

SPP TLR 5 Investigation Report
Flowgate 15849
(Randall-Palo Duro 115kV for the loss of Amarillo-Swisher 230kV)
(Temp14)
TLR Level 5: July 11-12, 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 11-12, 2009. Flowgate 15849 is an SPP flowgate. The Level 5 TLR was in effect from 4:00 until 10:00 CST on July 11 and again from 1:00 until 16:00 on July 12, 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 170 MVA. The LODF was approximately 20%. Post-contingent flow on the Limiting Element was approximately 87 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 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 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 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	3B	07/10/2009 23:20	07/10/2009 23:08	07/10/2009 23:07:48	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 01:00	07/11/2009 00:28	07/11/2009 00:27:42	13.0	13.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 02:00	07/11/2009 01:30	07/11/2009 01:30:28	15.0	15.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 03:00	07/11/2009 02:29	07/11/2009 02:29:06	13.0	13.0	0.0	0	0
SUPERSEDED	5A	07/11/2009 04:00	07/11/2009 03:34	07/11/2009 03:32:57	3.0	0.0	3.0	0	0
SUPERSEDED	5A	07/11/2009 05:00	07/11/2009 04:27	07/11/2009 04:27:13	4.0	0.0	5.0	0	0
SUPERSEDED	5A	07/11/2009 06:00	07/11/2009 05:30	07/11/2009 05:29:31	6.0	0.0	6.0	0	0
SUPERSEDED	5A	07/11/2009 07:00	07/11/2009 06:28	07/11/2009 06:27:44	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/11/2009 08:00	07/11/2009 07:29	07/11/2009 07:28:49	0.0	0.0	1.0	0	0
SUPERSEDED	5A	07/11/2009 09:00	07/11/2009 08:28	07/11/2009 08:28:07	0.0	0.0	3.0	0	0
SUPERSEDED	3A	07/11/2009 10:00	07/11/2009 09:30	07/11/2009 09:30:29	8.0	8.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 11:00	07/11/2009 10:28	07/11/2009 10:28:06	8.0	8.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 12:00	07/11/2009 11:29	07/11/2009 11:29:21	15.0	15.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 13:00	07/11/2009 12:28	07/11/2009 12:27:43	7.0	7.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 14:00	07/11/2009 13:32	07/11/2009 13:32:01	14.0	14.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 15:00	07/11/2009 14:29	07/11/2009 14:28:56	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 16:00	07/11/2009 15:28	07/11/2009 15:28:03	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 17:00	07/11/2009 16:28	07/11/2009 16:28:31	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 18:00	07/11/2009 17:32	07/11/2009 17:31:47	9.0	9.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 19:00	07/11/2009 18:31	07/11/2009 18:31:08	10.0	10.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 20:00	07/11/2009 19:32	07/11/2009 19:32:30	5.0	5.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 21:00	07/11/2009 20:30	07/11/2009 20:30:34	11.0	11.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 22:00	07/11/2009 21:28	07/11/2009 21:28:20	12.0	12.0	0.0	0	0
SUPERSEDED	3A	07/11/2009 23:00	07/11/2009 22:30	07/11/2009 22:29:48	8.0	8.0	0.0	0	0
SUPERSEDED	3A	07/12/2009 00:00	07/11/2009 23:31	07/11/2009 23:30:55	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 01:00	07/12/2009 00:32	07/12/2009 00:30:48	12.0	0.0	12.0	0	0
SUPERSEDED	5A	07/12/2009 02:00	07/12/2009 01:29	07/12/2009 01:29:08	0.0	0.0	1.0	0	0
SUPERSEDED	5A	07/12/2009 03:00	07/12/2009 02:32	07/12/2009 02:31:53	3.0	0.0	3.0	0	0
SUPERSEDED	5A	07/12/2009 04:00	07/12/2009 03:39	07/12/2009 03:39:14	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 05:00	07/12/2009 04:32	07/12/2009 04:31:29	0.0	0.0	5.0	0	0
SUPERSEDED	5A	07/12/2009 06:00	07/12/2009 05:29	07/12/2009 05:28:43	0.0	0.0	5.0	0	0
SUPERSEDED	5A	07/12/2009 07:00	07/12/2009 06:29	07/12/2009 06:28:31	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 08:00	07/12/2009 07:29	07/12/2009 07:28:50	0.0	0.0	6.0	0	0
SUPERSEDED	5A	07/12/2009 09:00	07/12/2009 08:31	07/12/2009 08:31:02	0.0	0.0	2.0	0	0
SUPERSEDED	5A	07/12/2009 10:00	07/12/2009 09:29	07/12/2009 09:28:28	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 11:00	07/12/2009 10:30	07/12/2009 10:29:31	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 12:00	07/12/2009 11:28	07/12/2009 11:28:07	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 13:00	07/12/2009 12:28	07/12/2009 12:27:53	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 14:00	07/12/2009 13:27	07/12/2009 13:27:24	0.0	0.0	0.0	0	0
SUPERSEDED	5A	07/12/2009 15:00	07/12/2009 14:28	07/12/2009 14:28:01	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/12/2009 16:00	07/12/2009 15:28	07/12/2009 15:28:08	17.0	17.0	0.0	0	0
TERMINATED	0	07/12/2009 16:25	07/12/2009 16:13	07/12/2009 16:12:29	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_15849_20090710_2320.htm

Incident:	SWPP_15849_20090710_2320	Date: 07/10/2009	Reliability Coordinator: SWPP
Initial Conditions:	increasing flow		
Flowgate:	15849 - Temporary 14 - RCIPALAMASWI	Rating: 99	LODF: 20.38%
TLR Direction:	Normal		
Effective StartTime:	07/10/2009 23:20	Effective EndTime: 07/12/2009 16:25	TLR Duration: 41 Hours and 5 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	
Jul 10 23:08	TLR 3B	CURRENT		NONE						NONE			ED-2	SWPP	0.0	0.0	51	85	187	N/A
		NEXT		NONE						NONE			ED-6	SWPP	0.0	0.0				
													FIRM-7	SWPP	0.0	0.0				
													Total		0.0	0.0				
Jul 11 00:28	TLR 3A	NEXT		NONE						NONE			ED-2	SWPP	0.0	0.0	51	85	189	N/A
													ED-6	SWPP	0.0	0.0				
													FIRM-7	SWPP	0.0	0.0				
													Total		0.0	0.0				
Jul 11 01:30	TLR 3A	NEXT		NONE						NONE			ED-2	SWPP	0.0	0.0	50	82	180	N/A
													ED-6	SWPP	0.0	0.0				
													FIRM-7	SWPP	0.0	0.0				
													Total		0.0	0.0				
Jul 11 02:29	TLR 3A	NEXT		NONE						NONE			ED-2	SWPP	0.0	0.0	49	79	151	N/A
													ED-6	SWPP	0.0	0.0				
													FIRM-7	SWPP	0.0	0.0				
													Total		0.0	0.0				
Jul 11 03:34	TLR 5A	NEXT		NONE						NONE			ED-2	SWPP	0.0	0.0	53	87	170	N/A
													ED-6	SWPP	0.0	0.0				
													FIRM-7	SWPP	3.0	3.0				
													FIRM-CREDIT	SWPP	0.0	0.0				
													Total		3.0	3.0				
Jul 11 04:27	TLR 5A	NEXT		NONE						NONE			ED-2	SWPP	0.0	0.0	53	87	170	N/A
													ED-6	SWPP	5.0	5.0				
													FIRM-7	SWPP	0.0	0.0				
													FIRM-CREDIT	SWPP	0.0	0.0				
													Total		5.0	5.0				
Jul 11 05:30	TLR 5A	NEXT		NONE						NONE			ED-2	SWPP	0.0	0.0	55	91	179	N/A
													ED-6	SWPP	5.0	5.0				
													FIRM-7	SWPP	1.0	1.0				
													FIRM-CREDIT	SWPP	0.0	0.0				
													Total		6.0	6.0				

Jul 11 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	90	177	N/A
Jul 11 07:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 1.0 0.0 0.0 1.0	0.0 1.0 0.0 0.0 1.0	52	88	189	N/A
Jul 11 08:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 3.0 0.0 0.0 3.0	0.0 3.0 0.0 0.0 3.0	53	88	176	N/A
Jul 11 09:30	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	50	82	180	N/A
Jul 11 10:28	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	46	74	140	N/A
Jul 11 11:29	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	49	81	180	N/A
Jul 11 12:28	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	48	79	157	N/A
Jul 11 13:32	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	49	81	180	N/A
Jul 11 14:29	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	49	80	156	N/A
Jul 11 15:28	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	48	78	148	N/A
Jul 11 16:28	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	47	76	145	N/A
Jul 11 17:32	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	52	85	183	N/A
Jul 11 18:31	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	89	170	N/A

Jul 11 19:32	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	90	175	N/A
Jul 11 20:30	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	52	88	188	N/A
Jul 11 21:28	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	54	89	174	N/A
Jul 11 22:30	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	89	173	N/A
Jul 11 23:31	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	53	88	174	N/A
Jul 12 00:32	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	53	87	171	N/A
Jul 12 01:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 1.0 0.0 0.0 1.0	0.0 1.0 0.0 0.0 1.0	57	95	190	N/A
Jul 12 02:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 3.0 0.0 3.0	0.0 0.0 3.0 0.0 3.0	57	95	191	N/A
Jul 12 03:39	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	57	96	193	N/A
Jul 12 04:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 5.0 0.0 0.0 5.0	0.0 5.0 0.0 0.0 5.0	56	94	188	N/A
Jul 12 05:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 5.0 0.0 0.0 5.0	0.0 5.0 0.0 0.0 5.0	52	88	167	N/A
Jul 12 06:29	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	49	80	153	N/A

Jul 12 07:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 6.0 0.0 0.0 6.0	0.0 6.0 0.0 0.0 6.0	50	82	180	N/A
Jul 12 08:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 2.0 0.0 0.0 2.0	0.0 2.0 0.0 0.0 2.0	47	77	152	N/A
Jul 12 09:29	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	49	81	158	N/A
Jul 12 10:30	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	48	79	153	N/A
Jul 12 11:28	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	47	77	152	N/A
Jul 12 12:28	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	50	82	181	N/A
Jul 12 13:27	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	48	79	154	N/A
Jul 12 14:28	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	49	80	154	N/A
Jul 12 15:28	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	50	81	155	N/A
Jul 12 16:13	TLR 0	CURRENT	NONE	NONE	NONE				44	70	130	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	19.0	19.0
Total for SWPP		52.0	52.0
Total		52.0	52.0

	A	B	C	D
29	Reliability Log for July, 11			2009
30	Time	Initials	Comments	
31	0007	RST	Issued TLR Level 3B on Temp 14-RciPalAmaSwi Flgt. 15849	
32	0127	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849	
33	0230	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849	
34	0329	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849	
35	0432	RST	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
36	0527	RST	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
37	0629	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
38	0727	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
39	0828	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
40	0928	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
41	1030	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
42	1128	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
43	1229	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
44	1327	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
45	1432	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
46	1528	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
47	1628	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
48	1728	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
49	1831	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
50	1931	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
51	2032	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
52	2130	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
53	2228	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
54	2329	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
55				
56				

	A	B	C	D
57	Reliability Log for July, 12			2009
58	Time	Initials	Comments	
59	0030	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
60	0130	RST	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
61	0229	RST	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
62	0331	RST	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
63	0439	RST	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
64	0531	RST	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
65	0628	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
66	0728	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
67	0828	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
68	0928	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
69	1028	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
70	1129	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
71	1228	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
72	1327	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
73	1427	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
74	1528	WRG	Re-issued TLR Level 5A on Temp 14-RciPalAmaSwi Flgt. 15849. For feasibility.	
75	1628	WRG	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
76	1712	WRG	Re-issued TLR Level 0 on Temp 14-RciPalAmaSwi Flgt. 15849.	
77	2223	RST	Issued TLR Level 3B on Temp 14-RciPalAmaSwi Flgt. 15849.	
78	2326	RST	Re-issued TLR Level 3A on Temp 14-RciPalAmaSwi Flgt. 15849.	
79				
80				

15849 7/11/09 - 7/12/09

