																		
Operating Horizon	5/18/11 8:17			677	820	500	718	897	589	700	705	705	705	705	728	699	689	671	308	213																		
Operating Horizon	5/18/11 9:18			677	812	1099	681	599	700	700	776	755	708	676	701	667	385	208																				
Day Ahead	5/18/11 11:00																								898	744	958	974	931	888	644	649	639	747	777	790		
Operating Horizon	5/18/11 11:00																																					
Operating Horizon	5/18/11 11:15																																					
Operating Horizon	5/18/11 12:36																																					
Operating Horizon	5/18/11 13:31																																					
Operating Horizon	5/18/11 13:36																																					
Operating Horizon	5/18/11 14:55																																					
Operating Horizon	5/18/11 14:59																																					
Operating Horizon	5/18/11 16:20																																					
Operating Horizon	5/18/11 16:33																																					
Operating Horizon	5/18/11 17:27																																					
Operating Horizon	5/18/11 18:54																																					
Operating Horizon	5/18/11 19:25																																					
Operating Horizon	5/18/11 20:46																																					
Operating Horizon	5/18/11 21:23																																					
Operating Horizon	5/18/11 22:23																																					
Operating Horizon	5/18/11 22:32																																					
Operating Horizon	5/19/11 0:22																																					
Operating Horizon	5/19/11 2:23																																					
Operating Horizon	5/19/11 3:23																																					
Operating Horizon	5/19/11 5:43																																					
Operating Horizon	5/19/11 4:20																																					
Operating Horizon	5/19/11 5:21																																					
Operating Horizon	5/19/11 7:17																																					
Operating Horizon	5/19/11 7:22																																					
Operating Horizon	5/19/11 8:19																																					
Operating Horizon	5/19/11 9:17																																					
Operating Horizon	5/19/11 11:12																																					
Operating Horizon	5/19/11 11:17																																					

Indicates I LR Avoidance (Non-sale of Non-Firm)

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

This TLR was caused by a combination of an unplanned outage, 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 378 MW of NNL, SME had 11 MW of NNL, SPA had 1 MW of NNL.

Event History

Issuing RC: ICTE
Flowgate: 1326 - Mabelvale-Sheridan for loss of WhiteBluff-Sheridan
Event Begin: 2011-05-18 23:45
Event End: 2011-05-19 11:00
Event Duration: 12 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 5B	05/18/2011 23:45	05/18/2011 23:38	05/18/2011 23:34:10	200.0	0.0	205.4	62	255
TLR Level 5A	05/19/2011 01:00	05/19/2011 00:38	05/19/2011 00:35:10	158.0	0.0	268.6	70	763
TLR Level 5A	05/19/2011 02:00	05/19/2011 01:32	05/19/2011 01:29:02	203.0	0.0	281.7	72	830
TLR Level 5A	05/19/2011 03:00	05/19/2011 02:28	05/19/2011 02:27:03	197.0	0.0	279.1	73	820
TLR Level 5A	05/19/2011 04:00	05/19/2011 03:30	05/19/2011 03:26:15	146.0	0.0	220.2	72	707
TLR Level 5A	05/19/2011 05:00	05/19/2011 04:29	05/19/2011 04:27:05	38.0	0.0	103.4	36	486
TLR Level 1	05/19/2011 06:00	05/19/2011 05:26	05/19/2011 05:26:25	0.0	0.0	0.0	0	0
TLR Level 0	05/19/2011 11:00	05/19/2011 10:16	05/19/2011 10:16:19	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: ICTE_1326_20110518_2245.htm

Incident: ICTE_1326_20110518_2245	Date: 05/18/2011	Reliability Coordinator: ICTE
Initial Conditions: N/A		
Flowgate: 1326 - Mabelvale-Sheridan for loss of...	Rating: 1732	LODF: 84.54%
TLR Direction: Normal		
Effective StartTime: 05/18/2011 23:45	Effective EndTime: 05/19/2011 11:00	TLR Duration: 11 Hours and 15 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule				NNL Relief			Market Relief				Flow			TLR Action Comments			
				Total Tags Cut / Hold	IDC Cut MW	RC Cut Acknowledge MW	Hold MW	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.	Cont. Flow				
May 18 23:38	TLR 5B	CURRENT	7-F	62 / 0	255	62.1	255	62.1	0	0.0	EES	103.0	103.0	ED-2	SWPP	0.0	0.0	970	1913	1116	N/A
			Total	62 / 0	255	62.1	255	62.1	0	0.0	SME	2.0	2.0	ED-6	SWPP	0.0	0.0				
May 19 00:38	TLR 5A	NEXT	2-NH	2 / 0	203	55.1	203	55.1	0	0.0	NONE			NONE			867	1517	769	N/A	
			6-NN	3 / 0	155	19.2	155	19.2	0	0.0	EES	70.0	70.0	ED-2	SWPP	0.0					0.0
May 19 01:32	TLR 5A	NEXT	7-F	20 / 0	80	25.2	80	25.2	0	0.0	NONE			NONE			903	1616	844	N/A	
			Total	68 / 0	434	77.4	434	77.4	0	0.0	EES	74.0	74.0	ED-2	SWPP	0.0					0.0
May 19 02:28	TLR 5A	NEXT	2-NH	7 / 0	104	13.2	104	13.2	0	0.0	NONE			NONE			882	1618	871	N/A	
			6-NN	3 / 0	150	19.9	150	19.9	0	0.0	EES	68.0	68.0	ED-2	SWPP	0.0					0.0
May 19 03:30	TLR 5A	NEXT	7-F	61 / 0	285	78.0	285	78.0	0	0.0	NONE			NONE			888	1504	732	N/A	
			Total	72 / 0	501	78.3	501	78.3	0	0.0	EES	60.0	60.0	ED-2	SWPP	0.0					0.0
May 19 04:29	TLR 5A	NEXT	1-NS	1 / 0	50	2.8	50	2.8	0	0.0	NONE			NONE			946	1412	550	N/A	
			2-NH	7 / 0	104	13.5	104	13.5	0	0.0	EES	5.0	5.0	ED-2	SWPP	0.0					0.0
			6-NN	3 / 0	150	19.2	150	19.2	0	0.0	NONE			NONE							
			7-F	28 / 0	27	5.6	27	5.6	0	0.0	EES	5.0	5.0	ED-2	SWPP	0.0					0.0
Total	36 / 0	280	38.4	280	38.4	0	0.0														

May 19 05/28	TLR 1	CURRENT	NONE	NONE	NONE	834	1408	630	N/A
May 19 10/16	TLR 0	CURRENT	NONE	NONE	NONE	550	1280	828	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	1	50	50	0
2	30	670	670	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	15	758	758	0
7	349	1233	1233	0
Total	395	2709	2709	0

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	378.0	378.0
SME	6.0	11.0
SPA	1.0	1.0
Total	385.0	390.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWFP	ED-2	0.0	0.0
	ED-6	0.0	0.0
	FIRM-7	161.1	161.1
Total for SWFP		161.1	161.1
Total		161.1	161.1

Date	Time	Category	Issue
05/18/11	2304	ICP/LAP Assessment	Assessed as ICP PC109%
			No redispatch option - per EES
05/18/11	2326	TLR - Redispatch Question	No Conditional firm schedules per EES
05/18/11	2326	TLR - 5b Initial	
05/18/11	2345	TA Notification	Called ICT TA to suspend AFC on FG1326 from 0000 - 0600hrs
05/18/11	2350	No Internal NonFirm Tags	
05/19/11	0035	TLR - 5a Reissue	Reissue PC 87% OASIS Ref425428
05/19/11	0046	No Internal NonFirm Tags	
05/19/11	0129	TLR - 5a Reissue	Reissue PC93%
05/19/11	0133	No Internal NonFirm Tags	
05/19/11	0227	TLR - 5a Reissue	Reissue PC93%
05/19/11	0231	No Internal NonFirm Tags	
05/19/11	0326	TLR - 5a Reissue	
05/19/11	0335	No Internal NonFirm Tags	
05/19/11	0427	TLR - 5a Reissue	
05/19/11	0437	No Internal NonFirm Tags	
05/19/11	1017	TLR - 0	PC 73%,updated REF#425428

