

**SPP TLR 5 Investigation Report
Flowgate 6009
(COOPER_S)
TLR Level 5: March 17, 2010
Report Issued: March 31, 2010**

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 6009 on March 17, 2010. Flowgate 6009 is an SPP flowgate. This flowgate is used to monitor and control loading on several facilities in the area. The Level 5 TLR was in effect from 00:05 until 6:00 CST on March 17, 2010. Projected flows on the Cooper South interface 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 580 MVA due to the outage of the St. Joe – Cooper 345 kV line. Flow on the Cooper South interface was 610 MW. The flowgate had an IROL of 660 MVA during the outage.

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

TLR levels, timing and relief requested amounts are shown in the Event History and NERC TLR Log on pages 3-9.

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 not enough non-firm transactions and market flows to provide the necessary relief on the flowgate. The TLR was escalated to a Level 5 in order to curtail firm transactions and firm market flow to relieve loading.

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 10. 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.

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 11.

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 North to South loading on the transmission system during the temporary outage of the St. Joe – Cooper 345 kV line. High external impacts made it difficult to control loading. SPP and MISO have initiated an effort to more effectively predict and control loading on the Cooper South 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 3-9.

TLR Event History 6009 - COOPER_S

Status	TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
								Tags	MW
SUPERSEDED	1	03/16/2010 21:40	03/16/2010 21:29	03/16/2010 21:28:55	0.0	0.0	0.0	0	0
SUPERSEDED	3B	03/16/2010 21:55	03/16/2010 21:46	03/16/2010 21:46:06	0.0	0.0	0.0	0	0
SUPERSEDED	3B	03/16/2010 22:25	03/16/2010 22:14	03/16/2010 22:14:07	50.0	0.0	50.1	6	140
SUPERSEDED	3B	03/16/2010 22:35	03/16/2010 22:22	03/16/2010 22:22:25	150.0	0.0	150.1	3	280
SUPERSEDED	3A	03/16/2010 23:00	03/16/2010 22:30	03/16/2010 22:30:02	250.0	0.0	250.1	14	1095
SUPERSEDED	3A	03/17/2010 00:00	03/16/2010 23:28	03/16/2010 23:28:30	326.0	31.1	294.9	15	1166
SUPERSEDED	5A	03/17/2010 00:05	03/16/2010 23:49	03/16/2010 23:48:37	716.0	0.0	720.6	87	1991
SUPERSEDED	5A	03/17/2010 00:10	03/16/2010 23:53	03/16/2010 23:53:03	308.0	0.0	311.8	62	1252
SUPERSEDED	5B	03/17/2010 00:45	03/17/2010 00:33	03/17/2010 00:31:44	0.0	0.0	28.0	0	0
SUPERSEDED	5A	03/17/2010 02:00	03/17/2010 01:31	03/17/2010 01:29:52	400.0	0.0	406.2	86	1431
SUPERSEDED	5A	03/17/2010 03:00	03/17/2010 02:32	03/17/2010 02:31:44	310.0	0.0	312.9	58	1303
SUPERSEDED	5A	03/17/2010 04:00	03/17/2010 03:29	03/17/2010 03:28:06	300.0	0.0	352.2	19	1695
SUPERSEDED	5A	03/17/2010 05:00	03/17/2010 04:30	03/17/2010 04:29:52	280.0	0.0	301.8	11	1345
SUPERSEDED	3A	03/17/2010 06:00	03/17/2010 05:31	03/17/2010 05:27:26	74.0	0.0	82.1	8	650
SUPERSEDED	3A	03/17/2010 07:00	03/17/2010 06:31	03/17/2010 06:27:27	36.0	0.0	66.0	5	500
SUPERSEDED	3A	03/17/2010 08:00	03/17/2010 07:30	03/17/2010 07:28:08	37.0	0.0	83.6	7	655
SUPERSEDED	3A	03/17/2010 09:00	03/17/2010 08:30	03/17/2010 08:29:56	20.0	0.0	76.2	6	606
SUPERSEDED	3A	03/17/2010 10:00	03/17/2010 09:26	03/17/2010 09:25:50	0.0	0.0	80.2	6	635
SUPERSEDED	3A	03/17/2010 11:00	03/17/2010 10:28	03/17/2010 10:27:53	45.0	0.0	81.0	8	645
TERMINATED	0	03/17/2010 11:25	03/17/2010 11:14	03/17/2010 11:13:39	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_6009_20100316_2140.htm

Incident:	SWPP_6009_20100316_2140	Date: 03/16/2010 (CST)	Reliability Coordinator: SWPP
Initial Conditions:	Increased Flows		
Flowgate:	6009 - COOPER_S	Rating: 580	LODF: N/A
TLR Direction:	Normal		
Effective StartTime:	03/16/2010 21:40 (CST)	Effective EndTime: 03/17/2010 11:25 (CST)	TLR Duration: 13 Hours and 45 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule						NNL Relief			Market Relief				Flow			TLR Action Comments	
				Total Tags Cut / Hold	IDC Cut		RC Cut Acknowledge		Hold		CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW	Current	Post Cont.		Cont. Flow
					MW	Relief	MW	Relief	MW	Relief											
Mar 16 21:29 (CST)	TLR 1	CURRENT		NONE						NONE			NONE				558	N/A	N/A	N/A	
Mar 16 21:48 (CST)	TLR 3B	CURRENT		NONE						NONE			ED-2	MISO	0.0	0.0	626	N/A	N/A	N/A	
				NONE						NONE			ED-2	MISO	0.0	0.0					
				NONE						NONE			ED-6	MISO	0.0	0.0					
				NONE						NONE			FIRM-7	MISO	0.0	0.0					
				NONE						NONE			FIRM-7	PJM	0.0	0.0					
				NONE						NONE			FIRM-7	PJM	0.0	0.0					
				NONE						NONE			FIRM-7	SWPP	0.0	0.0					
				NONE						NONE			Total		0.0	0.0					
		NEXT	2-NH	1 / 0	3	0.9	3	0.9	0	0.0	NONE			ED-2	MISO	0.0	0.0				
			Total	1 / 0	0	0.9	3	0.9	0	0.0	NONE			ED-2	PJM	0.0	0.0				
											NONE			ED-6	SWPP	1.1	1.1				
											NONE			ED-6	MISO	0.0	0.0				
											NONE			ED-6	PJM	0.0	0.0				
											NONE			ED-6	SWPP	0.0	0.0				
											NONE			FIRM-7	MISO	0.0	0.0				
											NONE			FIRM-7	PJM	0.0	0.0				
											NONE			FIRM-7	SWPP	0.0	0.0				
											NONE			Total		1.1	1.1				
Mar 16 22:14 (CST)	TLR 3B	CURRENT	2-NH	1 / 0	47	13.6	47	13.6	0	0.0	NONE			ED-2	MISO	0.0	0.0	633	N/A	N/A	N/A
			5-NM	2 / 0	45	4.3	45	4.3	0	0.0	NONE			ED-2	PJM	0.0	0.0				
			6-NN	3 / 0	48	6.0	48	6.0	0	0.0	NONE			ED-2	SWPP	30.4	30.4				
			Total	6 / 0	140	23.9	140	23.9	0	0.0	NONE			ED-6	MISO	0.0	0.0				
											NONE			ED-6	PJM	0.0	0.0				
											NONE			ED-6	SWPP	0.0	0.0				
											NONE			FIRM-7	MISO	0.0	0.0				
											NONE			FIRM-7	PJM	0.0	0.0				
											NONE			FIRM-7	SWPP	0.0	0.0				
											NONE			Total		30.4	30.4				
		NEXT		NONE						NONE			NONE								

Mar 16 22:22 (CST)	TLR 3B	CURRENT	6-NN Total	3 / 0 3 / 0	280 280	34.7 34.7	280 280	34.7 34.7	0 0	0.0 0.0	NONE	ED-2	MISO PJM SWPP	0.0 0.0 115.4	0.0 0.0 115.4	636	N/A	N/A	N/A
		NEXT	1-NS 2-NH 5-NM 6-NN Total	2 / 0 4 / 0 1 / 0 2 / 0 9 / 0	80 227 27 250 280	13.9 54.6 2.5 32.1 103.1	80 102 0 250 412	13.9 18.5 0.0 32.1 64.5	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	NONE	ED-2	MISO PJM SWPP	0.0 0.0 110.0	0.0 0.0 0.0				
												Total	MISO PJM SWPP	115.4 0.0 0.0	115.4 0.0 0.0				
												Total	MISO PJM SWPP	120.0 10.0 0.0	0.0 0.0 0.0				
Mar 16 22:30 (CST)	TLR 3A	NEXT	1-NS 2-NH 5-NM 6-NN Total	2 / 0 4 / 0 1 / 0 1 / 0 8 / 0	80 227 27 149 463	13.8 54.6 2.5 19.7 90.6	80 227 27 149 463	13.8 54.6 2.5 19.7 90.6	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	NONE	ED-2	MISO PJM SWPP	0.0 0.0 87.7	0.0 0.0 87.7	585	N/A	N/A	N/A
												Total	MISO PJM SWPP	87.7 0.0 0.0	87.7 0.0 0.0				
Mar 16 23:28 (CST)	TLR 3A	NEXT	1-NS 2-NH 5-NM 6-NN Total	2 / 0 4 / 0 1 / 0 2 / 0 9 / 0	80 227 22 225 534	13.9 54.9 1.9 28.9 99.7	80 227 22 225 534	13.9 54.9 1.9 28.9 99.7	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	NONE	ED-2	MISO PJM SWPP	0.0 0.0 118.0	0.0 0.0 118.0	561	N/A	N/A	N/A
												Total	MISO PJM SWPP	123.0 5.0 0.0	123.0 5.0 0.0				
Mar 16 23:49 (CST)	TLR 5A	NEXT	1-NS 2-NH 5-NM 6-NN 7-F Total	2 / 0 4 / 0 1 / 0 2 / 0 72 / 0 81 / 0	80 227 22 225 825 1359	13.8 54.3 2.0 28.2 166.5 264.9	80 227 22 225 825 1359	13.8 54.3 2.0 28.2 166.5 264.9	0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0	NONE	ED-2	MISO PJM SWPP	0.0 0.0 109.0	0.0 0.0 109.0	610	N/A	N/A	N/A
												Total	MISO PJM SWPP	385.2 89.6 183.6	385.1 89.6 183.6				
												Total	MISO PJM SWPP	385.2 2.9 0.0	385.1 2.9 0.0				

Mar 16 23:53 (CST)	TLR 5A	NEXT	1-NS	2 / 0	80	13.8	80	13.8	0	0.0	NONE	ED-2	MISO	0.0	0.0	607	N/A	N/A	N/A	
			2-NH	4 / 0	227	54.3	227	54.3	0	0.0			PJM	0.0	0.0					
			5-NM	1 / 0	22	2.0	22	2.0	0	0.0			SWPP	109.0	109.0					
			6-NN	2 / 0	225	28.2	225	28.2	0	0.0			MISO	0.0	0.0					
			7-F	47 / 0	88	14.5	88	14.5	0	0.0			PJM	0.0	0.0					
			Total	56 / 0	620	112.9	620	112.9	0	0.0			SWPP	8.2	8.2					
													FIRM-7	MISO	11.1					11.1
													PJM	0.2	0.2					
													SWPP	0.0	0.0					
													FIRM-CREDIT	MISO	0.0					0.0
								PJM	0.0	0.0										
								SWPP	0.0	0.0										
								Total		128.4	128.5									
Mar 17 00:33 (CST)	TLR 5B	CURRENT	NONE									NONE	ED-2	MISO	0.0	0.0	606	N/A	N/A	N/A
			PJM	0.0	0.0															
			SWPP	117.0	117.0															
			ED-6	MISO	0.0	0.0														
			PJM	0.0	0.0															
		SWPP	76.0	76.0																
		FIRM-7	MISO	0.0	0.0															
		PJM	1.0	1.0																
		SWPP	0.0	0.0																
		Total		194.0	194.0															
NEXT	1-NS	2 / 0	80	13.8	80	13.8	0	0.0	NONE	NONE										
	2-NH	4 / 0	227	54.7	227	54.7	0	0.0												
	5-NM	2 / 0	21	1.9	21	1.9	0	0.0												
	6-NN	2 / 0	170	21.5	170	21.5	0	0.0												
	7-F	62 / 0	118	21.3	118	21.3	0	0.0												
Total	72 / 0	0	113.2	596	113.2	0	0.0													
Mar 17 01:31 (CST)	TLR 5A	NEXT	1-NS	2 / 0	80	13.9	80	13.9	0	0.0	NONE	ED-2	MISO	0.0	0.0	582	N/A	N/A	N/A	
			2-NH	5 / 0	327	82.0	327	82.0	0	0.0			PJM	0.0	0.0					
			5-NM	2 / 0	59	6.3	59	6.3	0	0.0			SWPP	85.0	85.0					
			6-NN	2 / 0	170	21.6	170	21.6	0	0.0			MISO	0.0	0.0					
			7-F	70 / 0	220	45.6	220	45.6	0	0.0			PJM	0.0	0.0					
			Total	81 / 0	836	149.4	836	149.4	0	0.0			SWPP	52.9	52.9					
													MISO	50.4	50.4					
													PJM	0.7	0.7					
													SWPP	0.0	0.0					
													FIRM-CREDIT	MISO	0.0					0.0
								PJM	0.0	0.0										
								SWPP	0.0	0.0										
								Total		189.0	189.0									
Mar 17 02:32 (CST)	TLR 5A	NEXT	1-NS	2 / 0	80	13.8	80	13.8	0	0.0	NONE	ED-2	MISO	0.0	0.0	534	N/A	N/A	N/A	
			2-NH	5 / 0	327	81.5	327	81.5	0	0.0			PJM	0.0	0.0					
			5-NM	2 / 0	83	6.7	83	6.7	0	0.0			SWPP	32.0	32.0					
			6-NN	2 / 0	350	42.3	350	42.3	0	0.0			MISO	0.0	0.0					
			7-F	42 / 0	58	10.8	58	10.8	0	0.0			PJM	0.0	0.0					
			Total	53 / 0	858	135.1	858	135.1	0	0.0			SWPP	88.1	88.1					
													MISO	9.0	9.0					
													PJM	0.1	0.1					
													SWPP	0.0	0.0					
													FIRM-CREDIT	MISO	0.0					0.0
								PJM	0.0	0.0										
								SWPP	0.0	0.0										
								Total		127.3	127.2									

Mar 17 09:29 (CST)	TLR 5A	NEXT	1-NS	3 / 0	210	22.7	210	22.7	0	0.0	NONE	ED-2	MISO	0.0	0.0	538	N/A	N/A	N/A
			2-NH	5 / 0	327	81.5	327	81.5	0	0.0			PJM	0.0	0.0				
			5-NM	2 / 0	75	7.8	75	7.8	0	0.0			SWPP	33.0	33.0				
			8-NN	4 / 0	488	83.7	488	83.7	0	0.0			MISO	0.0	0.0				
			Total	14 / 0	1100	155.7	1100	155.7	0	0.0			PJM	0.0	0.0				
													SWPP	98.0	98.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													Total	129.0	129.0				
Mar 17 04:30 (CST)	TLR 5A	NEXT	2-NH	1 / 0	75	23.2	75	23.2	0	0.0	NONE	ED-2	MISO	0.0	0.0	526	N/A	N/A	N/A
			5-NM	1 / 0	37	4.4	37	4.4	0	0.0			PJM	0.0	0.0				
			8-NN	5 / 0	838	105.3	838	105.3	0	0.0			SWPP	22.0	22.0				
			Total	7 / 0	950	132.9	950	132.9	0	0.0			MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	102.0	102.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													Total	124.0	124.0				
Mar 17 05:31 (CST)	TLR 3A	NEXT	8-NN	0 / 1	0	0.0	0	0.0	20	2.1	NONE	ED-2	MISO	0.0	0.0	446	N/A	N/A	N/A
			Total	0 / 1	0	0.0	0	0.0	20	2.1			PJM	0.0	0.0				
													SWPP	0.0	0.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													Total	0.0	0.0				
Mar 17 08:31 (CST)	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	398	N/A	N/A	N/A
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													Total	0.0	0.0				
Mar 17 07:30 (CST)	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	437	N/A	N/A	N/A
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													MISO	0.0	0.0				
													PJM	0.0	0.0				
													SWPP	0.0	0.0				
													Total	0.0	0.0				

Mar 17 08:30 (CST)	TLR 3A	NEXT	6-NN Total	0 / 1 0 / 1	0 0	0.0 0.0	0 0	0.0 0.0	60 60	7.9 7.9	NONE	ED-2	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0	366	N/A	N/A	N/A
												ED-6	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0				
												FIRM-7	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0				
												Total		0.0 0.0 0.0	0.0 0.0 0.0				
Mar 17 09:28 (CST)	TLR 3A	NEXT	6-NN Total	0 / 1 0 / 1	0 0	0.0 0.0	0 0	0.0 0.0	75 75	17.9 17.9	NONE	ED-2	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0	317	N/A	N/A	N/A
												ED-6	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0				
												FIRM-7	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0				
												Total		0.0 0.0 0.0	0.0 0.0 0.0				
Mar 17 10:28 (CST)	TLR 3A	NEXT	NONE								NONE	ED-2	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0	328	N/A	N/A	N/A
												ED-6	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0				
												FIRM-7	MISO PJM SWPP	0.0 0.0 0.0	0.0 0.0 0.0				
												Total		0.0 0.0 0.0	0.0 0.0 0.0				
Mar 17 11:14 (CST)	TLR 0	CURRENT	NONE								NONE	NONE				375	N/A	N/A	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	19	690	690	0
2	42	2468	2343	0
3	0	0	0	0
4	0	0	0	0
5	16	420	393	0
6	30	3418	3418	155
7	293	1307	1307	0
Total	400	8303	8151	155

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
MISO	ED-2	0.0	0.0
	ED-6	0.0	0.0
	FIRM-7	254.1	254.1
Total MISO		254.1	254.1
PJM	ED-2	0.0	0.0
	ED-6	0.0	0.0
	FIRM-7	5.0	4.9
Total PJM		5.0	4.9
SWPP	ED-2	858.5	858.5
	ED-6	515.8	515.8
	FIRM-7	0.0	0.0
Total for SWPP		1374.4	1374.3
Total		1633.4	1633.3

A	B	C	D
1	Reliability Log for March, 16		2010
2	Time	Initials	Comments
3	2228	MRH	Issued TLR Level 1 on COOPER_S flgt 6009.
4	2246	MRH	Re-issued TLR Level 3B on COOPER_S flgt 6009. Set effective limit at 580.
5	2314	MRH	Re-issued TLR Level 3B on COOPER_S flgt 6009. Set effective limit at 560. Re-Issued because it IDC never took my requested cuts.
6	2322	MRH	Re-issued TLR Level 3B on COOPER_S flgt 6009. Set effective limit at 560. Re-Issued to cut deeper.
7	2330	MRH	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 560.
8			
9	Reliability Log for March, 17		2010
10	Time	Initials	Comments
11	0028	MRH	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 580.
12	0048	MRH	Re-issued TLR Level A on COOPER_S flgt 6009. Set effective limit at 580.
13	0053	MRH	Re-issued TLR Level 5A on COOPER_S flgt 6009. Set effective limit at 580. Re-Issued due fact that IDC calucated the amount relief wrong - MISO-St. Paul reports they saw that happen many times on this FG when one leg of the FG is out IDC has a hard time calculating correctly.
14	0101	MRH	NPPD-Kevin reports that according to the OPS guide we should maybe go to TLR 4 and and request curtail all Wind to "0" that is impacting this FG. Also discussed with MISO-Jeff the according to the COOPER_S op guide when I am in or going to go in to a TLR level 5 they are suppose to take all wind to 0 that is impacting this FG. MISO-JEFF claims the wind is at zero.
15	0131	MRH	Re-issued TLR Level 5B on COOPER_S flgt 6009. Set effective limit at 580. Re-Issued TLR 5B because TVA (AECI failed to acknowledge my cuts, re-issued to get the NS-1 cut.
16	0217	MRH	MISO-Jeff, I asked JEFF that I am seeing his wind Akins at 65Mws and that wind was suppose to be curtailed to 0. I asked Jeff at MISO taht you told me it was at 0 yet I am seeing 65Mws on a Akins Wind unit that has a 30.1 GSF impact on the FG. MISO-Jeff claims he is taking to 0. MISO-Jeff was advised taht I am going to have to cut more firm as the FG is still at 107%.
17	0218	MRH	NPPD-Keven advised of the talks with MISO about curtailing wind at Akins.
18	0229	MRH	Re-issued TLR Level 5A on COOPER_S flgt 6009. Set effective limit at 580.
19	0250	MRH	In a conversation with MISO-Jeff...I asked him what he thought I could maybe do, I have cut all my market non-Frim and FRIM put all the NF IDC tags, yet the MISO untagged parrell flow keeps increasing? I pointed again to the COOPER_S op Guide section 3.4.2 about all wind that is impacting this FG outside the market flow,,must be curtailed to 0. MISO-Jeff finally agreed that he understood Untagged parrell flow and had seen it before.
20	0310	MRH	After the prvious talks with MISO-Jeff he now calls and says he does not have a current COOPER_S op guide. I emails him a current OP guide for Cooper_S.
21	0331	MRH	Re-issued TLR Level 5A on COOPER_S flgt 6009. Set effective limit at 580.
22	0308	MRH	Questioned NPPD BA why they chose to ignore the curtailments on FG 6009 and was told he had so many cuts coming in that he missed them. It was only 3Mws and I chose not to re-issue since I was not needing the additional relief.
23	0428	MRH	Re-issued TLR Level 5A on COOPER_S flgt 6009. Set effective limit at 580.
24	0529	MRH	Re-issued TLR Level 5A on COOPER_S flgt 6009. Set effective limit at 580.
25	0627	RST	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 580.
26	0727	RST	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 580.
27	0828	RST	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 580.
28	0929	RST	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 580.
29	1025	RST	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 580.
30	1127	RST	Re-issued TLR Level 3A on COOPER_S flgt 6009. Set effective limit at 580.
31	1213	RST	Re-issued TLR Level 0 on COOPER_S flgt 6009. Set effective limit at 580.
32			
33			

COOPER_S #6009

— COOPER_S Flow — SOL — IROL

