

SPP TLR 5 Investigation Report
Flowgate 15323
(Harrington – Nichols 230 kV for loss of Harrington – Nichols 230 kV)
(TEMPORARY08)
TLR Level 5: September 18, 2008 – September 19, 2008
Report Issued: October 21, 2008

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 15323 on September 18, 2008. Flowgate 15323 is an SPP flowgate. The Level 5 TLR was in effect from 22:00 on September 18 until 2:00 CST on September 19, then from 6:05 until 9:00 CST, and 19:00 until 20:00 on September 19, 2008. Projected post-contingent flows on the Harrington – Nichols 230 kV line exceeded the SOL. The flowgate was created due to the scheduled outage of the Harrington – Pringle 230 kV line. The monitored element on this flowgate has a dynamic temperature dependent rating. TLR was issued dependent on this calculated rating.

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 617 MVA. Flow on the Limiting Element was 313 MVA. Flow on the Contingent Element was 303 MVA. The LODF was approximately 97%. Post-contingent flow on the Limiting Element was approximately 605 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 3-7.

4. Transmission and generation outages or changes from prediction that may have contributed.

There were no unplanned outages.

5. Procedures implemented prior to hold/curtailment.

Curtailed non-firm transactions. Next hour flows for the event occasionally predicted that not enough non-firm could be curtailed 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 8 and 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.

In the next day process, we did not see an issue with this flowgate, based off of the peak study.

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 the temporary outage of the Harrington – Pringle 230 kV line. Due to this situation, no actions were taken to avoid future hold/curtailments.

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 3-7.

TLR Event History

15323 - Temporary 08 Harrington - Nichols 230 kV ftlo Harrington - Nichols 230 kV

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	09/18/2008 10:00	09/18/2008 09:28	09/18/2008 09:27:40	10.0	7.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 11:00	09/18/2008 10:26	09/18/2008 10:25:53	10.0	7.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 12:00	09/18/2008 11:26	09/18/2008 11:25:43	6.0	3.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 13:00	09/18/2008 12:27	09/18/2008 12:26:45	20.0	17.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 14:00	09/18/2008 13:27	09/18/2008 13:27:29	25.0	22.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 15:00	09/18/2008 14:29	09/18/2008 14:28:47	11.0	8.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 16:00	09/18/2008 15:28	09/18/2008 15:28:00	7.0	4.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 17:00	09/18/2008 16:28	09/18/2008 16:27:55	0.0	0.0	0.0	0	0
SUPERSEDED	3A	09/18/2008 18:00	09/18/2008 17:29	09/18/2008 17:28:38	16.0	13.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 19:00	09/18/2008 18:32	09/18/2008 18:31:42	45.0	42.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 20:00	09/18/2008 19:30	09/18/2008 19:29:32	49.0	46.4	2.6	1	50
SUPERSEDED	3A	09/18/2008 21:00	09/18/2008 20:30	09/18/2008 20:29:58	64.0	64.0	0.0	0	0
SUPERSEDED	5A	09/18/2008 22:00	09/18/2008 21:30	09/18/2008 21:29:17	74.0	0.0	74.0	0	0
SUPERSEDED	5A	09/18/2008 23:00	09/18/2008 22:29	09/18/2008 22:28:49	94.0	0.0	94.0	0	0
SUPERSEDED	5A	09/19/2008 00:00	09/18/2008 23:23	09/18/2008 23:22:45	78.0	0.0	78.0	0	0
SUPERSEDED	5A	09/19/2008 00:00	09/18/2008 23:28	09/18/2008 23:27:58	80.0	0.0	80.0	0	0
SUPERSEDED	5A	09/19/2008 01:00	09/19/2008 00:27	09/19/2008 00:27:10	106.0	0.0	106.0	0	0
SUPERSEDED	3A	09/19/2008 02:00	09/19/2008 01:27	09/19/2008 01:26:39	120.0	120.0	0.0	0	0
SUPERSEDED	3A	09/19/2008 03:00	09/19/2008 02:29	09/19/2008 02:28:40	40.0	40.0	0.0	0	0
SUPERSEDED	3A	09/19/2008 04:00	09/19/2008 03:29	09/19/2008 03:28:54	20.0	20.0	0.0	0	0
SUPERSEDED	3A	09/19/2008 05:00	09/19/2008 04:28	09/19/2008 04:28:18	0.0	0.0	0.0	0	0
SUPERSEDED	3A	09/19/2008 06:00	09/19/2008 05:27	09/19/2008 05:27:27	25.0	23.7	1.3	1	25
SUPERSEDED	5A	09/19/2008 06:05	09/19/2008 05:51	09/19/2008 05:50:38	24.0	0.0	24.0	1	25
SUPERSEDED	5A	09/19/2008 07:00	09/19/2008 06:29	09/19/2008 06:28:21	42.0	0.0	42.0	0	0
SUPERSEDED	5A	09/19/2008 08:00	09/19/2008 07:27	09/19/2008 07:26:57	23.0	0.0	23.0	0	0
SUPERSEDED	3A	09/19/2008 09:00	09/19/2008 08:26	09/19/2008 08:25:56	23.0	23.0	0.0	0	0
SUPERSEDED	3A	09/19/2008 10:00	09/19/2008 09:26	09/19/2008 09:25:57	25.0	25.0	0.0	0	0
SUPERSEDED	3A	09/19/2008 11:00	09/19/2008 10:29	09/19/2008 10:28:42	47.0	45.7	1.3	1	25
SUPERSEDED	3A	09/19/2008 12:00	09/19/2008 11:27	09/19/2008 11:27:08	21.0	19.7	1.3	1	25
SUPERSEDED	3A	09/19/2008 13:00	09/19/2008 12:28	09/19/2008 12:28:01	20.0	18.7	1.3	1	25
SUPERSEDED	3A	09/19/2008 14:00	09/19/2008 13:28	09/19/2008 13:28:04	26.0	24.7	1.3	1	25
SUPERSEDED	3A	09/19/2008 15:00	09/19/2008 14:29	09/19/2008 14:28:56	64.0	62.7	1.3	1	25
SUPERSEDED	3A	09/19/2008 16:00	09/19/2008 15:30	09/19/2008 15:29:45	42.0	40.7	1.3	1	25
SUPERSEDED	3A	09/19/2008 17:00	09/19/2008 16:30	09/19/2008 16:30:27	20.0	18.7	1.3	1	25
SUPERSEDED	3A	09/19/2008 18:00	09/19/2008 17:31	09/19/2008 17:30:33	28.0	26.7	1.3	1	25
SUPERSEDED	5A	09/19/2008 19:00	09/19/2008 18:36	09/19/2008 18:36:12	23.0	0.0	23.0	1	25
SUPERSEDED	3A	09/19/2008 20:00	09/19/2008 19:35	09/19/2008 19:34:46	0.0	0.0	0.0	0	0
TERMINATED	0	09/19/2008 20:15	09/19/2008 20:01	09/19/2008 20:00:41	0.0	0.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_15323_20080918_1000.htm

Incident:	SWPP_15323_20080918_1000	Date: 09/18/2008	Reliability Coordinator: SWPP
Initial Conditions:	Increasing flow		
Flowgate:	15323 - Temporary 08 Harrington - Nich...	Rating: 617	LODF: 96.60%
TLR Direction:	Normal		
Effective StartTime:	09/18/2008 10:00	Effective EndTime: 09/19/2008 20:15	TLR Duration: 34 Hours and 15 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												
Sep 18 09:28	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	NONE	NONE	NONE	NONE	315	608	304	N/A				
Sep 18 10:26	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	311	600	300	N/A			
Sep 18 11:26	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	314	605	302	N/A			
Sep 18 12:27	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	303	585	292	N/A			
Sep 18 13:27	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	302	583	291	N/A			
Sep 18 14:29	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	312	602	301	N/A			
Sep 18 15:28	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	309	596	298	N/A			
Sep 18 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	314	607	304	N/A			
Sep 18 17:29	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	311	600	300	N/A			

Sep 18 18:32	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	327	632	316	N/A
Sep 18 19:30	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	50 50	2.6 2.6	50 50	2.6 2.6	0 0	0.0 0.0	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	317	612	306	N/A
Sep 18 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	318	615	308	N/A
Sep 18 21:30	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 74.0 0.0	0.0 0.0 74.0 0.0	313	605	303	N/A
Sep 18 22:29	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 94.0 0.0	0.0 0.0 94.0 0.0	314	607	304	N/A
Sep 18 23:23	TLR 5A PRELIM	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 78.0 0.0	0.0 0.0 0.0 0.0	311	602	302	N/A
Sep 18 23:28	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 80.0 0.0	0.0 0.0 80.0 0.0	311	602	302	N/A
Sep 19 00:27	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 106.0 0.0	0.0 0.0 106.0 0.0	305	590	296	N/A
Sep 19 01:27	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	305	589	295	N/A
Sep 19 02:29	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	306	591	296	N/A
Sep 19 03:29	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	313	603	301	N/A
Sep 19 04:28	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	319	616	308	N/A

Sep 19 05:27	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	318	614	307	N/A
Sep 19 05:51	TLR 5A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 22.7 0.0 22.7	0.0 0.0 22.7 0.0 22.7	322	622	311	N/A
Sep 19 06:29	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 42.0 0.0 42.0	0.0 0.0 42.0 0.0 42.0	321	620	310	N/A
Sep 19 07:27	TLR 5A	NEXT	NONE								NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 23.0 0.0 23.0	0.0 0.0 23.0 0.0 23.0	311	602	302	N/A
Sep 19 08:26	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	307	593	297	N/A
Sep 19 09:26	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	309	596	298	N/A
Sep 19 10:29	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	300	579	289	N/A
Sep 19 11:27	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	309	596	298	N/A
Sep 19 12:28	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	300	579	289	N/A
Sep 19 13:28	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	298	576	288	N/A
Sep 19 14:29	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	302	583	291	N/A
Sep 19 15:30	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	316	611	306	N/A

Sep 19 16:30	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	310	598	299	N/A
Sep 19 17:31	TLR 3A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	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	314	607	304	N/A
Sep 19 18:36	TLR 5A	NEXT	6-NN Total	1 / 0 1 / 0	25 25	1.3 1.3	25 25	1.3 1.3	0 0	0.0 0.0	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT Total	SWPP SWPP SWPP SWPP	0.0 0.0 21.7 0.0 21.7	0.0 0.0 21.7 0.0 21.7	309	596	296	for feasibility
Sep 19 19:35	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	304	587	293	N/A
Sep 19 20:01	TLR 0	CURRENT	NONE								NONE	NONE				295	570	285	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	21	775	775	0
7	0	0	0	0
Total	21	775	775	0

TLR Market Flow Totals

Market	Type	Market Relief	
		IDC MW	RC Ackn MW
SWPP	ED-2	0.0	0.0
	ED-6	0.0	0.0
	FIRM-7	541.4	541.4
Total for SWPP		541.4	541.4
Total		541.4	541.4

	A	B	C	D
1	Reliability Log for September, 18			2008
2	Time	Initials	Comments	
15	1027	GG	Issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
19	1125	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
22	1225	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
25	1326	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
28	1427	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
33	1528	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
36	1628	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
39	1727		Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
42	1828	LWB	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
44	1931	LWB	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
46	2029	LWB	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
48	2129	LWB	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
51	2229	LWB	Re-issued TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
55	2328	LWB	Re-issued TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	

	A	B	C	D
1	Reliability Log for September, 19			2008
2	Time	Initials	Comments	
5	0022	LWB	Issued preliminary TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
6	0027	LWB	Re-issued TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
7	0127	LWB	Re-issued TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
9	0226	LWB	Issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
12	0328	LWB	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
14	0428	LWB	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
16	0528	LWB	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
20	0627	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
23	0650	GG	Re-issued TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
27	0728	GG	Re-issued TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
29	0826	GG	Re-issued TLR level 5A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv for feasibility.	
30	0925	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
32	1025	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
36	1128	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
40	1227	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
43	1329	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
46	1428	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
51	1528	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
57	1629	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
62	1730	GG	Re-issued TLR level 3A on Temporary 8 Flgt#15323, Harrington - Nichols 230kv flo Harrington - Nichols 230kv.	
69	1830	RST	Re-issued TLR level 3A on Temp. 8-Harrington-Nichols 230kv flo Harrington-Nichols 230kv. Flgt#15323	
73	1936	"	Re-issued TLR level 5A on Temp. 8-Harrington-Nichols 230kv flo Harrington-Nichols 230kv. Flgt#15323. Feasibility.	
77	2034	"	Re-issued TLR level 3A on Temp. 8-Harrington-Nichols 230kv flo Harrington-Nichols 230kv. Flgt#15323.	
78	2100	"	Re-issued TLR level 0 on Temp. 8-Harrington-Nichols 230kv flo Harrington-Nichols 230kv. Flgt#15323. Harrington-Pringle line returned to service at 2050 for the weekend.	
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15323 9-18-08 to 9-19-08

