

SPP TLR 5 Investigation Report
Flowgate 5354
(Randall – Palo Duro 115 kV for loss of Amarillo – Swisher 230 kV)
(RANPALAMASWI)
TLR Level 5: April 1-2, 2010
Report Issued: April 14, 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 5354 on April 1-2, 2010. Flowgate 5354 is an SPP flowgate. The flowgate was created in response to a request from the Balancing Authority due to an equipment rating decrease which in turn caused thermal loading concerns. The Level 5 TLR was in effect periodically beginning at 5:40 CST on April 1 and ending at 5:00 CST on April 3, 2010. North – South loading in the SPS region caused the projected post-contingent flows on the Randall – Palo Duro 115 kV line to exceed the SOL.

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

At the time the initial Level 5B TLR was issued, the Limiting Element was rated at 109 MVA. Flow on the Limiting Element was 57 MVA. Flow on the Contingent Element was 224 MVA. The LODF was approximately 22%. Post-contingent flow on the Limiting Element was approximately 105 MVA.

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 3-11.

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 or market flows impacting the flowgate by more than 5% prior to the level 5 TLR. 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 pages 12-13. 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 14.

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 in the SPS region. The facility derating also contributed to the need for the TLR. This facility has been in TLR frequently since the derate in October 2008. Loading sometimes requires escalating to a Level 5 TLR in order to obtain sufficient relief to reduce overloads. A reconfiguration option that had been used to relieve loading during 2009 had been rescinded by SPS due to reduced loading in the area. Loading increases in the area revived the previous constraint. The reconfiguration option was re-established a few days following this event.

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. Non-firm Market Flow was reduced on the flowgate as reported in the TLR Event History and NERC TLR Log on pages 3-11.

TLR Event History

5354 - RANPALAMASWI

Status	TLR Level	TLR Date	TLR Confirm Time	Run Time	Requested Relief	Remaining Relief	Relief Provided	Total Cuts	
								Tags	MW
SUPERSEDED	3B	03/31/2010 22:20	03/31/2010 22:08	03/31/2010 22:07:48	20.0	20.0	0.0	0	0
SUPERSEDED	3A	04/01/2010 00:00	03/31/2010 23:27	03/31/2010 23:26:10	0.0	0.0	0.0	0	0
SUPERSEDED	3A	04/01/2010 01:00	04/01/2010 00:27	04/01/2010 00:26:44	5.0	5.0	0.0	0	0
SUPERSEDED	3A	04/01/2010 02:00	04/01/2010 01:27	04/01/2010 01:25:56	18.0	18.0	0.0	0	0
SUPERSEDED	3A	04/01/2010 03:00	04/01/2010 02:26	04/01/2010 02:25:59	10.0	10.0	0.0	0	0
SUPERSEDED	3A	04/01/2010 04:00	04/01/2010 03:27	04/01/2010 03:27:05	5.0	5.0	0.0	0	0
SUPERSEDED	3A	04/01/2010 05:00	04/01/2010 04:26	04/01/2010 04:25:48	11.0	11.0	0.0	0	0
SUPERSEDED	5B	04/01/2010 05:40	04/01/2010 05:29	04/01/2010 05:27:54	5.0	0.0	5.0	0	0
SUPERSEDED	5A	04/01/2010 07:00	04/01/2010 06:27	04/01/2010 06:26:20	8.0	0.0	8.0	0	0
SUPERSEDED	5A	04/01/2010 08:00	04/01/2010 07:27	04/01/2010 07:26:21	12.0	0.0	12.0	0	0
SUPERSEDED	5A	04/01/2010 09:00	04/01/2010 08:25	04/01/2010 08:25:26	10.0	0.0	10.0	0	0
SUPERSEDED	5A	04/01/2010 10:00	04/01/2010 09:27	04/01/2010 09:27:00	10.0	0.0	10.0	0	0
SUPERSEDED	5A	04/01/2010 11:00	04/01/2010 10:30	04/01/2010 10:30:09	10.0	0.0	10.0	0	0
SUPERSEDED	5A	04/01/2010 12:00	04/01/2010 11:31	04/01/2010 11:28:49	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/01/2010 13:00	04/01/2010 12:30	04/01/2010 12:29:39	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/01/2010 14:00	04/01/2010 13:33	04/01/2010 13:33:09	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/01/2010 15:00	04/01/2010 14:38	04/01/2010 14:35:34	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/01/2010 16:00	04/01/2010 15:26	04/01/2010 15:26:15	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/01/2010 17:00	04/01/2010 16:30	04/01/2010 16:29:55	32.0	0.0	32.0	0	0
SUPERSEDED	5A	04/01/2010 18:00	04/01/2010 17:34	04/01/2010 17:33:33	36.0	0.0	36.0	0	0
SUPERSEDED	5A	04/01/2010 19:00	04/01/2010 18:33	04/01/2010 18:32:49	47.0	0.0	47.0	0	0
SUPERSEDED	5A	04/01/2010 20:00	04/01/2010 19:33	04/01/2010 19:32:42	28.0	0.0	28.0	0	0
SUPERSEDED	5A	04/01/2010 21:00	04/01/2010 20:32	04/01/2010 20:32:08	40.0	0.0	40.0	0	0
SUPERSEDED	5A	04/01/2010 22:00	04/01/2010 21:31	04/01/2010 21:31:08	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/01/2010 23:00	04/01/2010 22:33	04/01/2010 22:33:21	0.0	0.0	0.0	0	0
SUPERSEDED	3A	04/02/2010 00:00	04/01/2010 23:30	04/01/2010 23:29:30	33.0	33.0	0.0	0	0
SUPERSEDED	3A	04/02/2010 01:00	04/02/2010 00:27	04/02/2010 00:26:16	22.0	22.0	0.0	0	0
SUPERSEDED	5A	04/02/2010 02:00	04/02/2010 01:30	04/02/2010 01:30:21	28.0	0.0	28.0	0	0
SUPERSEDED	5A	04/02/2010 03:00	04/02/2010 02:27	04/02/2010 02:26:51	48.0	0.0	48.0	0	0
SUPERSEDED	3A	04/02/2010 04:00	04/02/2010 03:33	04/02/2010 03:32:42	23.0	23.0	0.0	0	0
SUPERSEDED	3A	04/02/2010 05:00	04/02/2010 04:27	04/02/2010 04:26:56	20.0	20.0	0.0	0	0
SUPERSEDED	5B	04/02/2010 05:35	04/02/2010 05:26	04/02/2010 05:26:01	10.0	0.0	10.0	0	0
SUPERSEDED	5A	04/02/2010 07:00	04/02/2010 06:29	04/02/2010 06:29:04	20.0	0.0	20.0	0	0
SUPERSEDED	3A	04/02/2010 08:00	04/02/2010 07:38	04/02/2010 07:37:53	20.0	16.0	4.0	0	0
SUPERSEDED	3A	04/02/2010 09:00	04/02/2010 08:26	04/02/2010 08:26:22	20.0	18.0	2.0	0	0
SUPERSEDED	3A	04/02/2010 10:00	04/02/2010 09:27	04/02/2010 09:27:01	20.0	20.0	0.0	0	0

SUPERSEDED	3A	04/02/2010 11:00	04/02/2010 10:28	04/02/2010 10:28:19	10.0	10.0	0.0	0	0
SUPERSEDED	3A	04/02/2010 12:00	04/02/2010 11:30	04/02/2010 11:30:16	15.0	15.0	0.0	0	0
SUPERSEDED	5B	04/02/2010 11:55	04/02/2010 11:54	04/02/2010 11:54:04	30.0	0.0	30.0	0	0
SUPERSEDED	5A	04/02/2010 13:00	04/02/2010 12:38	04/02/2010 12:37:59	30.0	0.0	30.0	0	0
SUPERSEDED	5A	04/02/2010 14:00	04/02/2010 13:26	04/02/2010 13:26:05	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/02/2010 15:00	04/02/2010 14:29	04/02/2010 14:29:08	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/02/2010 16:00	04/02/2010 15:30	04/02/2010 15:28:39	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/02/2010 17:00	04/02/2010 16:26	04/02/2010 16:26:27	20.0	0.0	20.0	0	0
SUPERSEDED	5A	04/02/2010 18:00	04/02/2010 17:29	04/02/2010 17:29:16	0.0	0.0	0.0	0	0
SUPERSEDED	5A	04/02/2010 19:00	04/02/2010 18:29	04/02/2010 18:27:29	22.0	0.0	22.0	0	0
SUPERSEDED	5A	04/02/2010 20:00	04/02/2010 19:28	04/02/2010 19:28:25	15.0	0.0	15.0	0	0
SUPERSEDED	5A	04/02/2010 21:00	04/02/2010 20:28	04/02/2010 20:28:21	10.0	0.0	10.0	0	0
SUPERSEDED	3A	04/02/2010 22:00	04/02/2010 21:34	04/02/2010 21:34:02	22.0	22.0	0.0	0	0
SUPERSEDED	3A	04/02/2010 23:00	04/02/2010 22:28	04/02/2010 22:28:07	24.0	24.0	0.0	0	0
SUPERSEDED	5B	04/02/2010 23:35	04/02/2010 23:22	04/02/2010 23:21:35	5.0	0.0	5.0	0	0
SUPERSEDED	5A	04/03/2010 01:00	04/03/2010 00:26	04/03/2010 00:25:46	10.0	0.0	10.0	0	0
SUPERSEDED	5A	04/03/2010 02:00	04/03/2010 01:28	04/03/2010 01:27:53	9.0	0.0	9.0	0	0
SUPERSEDED	5A	04/03/2010 03:00	04/03/2010 02:26	04/03/2010 02:26:06	5.0	0.0	5.0	0	0
SUPERSEDED	5A	04/03/2010 04:00	04/03/2010 03:26	04/03/2010 03:25:56	10.0	0.0	10.0	0	0
SUPERSEDED	3A	04/03/2010 05:00	04/03/2010 04:26	04/03/2010 04:25:50	20.0	20.0	0.0	0	0
TERMINATED	0	04/03/2010 05:00	04/03/2010 04:54	04/03/2010 04:54:12	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_5354_20100331_2220.htm

Incident:	SWPP_5354_20100331_2220	Date: 03/31/2010 (CST)	Reliability Coordinator: SWPP
Initial Conditions:	increasing load		
Flowgate:	5354 - RANPALAMASWI	Rating: 109	LODF: 21.66%
TLR Direction:	Normal		
Effective StartTime:	03/31/2010 22:20 (CST)	Effective EndTime: 04/03/2010 05:00 (CST)	TLR Duration: 54 Hours and 40 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	
Mar 31 22:08 (CST)	TLR 3B	CURRENT		NONE								NONE			ED-2	SWPP	0.0	0.0	57	105	222	N/A
		NEXT		NONE								NONE			ED-6	SWPP	0.0	0.0				
Mar 31 23:27 (CST)	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	58	107	227	N/A
Apr 01 00:27 (CST)	TLR 3A	NEXT		NONE								NONE			ED-6	SWPP	0.0	0.0	57	106	229	N/A
Apr 01 01:27 (CST)	TLR 3A	NEXT		NONE								NONE			FIRM-7	SWPP	0.0	0.0	56	103	220	N/A
Apr 01 02:28 (CST)	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	58	106	224	N/A
Apr 01 03:27 (CST)	TLR 3A	NEXT		NONE								NONE			ED-6	SWPP	0.0	0.0	57	105	223	N/A
Apr 01 04:28 (CST)	TLR 3A	NEXT		NONE								NONE			FIRM-7	SWPP	0.0	0.0	80	110	234	N/A

Apr 01 05:29 (CST)	TLR 5B	CURRENT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 5.0 5.0	0.0 0.0 5.0 5.0	57	105	224	N/A
		NEXT	NONE	NONE	NONE							
Apr 01 06:27 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 8.0 0.0 8.0	0.0 0.0 8.0 0.0 8.0	53	99	213	N/A
Apr 01 07:27 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 12.0 0.0 12.0	0.0 0.0 12.0 0.0 12.0	56	104	222	N/A
Apr 01 08:25 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 10.0 0.0 10.0	0.0 0.0 10.0 0.0 10.0	54	100	215	N/A
Apr 01 09:27 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 10.0 0.0 10.0	0.0 0.0 10.0 0.0 10.0	55	102	219	N/A
Apr 01 10:30 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 10.0 0.0 10.0	0.0 0.0 10.0 0.0 10.0	56	104	223	N/A
Apr 01 11:31 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	56	104	223	N/A
Apr 01 12:30 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	56	103	220	N/A
Apr 01 13:33 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	55	102	219	N/A
Apr 01 14:38 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	54	101	219	N/A

Apr 01 15:25 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	53	99	214	N/A
Apr 01 16:30 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 32.0 0.0 32.0	0.0 0.0 32.0 0.0 32.0	55	103	225	N/A
Apr 01 17:34 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 36.0 0.0 36.0	0.0 0.0 36.0 0.0 36.0	57	106	230	N/A
Apr 01 18:33 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 47.0 0.0 47.0	0.0 0.0 47.0 0.0 47.0	55	102	217	N/A
Apr 01 19:33 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 28.0 0.0 28.0	0.0 0.0 28.0 0.0 28.0	54	100	215	N/A
Apr 01 20:32 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 40.0 0.0 40.0	0.0 0.0 40.0 0.0 40.0	55	102	218	N/A
Apr 01 21:31 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	57	105	228	N/A
Apr 01 22:33 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	58	107	228	N/A
Apr 01 23:30 (CST)	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	56	102	215	N/A
Apr 02 00:27 (CST)	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	56	103	218	N/A
Apr 02 01:30 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 28.0 0.0 28.0	0.0 0.0 28.0 0.0 28.0	57	104	221	N/A

Apr 02 02:27 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 48.0 0.0 48.0	0.0 0.0 48.0 0.0 48.0	50	92	194	N/A
Apr 02 03:33 (CST)	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	58	106	225	N/A
Apr 02 04:27 (CST)	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	57	104	221	N/A
Apr 02 05:26 (CST)	TLR 5B	CURRENT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 2.0 19.0 21.0	0.0 2.0 19.0 21.0	54	98	208	N/A
		NEXT	NONE	NONE	NONE							
Apr 02 06:29 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	58	105	219	N/A
Apr 02 07:38 (CST)	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 4.0 0.0 4.0	0.0 4.0 0.0 4.0	57	103	215	N/A
Apr 02 08:26 (CST)	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 0.0 2.0 2.0	0.0 0.0 2.0 2.0	56	102	213	N/A
Apr 02 09:27 (CST)	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	57	104	219	N/A
Apr 02 10:28 (CST)	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	56	102	213	N/A
Apr 02 11:30 (CST)	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	57	104	220	N/A
Apr 02 11:54 (CST)	TLR 5B	CURRENT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 12.0 38.0 50.0	0.0 12.0 38.0 50.0	59	107	224	N/A
		NEXT	NONE	NONE	NONE							

Apr 02 12:38 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 30.0 0.0 30.0	0.0 0.0 30.0 0.0 30.0	58	102	215	N/A
Apr 02 13:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 1.0 19.0 0.0 20.0	0.0 1.0 19.0 0.0 20.0	54	98	207	N/A
Apr 02 14:29 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	53	97	204	N/A
Apr 02 15:30 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	55	101	213	N/A
Apr 02 16:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 20.0	0.0 0.0 20.0 0.0 20.0	55	100	210	N/A
Apr 02 17:29 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	55	100	212	N/A
Apr 02 18:29 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 22.0 0.0 22.0	0.0 0.0 22.0 0.0 22.0	55	100	211	N/A
Apr 02 19:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 15.0 0.0 15.0	0.0 0.0 15.0 0.0 15.0	52	94	198	N/A
Apr 02 20:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 10.0 0.0 10.0	0.0 0.0 10.0 0.0 10.0	51	92	192	N/A
Apr 02 21:34 (CST)	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	58	100	204	N/A
Apr 02 22:28 (CST)	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	58	104	213	N/A

Apr 02 23:22 (CST)	TLR 5B	CURRENT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP Total	0.0 11.0 1.0 12.0	0.0 11.0 1.0 12.0	80	107	221	N/A
		NEXT	NONE	NONE	NONE							
Apr 03 00:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP Total	0.0 0.0 10.0 0.0 10.0	0.0 0.0 10.0 0.0 10.0	53	94	193	N/A
		NEXT	NONE	NONE	NONE							
Apr 03 01:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP Total	0.0 2.0 7.0 0.0 9.0	0.0 2.0 7.0 0.0 9.0	54	96	195	N/A
		NEXT	NONE	NONE	NONE							
Apr 03 02:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP Total	0.0 1.0 4.0 0.0 5.0	0.0 1.0 4.0 0.0 5.0	54	96	197	N/A
		NEXT	NONE	NONE	NONE							
Apr 03 03:28 (CST)	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP Total	0.0 0.0 10.0 0.0 10.0	0.0 0.0 10.0 0.0 10.0	55	98	201	N/A
		NEXT	NONE	NONE	NONE							
Apr 03 04:28 (CST)	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP Total	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	60	107	218	N/A
		NEXT	NONE	NONE	NONE							
Apr 03 04:54 (CST)	TLR 0	CURRENT	NONE	NONE	NONE			58	103	212	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	33.0	33.0
	FIRM-7	701.0	701.0
Total for SWPP		734.0	734.0
Total		734.0	734.0

Reliability Log for April, 1				2010
Time	Initials	Comments	Thursday	
3/22/10	900	SPS Imports limited to 427 and SPS Exports limited to 385. Due to Elk City-Sweetwater line out.		
0026	LWB	Issued TLR level 3A on RanPalAmaSwi Flgt. 5354, IDC upgrade		
0126	LWB	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354, IDC upgrade		
0225	LWB	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354, IDC upgrade		
0325	LWB	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354, IDC upgrade		
0427	LWB	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354, IDC upgrade		
0627	MRH	Re-issued TLR level 5B on RanPalAmaSwi Flgt. 5354, Loading and Feasibility, set limit at 109 for loading.		
0726	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility.		
0826	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility. Effective limit set to 115 due to difference in RTB solutions		
0925	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1027	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1130	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1228	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1329	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1433	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1538	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1626	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1729	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1833	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
1932	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
2032	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
2132	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
2231	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		
2333	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Loading and Feasibility		

Reliability Log for April, 2				2010
Time	Initials	Comments	Friday	
3/22/10	900	SPS Imports limited to 427 and SPS Exports limited to 385. Due to Elk City-Sweetwater line out.		
0029	LWB	Issued TLR level 3A on RanPalAmaSwi Flgt. 5354,		
0126	LWB	Issued TLR level 3A on RanPalAmaSwi Flgt. 5354,		
0230	LWB	Issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Feasibility		
0326	LWB	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Feasibility		
0432	LWB	Issued TLR level 3A on RanPalAmaSwi Flgt. 5354.		
0526	MRH	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354.		
0626	MRH	Re-issued TLR level 5B on RanPalAmaSwi Flgt. 5354, Feasibility		
0729	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354, Feasibility, effective limit at 109		
0758	MRH	Set effective limit on Flgt 5354 to 116 due RT verse RTB.		
0837	MRH	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354		
0926	MRH	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354		
1027	MRH	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354		
1128	MRH	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354		
1230	MRH	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354		
1254	MRH	Re-issued TLR level 5B on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
1337	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
1426	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 109		
1529	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
1628	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
1726	MRH	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
1829	LRG	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
1927	LRG	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
2028	LRG	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
2128	LRG	Re-issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 105		
2234	LRG	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354		
2328	LRG	Re-issued TLR level 3A on RanPalAmaSwi Flgt. 5354		

Reliability Log for April, 3**2010**

Time	Initials	Comments	Saturday
3/22/10	900	SPS Imports limited to 427 and SPS Exports limited to 385. Due to Elk City-Sweetwater line out.	
0021	LRG	Issued TLR level 5B on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 110	
0125	LRG	Issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 110	
0227	LRG	Issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 110	
0326	LRG	Issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 110	
0425	LRG	Issued TLR level 5A on RanPalAmaSwi Flgt. 5354 Feasibility, effective limit at 110	
0525	LRG	Issued TLR level 3A on RanPalAmaSwi Flgt. 5354	
0654	MRH	Re-issued TLR level 0 on RanPalAmaSwi Flgt. 5354.	

RANPALAMASWI #5354

— Post Cont. — SOL

