

**SPP TLR 5 Investigation Report
Flowgate 6007
(Gentleman – Red Willow 345 kV)
(GENTLMREDWIL)
TLR Level 5: July 7, 2009
Report Issued: August 10, 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 6007 on July 7, 2009. Flowgate 6007 is an SPP flowgate. This flowgate is used to monitor and control voltage and loading on several facilities in the area. The Level 5 TLR was in effect from 10:00 until 11:00 CST on July 7, 2009. Projected flows on the Gentleman – Red Willow 345 kV line were expected to exceed the SOL.

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

The rating of this flowgate is determined by periodic review by NPPD depending upon current and anticipated system conditions. At the time the Level 5A TLR was issued, the Limiting Element was rated at 485 MVA. Flow on the Limiting Element was 336 MVA.

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

TLRs 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.

Non-firm transactions had already been curtailed due to TLR action. The TLR was escalated to a Level 5 in order to curtail firm transactions and firm market flow.

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 CST.

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 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. Reconfiguration is sometimes a viable companion to TLR on this flowgate. However, it was only available for four hours during this TLR.

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 3-8.

TLR Event History

6007 - GENTLMN3 345 REDWILO3 345 1

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	07/06/2009 12:30	07/06/2009 12:15	07/06/2009 12:14:59	35.0	0.0	35.1	9	255
SUPERSEDED	3A	07/06/2009 14:00	07/06/2009 13:29	07/06/2009 13:28:52	0.0	0.0	0.6	2	8
SUPERSEDED	3A	07/06/2009 15:00	07/06/2009 14:28	07/06/2009 14:27:46	0.0	0.0	0.6	2	8
SUPERSEDED	3A	07/06/2009 16:00	07/06/2009 15:31	07/06/2009 15:31:20	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/06/2009 17:00	07/06/2009 16:27	07/06/2009 16:27:18	0.0	0.0	0.6	2	8
SUPERSEDED	3A	07/06/2009 18:00	07/06/2009 17:28	07/06/2009 17:27:55	20.0	0.0	20.2	6	235
SUPERSEDED	3A	07/06/2009 19:00	07/06/2009 18:28	07/06/2009 18:27:46	66.0	37.3	28.7	6	313
SUPERSEDED	3A	07/06/2009 20:00	07/06/2009 19:27	07/06/2009 19:26:46	60.0	27.5	32.5	6	313
SUPERSEDED	3A	07/06/2009 21:00	07/06/2009 20:29	07/06/2009 20:29:05	60.0	0.0	60.0	4	161
SUPERSEDED	3A	07/06/2009 22:00	07/06/2009 21:30	07/06/2009 21:30:01	70.0	31.7	38.3	5	228
SUPERSEDED	3A	07/06/2009 23:00	07/06/2009 22:27	07/06/2009 22:26:49	80.0	40.2	39.8	3	237
SUPERSEDED	3A	07/07/2009 00:00	07/06/2009 23:32	07/06/2009 23:31:58	80.0	33.7	46.3	3	243
SUPERSEDED	3A	07/07/2009 01:00	07/07/2009 00:28	07/07/2009 00:28:15	70.0	33.3	36.7	3	249
SUPERSEDED	1	07/07/2009 01:30	07/07/2009 01:18	07/07/2009 01:18:41	0.0	0.0	0.0	0	0
SUPERSEDED	1	07/07/2009 03:35	07/07/2009 03:25	07/07/2009 03:25:22	0.0	0.0	0.0	0	0
SUPERSEDED	3B	07/07/2009 07:45	07/07/2009 07:36	07/07/2009 07:36:08	70.0	0.0	70.1	3	245
SUPERSEDED	3A	07/07/2009 09:00	07/07/2009 08:28	07/07/2009 08:27:31	16.0	0.0	16.1	4	183
SUPERSEDED	5A	07/07/2009 10:00	07/07/2009 09:28	07/07/2009 09:27:15	0.0	0.0	21.9	4	263
SUPERSEDED	3A	07/07/2009 11:00	07/07/2009 10:29	07/07/2009 10:29:16	0.0	0.0	2.0	1	34
SUPERSEDED	3A	07/07/2009 12:00	07/07/2009 11:27	07/07/2009 11:26:39	0.0	0.0	2.0	1	34
SUPERSEDED	1	07/07/2009 12:40	07/07/2009 12:31	07/07/2009 12:30:29	0.0	0.0	0.0	0	0
SUPERSEDED	1	07/07/2009 17:40	07/07/2009 17:26	07/07/2009 17:26:32	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/07/2009 18:00	07/07/2009 17:35	07/07/2009 17:34:43	50.0	27.3	22.7	4	279
SUPERSEDED	3A	07/07/2009 19:00	07/07/2009 18:26	07/07/2009 18:26:14	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/07/2009 20:00	07/07/2009 19:26	07/07/2009 19:26:03	0.0	0.0	0.0	0	0
SUPERSEDED	3A	07/07/2009 21:00	07/07/2009 20:26	07/07/2009 20:26:39	15.0	0.0	15.0	2	191
SUPERSEDED	3A	07/07/2009 22:00	07/07/2009 21:28	07/07/2009 21:28:22	80.0	9.4	70.6	3	220
SUPERSEDED	3A	07/07/2009 23:00	07/07/2009 22:27	07/07/2009 22:26:49	70.0	0.0	70.0	2	115
TERMINATED	0	07/07/2009 23:35	07/07/2009 23:21	07/07/2009 23:21:32	0.0	0.0	0.0	0	0

08/10/2009 11:40:15 (CST)

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Event Summary

FILE SAVED AS: SWPP_6007_20090706_1230.htm

Incident:	SWPP_6007_20090706_1230	Date: 07/06/2009	Reliability Coordinator: SWPP
Initial Conditions:	Increasing flow		
Flowgate:	6007 - GENTLMN3 345 REDWILO3 345 1	Rating: 485	LODF: N/A
TLR Direction:	Normal		
Effective StartTime:	07/06/2009 12:30	Effective EndTime: 07/07/2009 23:35	TLR Duration: 35 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	Post Cont.	Cont. Flow		
					MW	Relief	MW	Relief	MW	Relief												
Jul 06 12:15	TLR 3B	CURRENT	2-NH	6 / 0	115	7.7	115	7.7	0	0.0	NONE	ED-2	MISO	0.0	0.0	440	N/A	N/A	N/A			
			6-NN	3 / 0	140	14.6	140	14.6	0	0.0			MISO	14.0	14.0							
			Total	9 / 0	314	22.3	255	22.3	0	0.0		Total		20.8	20.8							
		NEXT	2-NH	6 / 2	117	8.0	117	8.0	52	4.1	NONE	ED-2	MISO	0.0	0.0							
			Total	6 / 2	314	8.0	117	8.0	52	4.1		Total		0.0	0.0							
Jul 06 13:29	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	387	N/A	N/A	N/A			
												ED-6	MISO	0.0	0.0							
												FIRM-7	MISO	0.0	0.0							
												Total		0.0	0.0							
Jul 06 14:28	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	414	N/A	N/A	N/A			
												ED-6	MISO	0.0	0.0							
												FIRM-7	MISO	0.0	0.0							
												Total		0.0	0.0							
Jul 06 15:31	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	411	N/A	N/A	N/A			
												ED-6	MISO	0.0	0.0							
												FIRM-7	MISO	0.0	0.0							
												Total		0.0	0.0							

Jul 06 18:27	TLR 3A	NEXT	NONE								NONE	ED-2	MISO	0.0	0.0	415	N/A	N/A	N/A
											ED-6	SWPP	0.0	0.0					
											FIRM-7	MISO	0.0	0.0					
											MISO	0.0	0.0						
											SWPP	0.0	0.0						
											Total	0.0	0.0						
Jul 06 17:28	TLR 3A	NEXT	2-NH	3 / 0	83	3.5	83	3.5	0	0.0	NONE	ED-2	MISO	0.0	0.0	408	N/A	N/A	N/A
			6-NN	3 / 0	172	16.6	172	16.6	0	0.0		ED-6	SWPP	0.0	0.0				
			Total	6 / 0	235	20.2	235	20.2	0	0.0		FIRM-7	MISO	0.0	0.0				
											MISO	0.0	0.0						
											SWPP	0.0	0.0						
											Total	0.0	0.0						
Jul 06 18:28	TLR 3A	NEXT	2-NH	3 / 0	83	3.5	83	3.5	0	0.0	NONE	ED-2	MISO	0.0	0.0	403	N/A	N/A	N/A
			6-NN	3 / 0	250	25.2	250	25.2	0	0.0		ED-6	SWPP	0.0	0.0				
			Total	6 / 0	313	28.7	313	28.7	0	0.0		FIRM-7	MISO	0.0	0.0				
											MISO	0.0	0.0						
											SWPP	0.0	0.0						
											Total	0.0	0.0						
Jul 06 19:27	TLR 3A	NEXT	2-NH	3 / 0	83	3.5	83	3.5	0	0.0	NONE	ED-2	MISO	0.0	0.0	398	N/A	N/A	N/A
			6-NN	3 / 0	250	28.9	250	28.9	0	0.0		ED-6	SWPP	0.0	0.0				
			Total	6 / 0	313	32.5	313	32.5	0	0.0		FIRM-7	MISO	0.0	0.0				
											MISO	0.0	0.0						
											SWPP	0.0	0.0						
											Total	0.0	0.0						
Jul 06 20:29	TLR 3A	NEXT	2-NH	1 / 0	12	0.6	12	0.6	0	0.0	NONE	ED-2	MISO	0.0	0.0	364	N/A	N/A	N/A
			6-NN	3 / 0	149	22.4	149	22.4	0	0.0		ED-6	SWPP	14.0	14.0				
			Total	4 / 0	161	23.0	161	23.0	0	0.0		FIRM-7	MISO	0.0	0.0				
											MISO	23.1	23.1						
											SWPP	0.0	0.0						
											Total	37.1	37.1						
Jul 06 21:30	TLR 3A	NEXT	2-NH	2 / 0	13	0.7	13	0.7	0	0.0	NONE	ED-2	MISO	0.0	0.0	413	N/A	N/A	N/A
			6-NN	3 / 0	215	29.6	215	29.6	0	0.0		ED-6	SWPP	2.0	2.0				
			Total	5 / 0	228	30.3	228	30.3	0	0.0		FIRM-7	MISO	0.0	0.0				
											MISO	6.0	6.0						
											SWPP	0.0	0.0						
											Total	8.0	8.0						
Jul 06 22:27	TLR 3A	NEXT	2-NH	3 / 0	237	20.8	237	20.8	0	0.0	NONE	ED-2	MISO	0.0	0.0	396	N/A	N/A	N/A
			Total	3 / 0	237	20.8	237	20.8	0	0.0		ED-6	SWPP	10.0	10.0				
											FIRM-7	MISO	0.0	0.0					
											MISO	9.0	9.0						
											SWPP	0.0	0.0						
											Total	19.0	19.0						
Jul 06 23:32	TLR 3A	NEXT	2-NH	2 / 0	143	10.8	143	10.8	0	0.0	NONE	ED-2	MISO	0.0	0.0	419	N/A	N/A	N/A
			Total	2 / 0	143	10.8	143	10.8	0	0.0		ED-6	SWPP	3.0	3.0				
											FIRM-7	MISO	0.0	0.0					
											MISO	22.0	22.0						
											SWPP	0.0	0.0						
											Total	25.0	25.0						

Jul 07 00:28	TLR 3A	NEXT	2-NH Total	3 / 0 3 / 0	249 249	21.7 21.7	249 249	21.7 21.7	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 15.0 0.0 0.0	0.0 0.0 0.0 15.0 0.0 0.0	415	N/A	N/A	N/A
Jul 07 01:18	TLR 1	CURRENT	NONE								NONE	NONE				442	N/A	N/A	N/A
Jul 07 03:25	TLR 1	CURRENT	NONE								NONE	NONE				472	N/A	N/A	N/A
Jul 07 07:36	TLR 3B	CURRENT	2-NH 6-NN Total	2 / 0 1 / 0 3 / 0	196 49 245	17.9 4.8 22.7	196 49 245	17.9 4.8 22.7	0 0 0	0.0 0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 7.0 0.0 37.4 0.0 0.0	0.0 7.0 0.0 37.4 0.0 0.0	410	N/A	N/A	N/A
		NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0				
Jul 07 08:28	TLR 3A	NEXT	2-NH Total	4 / 0 4 / 0	183 183	16.1 16.1	183 183	16.1 16.1	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	378	N/A	N/A	N/A
Jul 07 09:28	TLR 5A	NEXT	2-NH 6-NN Total	3 / 1 1 / 0 4 / 1	213 50 263	17.0 4.9 21.9	213 50 263	17.0 4.9 21.9	44 0 44	2.7 0.0 2.7	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	MISO SWPP MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	336	N/A	N/A	N/A
Jul 07 10:29	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	344	N/A	N/A	N/A
Jul 07 11:27	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	372	N/A	N/A	N/A
Jul 07 12:31	TLR 1	CURRENT	NONE								NONE	NONE				368	N/A	N/A	N/A
Jul 07 17:26	TLR 1	CURRENT	NONE								NONE	NONE				403	N/A	N/A	N/A

Jul 07 17:35	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	179 179	13.9 13.9	179 179	13.9 13.9	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	406	N/A	N/A	N/A
Jul 07 18:26	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	396	N/A	N/A	N/A
Jul 07 19:26	TLR 3A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	404	N/A	N/A	N/A
Jul 07 20:26	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	191 191	14.6 14.6	191 191	14.6 14.6	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 0.4 0.0 0.0 0.0 0.0	0.0 0.4 0.0 0.0 0.0 0.0	385	N/A	N/A	N/A
Jul 07 21:26	TLR 3A	NEXT	2-NH Total	3 / 0 3 / 0	220 220	19.6 19.6	220 220	19.6 19.6	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 9.0 0.0 42.0 0.0 0.0	0.0 9.0 0.0 42.0 0.0 0.0	410	N/A	N/A	N/A
Jul 07 22:27	TLR 3A	NEXT	2-NH Total	2 / 0 2 / 0	115 115	8.6 8.6	115 115	8.6 8.6	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 Total	MISO SWPP MISO SWPP MISO SWPP	0.0 10.0 0.0 51.4 0.0 0.0	0.0 10.0 0.0 51.4 0.0 0.0	403	N/A	N/A	N/A
Jul 07 23:21	TLR 0	CURRENT	NONE								NONE	NONE			368	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	0	0	0	0
2	50	2372	2372	96
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	20	1275	1275	0
7	0	0	0	0
Total	70	3647	3647	96

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	0.0	0.0
Total MISO		0.0	0.0
SWPP	ED-2	69.4	69.4
	ED-6	212.6	212.7
	FIRM-7	0.0	0.0
Total for SWPP		282.0	282.1
Total		282.0	282.1

08/10/2009 11:47:58 (CST)

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	A	B	C	D
1	Reliability Log for July, 6			2009
2	Time	Initials	Comments	
3	1119	RST	Re-issued TLR Level 0 on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
4	1314	RST	Issued TLR Level 3B on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
5	1428	RST	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
6	1527	RST	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
7	1631	RST	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
8	1727	RST	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
9	1827	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
10	1927	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
11	2026	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
12	2129	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
13	2230	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
14	2326	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
15				
16	Reliability Log for July, 7			2009
17	Time	Initials	Comments	
18	0031	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
19	0128	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
20	0218	MRH	Re-issued TLR Level 1 on Gentlmn3 345 Redwilo3 345 Flgt. 6007. NPPD area load reduced, opening up PCB 1110 at RedWiLo per NPPD Op Guides.	
21	0425	MRH	Re-issued TLR Level 1 on Gentlmn3 345 Redwilo3 345 Flgt. 6007	
22	0836	RST	Re-issued TLR Level 3B on Gentlmn3 345 Redwilo3 345 Flgt. 6007	
23	0927	RST	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007	
24	1027	RST	Re-issued TLR Level 5A on Gentlmn3 345 Redwilo3 345 Flgt. 6007. for feasibility and loading.	
25	1129	RST	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
26	1226	RST	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
27	1330	RST	Re-issued TLR Level 1 on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
28	1834	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
29	1926	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
30	2026	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
31	2126	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
32	2228	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
33	2326	MRH	Re-issued TLR Level 3A on Gentlmn3 345 Redwilo3 345 Flgt. 6007.	
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