

**SPP TLR 5 Investigation Report**  
**Flowgate 15849**  
**(Randall-Palo Duro 115kV for the loss of Amarillo-Swisher 230kV)**  
**(Temp14)**  
**TLR Level 5: July 16-17, 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 16-17, 2009. Flowgate 15849 is an SPP flowgate. The Level 5 TLR was in effect from 7:00 on July 16 until 22:00 CST on July 17, 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 59 MVA. Flow on the Contingent Element was 188 MVA. The LODF was approximately 21%. Post-contingent flow on the Limiting Element was approximately 97 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 3-10.

**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 11-12. 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 13.

**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 3-10.

## 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	3B	07/15/2009 20:35	07/15/2009 20:24	07/15/2009 20:23:38	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/15/2009 22:00	07/15/2009 21:27	07/15/2009 21:27:24	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/15/2009 23:00	07/15/2009 22:27	07/15/2009 22:27:12	4.0	4.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 00:00	07/15/2009 23:27	07/15/2009 23:27:07	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 01:00	07/16/2009 00:26	07/16/2009 00:25:52	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 02:00	07/16/2009 01:30	07/16/2009 01:30:26	7.0	0.0	7.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 03:00	07/16/2009 02:31	07/16/2009 02:31:32	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 04:00	07/16/2009 03:26	07/16/2009 03:26:38	9.0	0.0	9.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 05:00	07/16/2009 04:26	07/16/2009 04:25:57	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 06:00	07/16/2009 05:26	07/16/2009 05:26:03	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	3A	07/16/2009 07:00	07/16/2009 06:28	07/16/2009 06:28:15	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 07:00	07/16/2009 06:41	07/16/2009 06:41:35	1.0	0.0	4.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 08:00	07/16/2009 07:35	07/16/2009 07:34:54	12.0	0.0	12.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 09:00	07/16/2009 08:28	07/16/2009 08:28:21	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 10:00	07/16/2009 09:28	07/16/2009 09:28:30	4.0	0.0	4.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 11:00	07/16/2009 10:34	07/16/2009 10:33:34	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 12:00	07/16/2009 11:35	07/16/2009 11:35:36	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 13:00	07/16/2009 12:32	07/16/2009 12:32:12	7.0	0.0	7.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 14:00	07/16/2009 13:31	07/16/2009 13:30:53	11.0	0.0	11.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 15:00	07/16/2009 14:28	07/16/2009 14:28:25	4.0	0.0	4.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 16:00	07/16/2009 15:30	07/16/2009 15:30:29	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 17:00	07/16/2009 16:30	07/16/2009 16:30:35	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 18:00	07/16/2009 17:31	07/16/2009 17:30:59	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 19:00	07/16/2009 18:34	07/16/2009 18:34:25	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 20:00	07/16/2009 19:30	07/16/2009 19:29:38	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 21:00	07/16/2009 20:30	07/16/2009 20:30:25	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 22:00	07/16/2009 21:30	07/16/2009 21:30:14	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/16/2009 23:00	07/16/2009 22:31	07/16/2009 22:31:22	0.0	0.0	0.0	0	0

<a href="#">SUPERSEDED</a>	5A	07/17/2009 00:00	07/16/2009 23:29	07/16/2009 23:28:46	0.0	0.0	4.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 01:00	07/17/2009 00:29	07/17/2009 00:29:02	0.0	0.0	18.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 02:00	07/17/2009 01:31	07/17/2009 01:31:11	0.0	0.0	20.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 03:00	07/17/2009 02:27	07/17/2009 02:26:57	0.0	0.0	22.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 04:00	07/17/2009 03:30	07/17/2009 03:30:17	0.0	0.0	21.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 05:00	07/17/2009 04:27	07/17/2009 04:27:14	0.0	0.0	22.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 06:00	07/17/2009 05:31	07/17/2009 05:31:16	4.0	0.0	17.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 07:00	07/17/2009 06:35	07/17/2009 06:35:13	0.0	0.0	8.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 08:00	07/17/2009 07:34	07/17/2009 07:33:58	0.0	0.0	3.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 09:00	07/17/2009 08:29	07/17/2009 08:29:28	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 10:00	07/17/2009 09:33	07/17/2009 09:32:41	3.0	0.0	3.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 11:00	07/17/2009 10:31	07/17/2009 10:30:55	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 12:00	07/17/2009 11:31	07/17/2009 11:30:58	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 13:00	07/17/2009 12:33	07/17/2009 12:32:36	3.0	0.0	3.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 14:00	07/17/2009 13:32	07/17/2009 13:31:48	3.0	0.0	3.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 15:00	07/17/2009 14:35	07/17/2009 14:34:21	1.0	0.0	1.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 16:00	07/17/2009 15:30	07/17/2009 15:30:17	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 17:00	07/17/2009 16:33	07/17/2009 16:32:40	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 18:00	07/17/2009 17:30	07/17/2009 17:30:17	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 19:00	07/17/2009 18:29	07/17/2009 18:29:11	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 20:00	07/17/2009 19:27	07/17/2009 19:26:20	0.0	0.0	0.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 21:00	07/17/2009 20:28	07/17/2009 20:27:56	11.0	0.0	11.0	0	0
<a href="#">SUPERSEDED</a>	5A	07/17/2009 22:00	07/17/2009 21:38	07/17/2009 21:37:48	2.0	0.0	2.0	0	0
<a href="#">TERMINATED</a>	0	07/17/2009 22:00	07/17/2009 21:48	07/17/2009 21:48:00	0.0	0.0	0.0	0	0

08/04/2009 13:23:20 (CST)

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## Event Summary

FILE SAVED AS: SWPP\_15849\_20090715\_2035.htm

Incident:	SWPP_15849_20090715_2035	Date: 07/15/2009	Reliability Coordinator: SWPP
Initial Conditions:	load increasing		
Flowgate:	15849 - Temporary 14 - RCIPALAMASWI	Rating: 99	LODF: 20.61%
TLR Direction:	Normal		
Effective StartTime:	07/15/2009 20:35	Effective EndTime: 07/17/2009 22:00	TLR Duration: 49 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		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 15 20:24	TLR 3B	CURRENT		NONE								NONE			ED-2	SWPP	0.0	0.0	53	86	182	N/A
		NEXT		NONE								NONE			ED-6	SWPP	0.0	0.0				
				NONE								NONE			FIRM-7	SWPP	0.0	0.0				
				NONE								NONE			<b>Total</b>		<b>0.0</b>	<b>0.0</b>				
Jul 15 21:27	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	55	90	170	N/A
				NONE								NONE			ED-6	SWPP	0.0	0.0				
				NONE								NONE			FIRM-7	SWPP	0.0	0.0				
				NONE								NONE			<b>Total</b>		<b>0.0</b>	<b>0.0</b>				
Jul 15 22:27	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	61	101	197	N/A
				NONE								NONE			ED-6	SWPP	0.0	0.0				
				NONE								NONE			FIRM-7	SWPP	0.0	0.0				
				NONE								NONE			<b>Total</b>		<b>0.0</b>	<b>0.0</b>				
Jul 15 23:27	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	60	99	191	N/A
				NONE								NONE			ED-6	SWPP	0.0	0.0				
				NONE								NONE			FIRM-7	SWPP	0.0	0.0				
				NONE								NONE			<b>Total</b>		<b>0.0</b>	<b>0.0</b>				
Jul 16 00:26	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	52	82	149	N/A
				NONE								NONE			ED-6	SWPP	0.0	0.0				
				NONE								NONE			FIRM-7	SWPP	0.0	0.0				
				NONE								NONE			<b>Total</b>		<b>0.0</b>	<b>0.0</b>				
Jul 16 01:30	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	57	91	167	N/A
				NONE								NONE			ED-6	SWPP	7.0	7.0				
				NONE								NONE			FIRM-7	SWPP	0.0	0.0				
				NONE								NONE			<b>Total</b>		<b>7.0</b>	<b>7.0</b>				
Jul 16 02:31	TLR 3A	NEXT		NONE								NONE			ED-2	SWPP	0.0	0.0	59	95	175	N/A
				NONE								NONE			ED-6	SWPP	0.0	0.0				
				NONE								NONE			FIRM-7	SWPP	0.0	0.0				
				NONE								NONE			<b>Total</b>		<b>0.0</b>	<b>0.0</b>				

Jul 16 03:26	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 <b>Total</b>	SWPP SWPP SWPP	0.0 9.0 0.0 <b>9.0</b>	0.0 9.0 0.0 <b>9.0</b>	56	90	165	N/A
Jul 16 04:26	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 <b>Total</b>	SWPP SWPP SWPP	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>	80	97	184	N/A
Jul 16 05:26	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 <b>Total</b>	SWPP SWPP SWPP	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>	59	96	181	N/A
Jul 16 06:28	TLR 3A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 <b>Total</b>	SWPP SWPP SWPP	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>	59	97	189	N/A
Jul 16 06:41	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 4.0 0.0 0.0 <b>4.0</b>	0.0 4.0 0.0 0.0 <b>4.0</b>	59	97	188	N/A
Jul 16 07:35	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 12.0 0.0 <b>12.0</b>	0.0 0.0 12.0 0.0 <b>12.0</b>	56	89	161	N/A
Jul 16 08:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	55	89	166	N/A
Jul 16 09:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 4.0 0.0 <b>4.0</b>	0.0 0.0 4.0 0.0 <b>4.0</b>	54	87	163	N/A
Jul 16 10:34	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	52	82	150	N/A
Jul 16 11:35	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	55	88	152	N/A
Jul 16 12:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 7.0 0.0 <b>7.0</b>	0.0 0.0 7.0 0.0 <b>7.0</b>	54	85	153	N/A
Jul 16 13:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 11.0 0.0 <b>11.0</b>	0.0 0.0 11.0 0.0 <b>11.0</b>	53	83	149	N/A

Jul 16 14:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 4.0 0.0 <b>4.0</b>	0.0 0.0 4.0 0.0 <b>4.0</b>	53	94	152	N/A
Jul 16 15:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	56	89	182	N/A
Jul 16 16:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	60	94	169	N/A
Jul 16 17:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	59	91	180	N/A
Jul 16 18:34	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	64	103	190	N/A
Jul 16 19:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	53	83	150	N/A
Jul 16 20:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	58	92	166	N/A
Jul 16 21:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	55	88	182	N/A
Jul 16 22:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	55	87	159	N/A
Jul 16 23:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 4.0 0.0 0.0 <b>4.0</b>	0.0 4.0 0.0 0.0 <b>4.0</b>	55	87	158	N/A
Jul 17 00:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 18.0 0.0 0.0 <b>18.0</b>	0.0 18.0 0.0 0.0 <b>18.0</b>	58	93	172	N/A

Jul 17 01:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 20.0 0.0 0.0 <b>20.0</b>	0.0 20.0 0.0 0.0 <b>20.0</b>	56	90	189	N/A
Jul 17 02:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 22.0 0.0 0.0 <b>22.0</b>	0.0 22.0 0.0 0.0 <b>22.0</b>	54	88	180	N/A
Jul 17 03:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 21.0 0.0 0.0 <b>21.0</b>	0.0 21.0 0.0 0.0 <b>21.0</b>	54	87	181	N/A
Jul 17 04:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 22.0 0.0 0.0 <b>22.0</b>	0.0 22.0 0.0 0.0 <b>22.0</b>	53	85	158	N/A
Jul 17 05:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 17.0 0.0 0.0 <b>17.0</b>	0.0 17.0 0.0 0.0 <b>17.0</b>	53	88	181	N/A
Jul 17 06:35	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 8.0 0.0 0.0 <b>8.0</b>	0.0 8.0 0.0 0.0 <b>8.0</b>	57	92	174	N/A
Jul 17 07:34	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 3.0 0.0 0.0 <b>3.0</b>	0.0 3.0 0.0 0.0 <b>3.0</b>	58	93	174	N/A
Jul 17 08:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	54	85	155	N/A
Jul 17 09:33	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 3.0 0.0 <b>3.0</b>	0.0 0.0 3.0 0.0 <b>3.0</b>	55	89	187	N/A
Jul 17 10:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	57	92	174	N/A
Jul 17 11:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	56	91	170	N/A

Jul 17 12:33	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 3.0 0.0 <b>3.0</b>	0.0 0.0 3.0 0.0 <b>3.0</b>	58	93	174	N/A
Jul 17 13:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 3.0 0.0 <b>3.0</b>	0.0 0.0 3.0 0.0 <b>3.0</b>	58	93	173	N/A
Jul 17 14:35	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 1.0 0.0 <b>1.0</b>	0.0 0.0 1.0 0.0 <b>1.0</b>	57	91	168	N/A
Jul 17 15:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	57	91	168	N/A
Jul 17 16:33	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	82	99	183	N/A
Jul 17 17:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	56	89	163	N/A
Jul 17 18:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	57	92	171	N/A
Jul 17 19:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 0.0 <b>0.0</b>	54	84	148	N/A
Jul 17 20:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 11.0 0.0 <b>11.0</b>	0.0 0.0 11.0 0.0 <b>11.0</b>	52	82	149	N/A
Jul 17 21:38	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT <b>Total</b>	SWPP SWPP SWPP SWPP	0.0 0.0 2.0 0.0 <b>2.0</b>	0.0 0.0 2.0 0.0 <b>2.0</b>	51	81	146	N/A
Jul 17 21:48	TLR 0	CURRENT	NONE	NONE	NONE				53	84	153	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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	155.0	155.0
	FIRM-7	61.0	61.0
Total for SWPP		216.0	216.0
<b>Total</b>		<b>216.0</b>	<b>216.0</b>

	A	B	C	D
147	<b>Reliability Log for July, 16</b>			<b>2009</b>
148	Time	Initials	Comments	
149	0027	RGH	Issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
150	0125	RGH	Issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
151	0230	RGH	Issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
152	0331	RGH	Issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
153	0426	RGH	Issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
154	0525	RGH	Issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
155	0626	RST	Re-issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
156	0628	RST	Re-issued TLR Level 3A on Temp 14 RCIPALAMASWI #15849	
157	0641	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
158	0834	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
159	0928	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
160	1028	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
161	1133	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
162	1235	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
163	1332	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
164	1430	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
165	1528	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
166	1630	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
167	1730	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
168	1830	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
169	1934	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
170	2029	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
171	2130	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
172	2230	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
173	2331	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
174				

	A	B	C	D
176	<b>Reliability Log for July, 17</b>			<b>2009</b>
177	Time	Initials	Comments	
178	0028	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
179	0129	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
180	0231	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
181	0326	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
182	0430	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
183	0527	RGH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
184	0631	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
185	0735	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
186	0833	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
187	0929	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
188	1032	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
189	1130	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
190	1230	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
191	1332	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
192	1431	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
193	1534	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
194	1630	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
195	1732	RST	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
196	1830	MRH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
197	1929	MRH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
198	2026	MRH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
199	2127	MRH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
200	2237	MRH	Re-issued TLR Level 5A on Temp 14 RCIPALAMASWI #15849. For feasibility.	
201	2246	MRH	Re-issued TLR Level 0 on Temp 14 RCIPALAMASWI #15849.	
202				

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