

**SPP TLR 5 Investigation Report
Flowgate 5203
(Hugo Power Plant – Valliant 138kV for loss of Pittsburg – Valliant 345kV)
(HPPVALPITVAL)
TLR Level 5: November 5, 2008
Report Issued: December 5, 2008**

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

This report is submitted in accordance with the NERC Transmission Loading Relief Investigation Procedure for the Level 5 TLR event that occurred on Flowgate 5203 on November 5, 2008. Flowgate 5203 is an SPP flowgate. The Level 5 TLR was in effect from 15:00 until 18:00 CST on November 5, 2008. Projected post-contingent flows on the Hugo Power Plant – Valliant 138kV line exceeded the SOL. The monitored element on this flowgate has a dynamic temperature dependent rating. TLR is issued dependent on this dynamic rating.

2. Facility/flowgate limitations and flows at the time the TLR was initiated.

At the time the Level 5A TLR was issued, the Limiting Element was rated at 315 MVA. Flow on the Limiting Element was 170 MVA. Flow on the Contingent Element was 488 MVA. The LODF was approximately 26%. Post-contingent flow on the Limiting Element was approximately 298 MVA.

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

TLRs levels, timing and relief requested amounts are shown in the Event History and NERC TLR Log on pages 3-6.

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

There were no unplanned outages that contributed to this TLR.

5. Procedures implemented prior to hold/curtailment.

There were no non-firm transactions impacting the flowgate by more than 5%. The TLR was escalated to a Level 5 in order to initiate redispatch of firm market flow.

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 SPP Reliability Coordinators logged information describing the actions taken at each issuance of the TLR, see page 7. Times in the RC Log are CST.

9. Flowgate limitations as identified by security analysis processes conducted by the Reliability Authority for the day prior to the TLR event.

The next day study process did not indicate an issue with this flowgate based upon conditions at the time of the daily peak.

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 SPP Reliability Coordinator was monitoring their state estimator, RTCA and RTLODF applications for current flowgate loading and other potential issues during this time. eDNA data historian recorded all line flows before, during and after the Level 5 TLR event, see page 8.

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

SPP Tariff Administration grants transmission service using an AFC process. This process evaluates each transmission request on a case by case basis. SPP Tariff Administration was not granting any transmission requests that impacted the congested flowgate by 3 % or greater at the time of the Level 5 TLR.

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

This TLR was caused by a combination of generation patterns, load, and system flows. The interface between southeastern Oklahoma and northeastern Texas/southwestern Arkansas has been a trouble spot for several years. Transmission additions planned for 2010 should improve loading conditions on this interface.

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 are archived in the IDC. These screen shots have not been included to reduce the size of this report.

14. Re-dispatch actions taken.

SPP EIS Market redispatch was implemented during the entire TLR event. Firm and non-firm Market Flow were reduced on the flowgate as reported in the TLR Event History and NERC TLR Log on pages 3-6.

TLR Event History 5203 - HppValPitVal

Status	TLR Level	TLR Date (CST)	TLR Confirm Time (CST)	Run Time (CST)	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
								Tags	MW
SUPERSEDED	3A	11/05/2008 08:15	11/05/2008 07:58	11/05/2008 07:57:39	0.0	0.0	0.0	0	0
SUPERSEDED	3A	11/05/2008 09:00	11/05/2008 08:30	11/05/2008 08:30:32	0.0	0.0	0.0	0	0
SUPERSEDED	3A	11/05/2008 10:00	11/05/2008 09:31	11/05/2008 09:30:42	0.0	0.0	11.5	1	103
SUPERSEDED	3A	11/05/2008 11:00	11/05/2008 10:30	11/05/2008 10:30:18	0.0	0.0	11.3	1	103
SUPERSEDED	3A	11/05/2008 12:00	11/05/2008 11:30	11/05/2008 11:30:22	0.0	0.0	0.0	0	0
SUPERSEDED	3A	11/05/2008 13:00	11/05/2008 12:36	11/05/2008 12:36:13	11.0	11.0	0.0	0	0
SUPERSEDED	3A	11/05/2008 14:00	11/05/2008 13:29	11/05/2008 13:28:46	0.0	0.0	0.0	0	0
SUPERSEDED	5A	11/05/2008 15:00	11/05/2008 14:37	11/05/2008 14:37:01	0.0	0.0	20.0	0	0
SUPERSEDED	5A	11/05/2008 16:00	11/05/2008 15:30	11/05/2008 15:29:22	0.0	0.0	12.0	0	0
SUPERSEDED	5A	11/05/2008 17:00	11/05/2008 16:30	11/05/2008 16:29:52	0.0	0.0	23.0	0	0
SUPERSEDED	3A	11/05/2008 18:00	11/05/2008 17:29	11/05/2008 17:28:52	27.0	0.0	27.0	0	0
SUPERSEDED	3A	11/05/2008 19:00	11/05/2008 18:27	11/05/2008 18:27:13	16.0	0.0	16.0	0	0
SUPERSEDED	3A	11/05/2008 20:00	11/05/2008 19:27	11/05/2008 19:27:20	9.0	9.0	0.0	0	0
SUPERSEDED	3A	11/05/2008 21:00	11/05/2008 20:29	11/05/2008 20:28:34	0.0	0.0	0.0	0	0
SUPERSEDED	3A	11/05/2008 22:00	11/05/2008 21:29	11/05/2008 21:28:49	0.0	0.0	0.0	0	0
TERMINATED	0	11/05/2008 22:45	11/05/2008 22:33	11/05/2008 22:33:02	0.0	0.0	0.0	0	0

12/05/2008 09:57:53 (CST)

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Nov 05 16:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 23.0 0.0 0.0 23.0	0.0 23.0 0.0 0.0 23.0	171	289	452	feasibility
Nov 05 17:29	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 27.0 0.0 27.0	0.0 27.0 0.0 27.0	187	282	364	N/A
Nov 05 18:27	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 16.0 0.0 16.0	0.0 16.0 0.0 16.0	173	298	479	N/A
Nov 05 19:27	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	165	302	525	N/A
Nov 05 20:29	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	152	307	593	N/A
Nov 05 21:29	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	173	302	493	N/A
Nov 05 22:33	TLR 0	CURRENT	NONE	NONE	NONE				148	228	307	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	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
Total	0	0	0	0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	98.0	98.0
	FIRM-7	2.0	2.0
Total for SWPP		98.0	98.0
Total		98.0	98.0

12/05/2008 10:00:38 (CST)

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	A	B	C	D
1	Reliability Log for November, 5			2008
2	Time	Initials	Comments	
3				
7	0028	LRG	Issued TLR Level 0 on HppValPitVal Flgt. 5203	
37	0730	RGH	CSWS reports Welsh 2 coming off line due to tube leak	
41	0757	RGH	Issued TLR level 3A on HppValPitVal #5203	
46	0830	RGH	Issued TLR level 3A on HppValPitVal #5203	
47	0831	RGH	CSWS reports there is a static loose and laying across a x-arm on the Pittsburg - Valliant 345kv line	
48	0901	RGH	CSWS submitted RSS event #2637 flo WELSH2, 528mw, NAR	
52	0930	RGH	Issued TLR level 3A on HppValPitVal #5203	
56	1030	RGH	Issued TLR level 3A on HppValPitVal #5203	
60	1130	RGH	Issued TLR level 3A on HppValPitVal #5203	
65	1236	RGH	Issued TLR level 3A on HppValPitVal #5203	
69	1328	RGH	Issued TLR level 3A on HppValPitVal #5203	
74	1437	RGH	Issued TLR level 5A on HppValPitVal #5203 for feasibility	
78	1529	RGH	Issued TLR level 5A on HppValPitVal #5203 for feasibility	
81	1629	RGH	Issued TLR level 5A on HppValPitVal #5203 for feasibility	
85	1728	RGH	Issued TLR level 3A on HppValPitVal #5203	
88	1827	LRG	Issued TLR level 3A on HppValPitVal #5203	
94	1927	LRG	Issued TLR level 3A on HppValPitVal #5203	
98	2028	LRG	Issued TLR level 3A on HppValPitVal #5203	
104	2128	LRG	Issued TLR level 3A on HppValPitVal #5203	
112	2233	LRG	Issued TLR level 0 on HppValPitVal #5203	
116				

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