

SPP TLR 5 Investigation Report
Flowgate 5263
(Cocodrie -Caughlin 230/138 kV ftlo Cocodrie - Vil Platte 230 kV)
(COCCOUCOCVIL)
TLR Level 5: April 26, 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 Level 5 TLR event that occurred on Flowgate 5263 on April 26, 2011. Flowgate 5263 is an SPP flowgate. The Level 5 TLR was in effect from 16:00 until 16:20 CST on April 26, 2011. Projected post-contingent flows on the Cocodrie -Caughlin 230/138 kV ftlo Cocodrie - Vil Platte 230 kV line exceeded the SOL.

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 425 MVA. Flow on the Limiting Element was 453 MVA. Flow on the Contingent Element was 708 MVA. The LODF was approximately 60.2%. Post-contingent flow on the Limiting Element was approximately 425 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..

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

There were no unplanned outages. There was a maintenance outage for Acadia generation and high loading in the area.

5. Procedures implemented prior to hold/curtailment.

Curtailed non-firm transactions. Next hour flows predicted that not enough non-firm could be curtailed to alleviate loading on 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 SPP Reliability Coordinators logged information describing the actions taken at each issuance of the TLR. Times in the RC Log are CDT.

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 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.

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 high loading. 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 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. CLEC had 36 MW of NNL.

Event History

Issuing RC: SWPP
Flowgate: 5263 - COCCOUCOCVIL
Event Begin: 2011-04-26 13:00
Event End: 2011-04-27 00:25
Event Duration: 11 Hours

TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
							Tags	MW
TLR Level 3A	04/26/2011 13:00	04/26/2011 12:40	04/26/2011 12:40:24	28.0	8.4	19.6	1	50
TLR Level 3A	04/26/2011 14:00	04/26/2011 13:30	04/26/2011 13:29:57	23.0	9.0	14.0	0	0
TLR Level 3A	04/26/2011 15:00	04/26/2011 14:27	04/26/2011 14:26:38	16.0	2.0	14.0	0	0
TLR Level 5A	04/26/2011 16:00	04/26/2011 15:42	04/26/2011 15:40:39	56.0	0.0	56.4	5	37
TLR Level 1	04/26/2011 16:20	04/26/2011 16:09	04/26/2011 16:09:07	0.0	0.0	0.0	0	0
TLR Level 0	04/27/2011 00:25	04/27/2011 00:16	04/27/2011 00:15:33	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_5263_20110426_1200.htm

Incident: SWPP_5263_20110426_1200	Date: 04/26/2011	Reliability Coordinator: SWPP
Initial Conditions: N/A		
Flowgate: 5263 - COCCOUCOCVIL	Rating: 425	LODF: 60.19%
TLR Direction: Normal		
Effective StartTime: 04/26/2011 13:00	Effective EndTime: 04/27/2011 00:25	TLR Duration: 11 Hours and 25 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			
Apr 26 12:40	TLR 3A	NEXT	2-NH Total	1 / 0	50	5.6	50	5.6	0	0.0	NONE	ED-2 ED-5 FIRM-7 Total	SWPP SWPP SWPP	0.0 10.0 4.0	0.0 10.0 4.0	425	660	425	N/A	
Apr 26 13:30	TLR 3A	NEXT				NONE				NONE	ED-2 ED-5 FIRM-7 Total	SWPP SWPP SWPP	0.0 9.0 5.0	0.0 9.0 5.0	439	694	425	N/A		
Apr 26 14:27	TLR 3A	NEXT	7-F Total	0 / 1	0	0.0	0	0.0	9	1.6	NONE	ED-2 ED-5 FIRM-7 Total	SWPP SWPP SWPP	0.0 9.0 5.0	0.0 9.0 5.0	440	695	425	N/A	
Apr 26 15:42	TLR 5A	NEXT	7-F Total	5 / 0	37	6.9	37	6.9	0	0.0	CLEC Total	36.0 36.0	ED-2 ED-5 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 14.0 0.0 0.0	0.0 14.0 0.0 0.0	453	708	425	N/A
Apr 26 16:09	TLR 1	CURRENT				NONE				NONE		NONE				448	703	425	N/A	
Apr 27 00:16	TLR 0	CURRENT				NONE				NONE		NONE				184	345	288	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	1	50	50	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	5	37	37	9
Total	6	87	87	9

TLR>NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
CLEC	36.0	36.0
Total	36.0	36.0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	42.0	42.0
	FIRM-7	14.0	14.0
Total for SWPP		56.0	56.0
Total		56.0	56.0

Date	Time	Category
4/25/11	1506	TLR - 3b Initial
4/25/11	1632	TLR - 3a Reissue
4/25/11	1754	TLR - 0