

SPP TLR 5 Investigation Report
Flowgate 15849
(Randall-Palo Duro 115kV for the loss of Amarillo-Swisher 230kV)
(Temp14)
TLR Level 5: July 19-20, 2009
Report Issued: August 4, 2009

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 15849 on July 19-20, 2009. Flowgate 15849 is an SPP flowgate. The Level 5 TLR was in effect from 8:00 on July 19 until 11:40 CST on July 20, 2009. Projected post-contingent flows on the Randall – Palo Duro 115 kV line exceeded the SOL. This 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 rating is based on the limit within the substation.

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 99 MVA. Flow on the Limiting Element was 53 MVA. Flow on the Contingent Element was 160 MVA. The LODF was approximately 21%. Post-contingent flow on the Limiting Element was approximately 85 MVA. However, the balancing authority had been reporting post-contingent loading on the Limiting Element up to 30% higher than those recorded by the Reliability Coordinator. The Reliability Coordinator took action based on the higher loading observed by the balancing authority.

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 3-8.

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 that impacted the flowgate by more than 5%. The TLR was escalated to a Level 5 in order to curtail firm transactions and firm market flow 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, see page 9. 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 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 10.

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 coupled with a facility derating. 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. There are currently no plans to uprate this facility; however, a permanent reconfiguration option has been studied, and a new operation guide is being developed to alleviate loading on the flowgate.

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 Market Flow was reduced on the flowgate as reported in the TLR Event History and NERC TLR Log on pages 3-8.

TLR Event History

15849 - Temporary 14 - RCIPALAMASWI

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	07/18/2009 18:00	07/18/2009 17:41	07/18/2009 17:40:40	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/18/2009 19:00	07/18/2009 18:34	07/18/2009 18:34:04	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/18/2009 20:00	07/18/2009 19:28	07/18/2009 19:27:57	2.0	2.0	0.0	0	0
SUPERSEDED	3A	07/18/2009 21:00	07/18/2009 20:28	07/18/2009 20:27:43	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/18/2009 22:00	07/18/2009 21:31	07/18/2009 21:31:33	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/18/2009 23:00	07/18/2009 22:27	07/18/2009 22:27:22	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/19/2009 00:00	07/18/2009 23:25	07/18/2009 23:25:37	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/19/2009 01:00	07/19/2009 00:28	07/19/2009 00:28:20	10.0	10.0	0.0	0	0
SUPERSEDED	3A	07/19/2009 02:00	07/19/2009 01:32	07/19/2009 01:32:10	4.0	0.0	4.0	0	0
SUPERSEDED	3A	07/19/2009 03:00	07/19/2009 02:27	07/19/2009 02:26:50	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/19/2009 04:00	07/19/2009 03:27	07/19/2009 03:27:29	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/19/2009 05:00	07/19/2009 04:26	07/19/2009 04:25:52	1.0	0.0	1.0	0	0
SUPERSEDED	3A	07/19/2009 06:00	07/19/2009 05:26	07/19/2009 05:26:19	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/19/2009 07:00	07/19/2009 06:28	07/19/2009 06:28:35	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 08:00	07/19/2009 07:26	07/19/2009 07:26:06	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 09:00	07/19/2009 08:28	07/19/2009 08:27:36	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 10:00	07/19/2009 09:27	07/19/2009 09:26:32	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 11:00	07/19/2009 10:28	07/19/2009 10:28:28	6.0	0.0	6.0	0	0
SUPERSEDED	5A	07/19/2009 12:00	07/19/2009 11:27	07/19/2009 11:27:21	5.0	0.0	5.0	0	0
SUPERSEDED	5A	07/19/2009 13:00	07/19/2009 12:26	07/19/2009 12:26:21	5.0	0.0	5.0	0	0
SUPERSEDED	5A	07/19/2009 14:00	07/19/2009 13:27	07/19/2009 13:26:57	5.0	0.0	5.0	0	0
SUPERSEDED	5A	07/19/2009 15:00	07/19/2009 14:29	07/19/2009 14:29:18	6.0	0.0	6.0	0	0
SUPERSEDED	5A	07/19/2009 16:00	07/19/2009 15:27	07/19/2009 15:27:37	5.0	0.0	5.0	0	0
SUPERSEDED	5A	07/19/2009 17:00	07/19/2009 16:27	07/19/2009 16:27:15	4.0	0.0	4.0	0	0
SUPERSEDED	5A	07/19/2009 18:00	07/19/2009 17:27	07/19/2009 17:27:12	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 19:00	07/19/2009 18:29	07/19/2009 18:29:24	1.0	0.0	1.0	0	0
SUPERSEDED	5A	07/19/2009 20:00	07/19/2009 19:27	07/19/2009 19:27:08	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 21:00	07/19/2009 20:34	07/19/2009 20:33:42	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 22:00	07/19/2009 21:29	07/19/2009 21:29:24	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/19/2009 23:00	07/19/2009 22:30	07/19/2009 22:29:21	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 00:00	07/19/2009 23:29	07/19/2009 23:29:18	10.0	0.0	10.0	0	0
SUPERSEDED	5A	07/20/2009 01:00	07/20/2009 00:28	07/20/2009 00:27:59	1.0	0.0	1.0	0	0
SUPERSEDED	5A	07/20/2009 02:00	07/20/2009 01:29	07/20/2009 01:28:44	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 03:00	07/20/2009 02:32	07/20/2009 02:32:13	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 04:00	07/20/2009 03:27	07/20/2009 03:27:23	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 05:00	07/20/2009 04:25	07/20/2009 04:25:19	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 06:00	07/20/2009 05:26	07/20/2009 05:26:10	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 07:00	07/20/2009 06:26	07/20/2009 06:26:00	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 08:00	07/20/2009 07:26	07/20/2009 07:25:52	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 09:00	07/20/2009 08:26	07/20/2009 08:25:50	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 10:00	07/20/2009 09:27	07/20/2009 09:26:48	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/20/2009 11:00	07/20/2009 10:26	07/20/2009 10:25:46	0.0	0.0	0.0	0	0
TERMINATED	0	07/20/2009 11:40	07/20/2009 11:30	07/20/2009 11:30:22	0.0	0.0	0.0	0	0

08/04/2009 13:44:10 (CST)

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Event Summary

FILE SAVED AS: SWPP_15849_20090718_1800.htm

Incident:	SWPP_15849_20090718_1800	Date: 07/18/2009	Reliability Coordinator: SWPP
Initial Conditions:	Increasing Flows		
Flowgate:	15849 - Temporary 14 - RCIPALAMASWI	Rating: 99	LODF: 20.61%
TLR Direction:	Normal		
Effective StartTime:	07/18/2009 18:00	Effective EndTime: 07/20/2009 11:40	TLR Duration: 41 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		
					MW	Relief	MW	Relief	MW	Relief												
Jul 18 17:41	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	63	100	184	N/A
Jul 18 18:34	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	92	185	N/A
Jul 18 19:28	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	80	95	171	N/A
Jul 18 20:28	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	90	182	N/A
Jul 18 21:31	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	55	87	156	N/A
Jul 18 22:27	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	56	89	183	N/A
Jul 18 23:25	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	88	180	N/A
Jul 19 00:28	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	53	85	180	N/A
Jul 19 01:32	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	54	87	183	N/A

Jul 19 02:27	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	56	91	173	N/A
Jul 19 03:27	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	54	87	162	N/A
Jul 19 04:26	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 Total	SWPP SWPP SWPP	0.0 1.0 0.0 1.0	0.0 1.0 0.0 1.0	54	87	163	N/A
Jul 19 05:26	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	53	85	157	N/A
Jul 19 06:28	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	53	85	156	N/A
Jul 19 07:26	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	53	85	160	N/A
Jul 19 08:28	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	54	88	165	N/A
Jul 19 09:27	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	53	87	165	N/A
Jul 19 10:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 6.0 0.0 6.0	0.0 0.0 6.0 0.0 6.0	53	87	169	N/A
Jul 19 11:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 5.0 0.0 5.0	0.0 0.0 5.0 0.0 5.0	53	88	170	N/A
Jul 19 12:26	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 5.0 0.0 5.0	0.0 0.0 5.0 0.0 5.0	56	92	178	N/A
Jul 19 13:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 5.0 0.0 5.0	0.0 0.0 5.0 0.0 5.0	56	92	179	N/A

Jul 19 14:29	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 6.0	0.0 0.0 8.0 0.0 6.0	55	91	179	N/A
Jul 19 15:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 5.0 0.0 5.0	0.0 0.0 5.0 0.0 5.0	56	92	179	N/A
Jul 19 16:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 4.0 0.0 4.0	0.0 0.0 4.0 0.0 4.0	54	88	166	N/A
Jul 19 17:27	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	56	92	179	N/A
Jul 19 18:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 1.0 0.0 1.0	0.0 0.0 1.0 0.0 1.0	58	95	180	N/A
Jul 19 19:27	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	59	96	183	N/A
Jul 19 20:34	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	60	99	190	N/A
Jul 19 21:29	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	61	100	191	N/A
Jul 19 22:30	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	56	91	174	N/A
Jul 19 23:29	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	90	174	N/A
Jul 20 00:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 1.0 0.0 1.0	0.0 0.0 1.0 0.0 1.0	57	93	177	N/A

Jul 20 01:29	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	54	88	169	N/A
Jul 20 02:32	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	54	88	169	N/A
Jul 20 03:27	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	53	87	166	N/A
Jul 20 04:25	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	52	86	167	N/A
Jul 20 05:26	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	90	172	N/A
Jul 20 06:26	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	54	88	169	N/A
Jul 20 07:26	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	54	88	167	N/A
Jul 20 08:26	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	54	88	165	N/A
Jul 20 09:27	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	89	169	N/A
Jul 20 10:26	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	54	88	168	N/A
Jul 20 11:30	TLR 0	CURRENT	NONE	NONE	NONE				50	79	142	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	5.0	5.0
	FIRM-7	48.0	48.0
Total for SWPP		53.0	53.0
Total		53.0	53.0

	A	B	C	D
224	Reliability Log for July, 19			2009
225	Time	Initials	Comments	
226	0025	MRH	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
227	0128	MRH	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
228	0232	MRH	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
229	0328	MRH	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
230	0427	MRH	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
231	0525	MRH	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
232	0626	RST	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
233	0728	RST	Re-issued TLR Level 3A on Temp 14 - RCIPALAMASWI FG 15849.	
234	0826	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
235	0927	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
236	1026	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
237	1128	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
238	1227	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
239	1326	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
240	1426	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
241	1529	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
242	1627	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
243	1727	RST	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
244	1827	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
245	1929	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
246	2027	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
247	2133	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
248	2229	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
249	2329	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
251				
252	Reliability Log for July, 20			2009
253	Time	Initials	Comments	
254	0029	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
255	0127	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
256	0228	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
257	0332	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
258	0427	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
259	0525	MRH	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
260	0626	LRG	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
261	0726	LRG	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
262	0825	LRG	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
263	0925	LRG	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
264	1026	LRG	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
265	1125	LRG	Re-issued TLR Level 5A on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
266	1230	LRG	Re-issued TLR Level 0 on Temp 14 - RCIPALAMASWI FG 15849. For feasibility.	
270				

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