SPP TLR 5 Investigation Report
Flowgate 15765
(Temp 07 Kress-Hale Co. 115kV for the loss of Swisher-Tuco 230kV)
(Temp 07)
TLR Level 5: May 12-14, 2009
Report Issued: June 2, 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 events that occurred on Flowgate 15765 on May 12, 2009 to May 14, 2009. Flowgate 15765 is an SPP flowgate. The Level 5 TLR was in effect from 5:00 on May 12 until 11:00 CST on May 13, 2009 and again from 18:00 on May 13 until 7:00 on May 14. Projected post-contingent flows on Kress-Hale Co. 115kV exceeded the SOL. The 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 a 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 120 MVA. Flow on the Limiting Element was 45 MVA. Flow on the Contingent Element was 136 MVA. The LODF was approximately 36%. Post-contingent flow on the Limiting Element was approximately 94 MVA. The balancing authority, however, had been reporting post-contingent loading on the Limiting Element approximately 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.
TLRs levels, timing and relief requested amounts are shown in the Event History and NERC TLR Log on pages 3-13.

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% at the time the Level 5 TLR was issued. 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 14. 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 the 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 15.

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 in order to obtain sufficient relief to reduce overloads. The facility has been uprated recently but not to a level that would eliminate all loading issues.

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 3-13.

TLR Event History

15765 - Temp 07 Kress-Hale Co. 115kV flo Swisher-Tuco 230kV

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	05/12/2009 03:00	05/12/2009 02:32	05/12/2009 02:31:45	22.0	22.0	0.0	0	0
SUPERSEDED	3A	05/12/2009 04:00	05/12/2009 03:30	05/12/2009 03:29:45	29.0	29.0	0.0	0	0
SUPERSEDED	5A	05/12/2009 05:00	05/12/2009 04:33	05/12/2009 04:32:25	26.0	0.0	26.0	0	0
SUPERSEDED	5A	05/12/2009 06:00	05/12/2009 05:34	05/12/2009 05:34:17	21.0	0.0	21.0	0	0
SUPERSEDED	5A	05/12/2009 07:00	05/12/2009 06:27	05/12/2009 06:26:58	17.0	0.0	17.0	0	0
SUPERSEDED	5A	05/12/2009 08:00	05/12/2009 07:29	05/12/2009 07:28:57	25.0	0.0	25.0	0	0
SUPERSEDED	5A	05/12/2009 09:00	05/12/2009 08:28	05/12/2009 08:28:03	17.0	0.0	17.0	0	0
SUPERSEDED	5A	05/12/2009 10:00	05/12/2009 09:31	05/12/2009 09:31:05	18.0	0.0	18.0	0	0
SUPERSEDED	5A	05/12/2009 11:00	05/12/2009 10:32	05/12/2009 10:31:38	20.0	0.0	20.0	0	0
SUPERSEDED	5A	05/12/2009 12:00	05/12/2009 11:27	05/12/2009 11:27:26	26.0	0.0	26.0	0	0
SUPERSEDED	5A	05/12/2009 13:00	05/12/2009 12:27	05/12/2009 12:27:11	25.0	0.0	25.0	0	0
SUPERSEDED	5A	05/12/2009 14:00	05/12/2009 13:29	05/12/2009 13:28:47	22.0	0.0	22.0	0	0
SUPERSEDED	5A	05/12/2009 15:00	05/12/2009 14:32	05/12/2009 14:31:48	18.0	0.0	18.0	0	0
SUPERSEDED	5A	05/12/2009 16:00	05/12/2009 15:36	05/12/2009 15:35:45	25.0	0.0	25.0	0	0
SUPERSEDED	5A	05/12/2009 17:00	05/12/2009 16:33	05/12/2009 16:33:07	27.0	0.0	27.0	0	0
SUPERSEDED	5A	05/12/2009 18:00	05/12/2009 17:39	05/12/2009 17:38:33	18.0	0.0	18.0	0	0
SUPERSEDED	5A	05/12/2009 19:00	05/12/2009 18:30	05/12/2009 18:30:19	26.0	0.0	26.0	0	0
SUPERSEDED	5A	05/12/2009 20:00	05/12/2009 19:31	05/12/2009 19:31:36	25.0	0.0	25.0	0	0
SUPERSEDED	5A	05/12/2009 21:00	05/12/2009 20:31	05/12/2009 20:31:26	38.0	0.0	38.0	0	0
SUPERSEDED	5A	05/12/2009 22:00	05/12/2009 21:34	05/12/2009 21:34:19	29.0	0.0	29.0	0	0
SUPERSEDED	5A	05/12/2009 23:00	05/12/2009 22:32	05/12/2009 22:32:28	31.0	0.0	31.0	0	0
SUPERSEDED	5A	05/13/2009 00:00	05/12/2009 23:28	05/12/2009 23:27:53	29.0	0.0	29.0	0	0
SUPERSEDED	5A	05/13/2009 01:00	05/13/2009 00:26	05/13/2009 00:26:14	28.0	0.0	28.0	0	0
SUPERSEDED	5A	05/13/2009 02:00	05/13/2009 01:32	05/13/2009 01:32:11	22.0	0.0	22.0	0	0
SUPERSEDED	5A	05/13/2009 03:00	05/13/2009 02:26	05/13/2009 02:26:22	24.0	0.0	24.0	0	0
SUPERSEDED	5A	05/13/2009 04:00	05/13/2009 03:28	05/13/2009 03:27:50	25.0	0.0	25.0	0	0
SUPERSEDED	5A	05/13/2009 05:00	05/13/2009 04:29	05/13/2009 04:28:54	28.0	0.0	28.0	0	0
SUPERSEDED	5A	05/13/2009 06:00	05/13/2009 05:27	05/13/2009 05:27:18	21.0	0.0	21.0	0	0
SUPERSEDED	5A	05/13/2009 07:00	05/13/2009 06:30	05/13/2009 06:29:44	0.0	0.0	0.0	0	0
SUPERSEDED	5A	05/13/2009 08:00	05/13/2009 07:33	05/13/2009 07:33:12	16.0	0.0	16.0	0	0
SUPERSEDED	5A	05/13/2009 09:00	05/13/2009 08:27	05/13/2009 08:27:03	16.0	0.0	16.0	0	0
SUPERSEDED	5A	05/13/2009 10:00	05/13/2009 09:27	05/13/2009 09:27:03	21.0	0.0	21.0	0	0
SUPERSEDED	3A	05/13/2009 11:00	05/13/2009 10:29	05/13/2009 10:29:33	21.0	21.0	0.0	0	0
SUPERSEDED	3A	05/13/2009 12:00	05/13/2009 11:27	05/13/2009 11:26:53	11.0	11.0	0.0	0	0
SUPERSEDED	3A	05/13/2009 13:00	05/13/2009 12:28	05/13/2009 12:27:50	25.0	25.0	0.0	0	0
...									

SUPERSEDED	3A	05/13/2009 14:00	05/13/2009 13:33	05/13/2009 13:33:22	28.0	28.0	0.0	0	0
SUPERSEDED	3A	05/13/2009 15:00	05/13/2009 14:32	05/13/2009 14:31:49	31.0	31.0	0.0	0	0
SUPERSEDED	3A	05/13/2009 16:00	05/13/2009 15:31	05/13/2009 15:30:46	24.0	24.0	0.0	0	0
SUPERSEDED	3A	05/13/2009 17:00	05/13/2009 16:35	05/13/2009 16:35:16	31.0	31.0	0.0	0	0
SUPERSEDED	5A	05/13/2009 18:00	05/13/2009 17:30	05/13/2009 17:29:46	24.0	0.0	24.0	0	0
SUPERSEDED	5A	05/13/2009 19:00	05/13/2009 18:28	05/13/2009 18:28:27	24.0	0.0	24.0	0	0
SUPERSEDED	5A	05/13/2009 20:00	05/13/2009 19:29	05/13/2009 19:28:35	28.0	0.0	28.0	0	0
SUPERSEDED	5A	05/13/2009 21:00	05/13/2009 20:28	05/13/2009 20:28:30	32.0	0.0	32.0	0	0
SUPERSEDED	5A	05/13/2009 22:00	05/13/2009 21:30	05/13/2009 21:29:40	24.0	0.0	24.0	0	0
SUPERSEDED	5A	05/13/2009 23:00	05/13/2009 22:33	05/13/2009 22:32:43	37.0	0.0	37.0	0	0
SUPERSEDED	5A	05/14/2009 00:00	05/13/2009 23:30	05/13/2009 23:30:03	31.0	0.0	31.0	0	0
SUPERSEDED	5A	05/14/2009 01:00	05/14/2009 00:31	05/14/2009 00:31:20	28.0	0.0	28.0	0	0
SUPERSEDED	5A	05/14/2009 02:00	05/14/2009 01:28	05/14/2009 01:28:17	23.0	0.0	23.0	0	0
SUPERSEDED	5A	05/14/2009 03:00	05/14/2009 02:29	05/14/2009 02:28:39	19.0	0.0	19.0	0	0
SUPERSEDED	5A	05/14/2009 04:00	05/14/2009 03:29	05/14/2009 03:28:40	23.0	0.0	23.0	0	0
SUPERSEDED	5A	05/14/2009 05:00	05/14/2009 04:29	05/14/2009 04:29:31	18.0	0.0	18.0	0	0
SUPERSEDED	5A	05/14/2009 06:00	05/14/2009 05:42	05/14/2009 05:42:00	0.0	0.0	0.0	0	0
SUPERSEDED	3A	05/14/2009 07:00	05/14/2009 06:32	05/14/2009 06:32:04	32.0	32.0	0.0	0	0
SUPERSEDED	3A	05/14/2009 08:00	05/14/2009 07:39	05/14/2009 07:39:03	40.0	40.0	0.0	0	0
SUPERSEDED	3A	05/14/2009 09:00	05/14/2009 08:32	05/14/2009 08:32:38	36.0	36.0	0.0	0	0

Event Summary

FILE SAVED AS: SWPP_15765_20090510_0520.htm

Incident:	SWPP_15765_20090510_0520	Date: 05/10/2009	Reliability Coordinator: SWPP
Initial Conditions:	loading		
Flowgate:	15765 - Temp 07 Kress-Hale Co. 115kV f...	Rating: 96	LODF: 36.33%
TLR Direction:	Normal		
Effective StartTime:	05/10/2009 05:20	Effective EndTime: 05/14/2009 23:40	TLR Duration: 114 Hours and 20 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule							NNL Relief			Market Relief				Flow		Cont. 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.		
					MW	Relief	MW	Relief	MW	Relief											

...

May 12 03:30	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**	40	86	127	N/A
May 12 04:33	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 26.0 0.0 **26.0**	0.0 0.0 26.0 0.0 **26.0**	45	94	136	for feasibility
May 12 05:34	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 21.0 0.0 **21.0**	0.0 0.0 21.0 0.0 **21.0**	44	92	134	N/A
May 12 06:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 17.0 0.0 **17.0**	0.0 0.0 17.0 0.0 **17.0**	43	90	132	N/A
May 12 07:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 25.0 0.0 **25.0**	0.0 0.0 25.0 0.0 **25.0**	42	90	134	N/A
May 12 08:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 17.0 0.0 **17.0**	0.0 0.0 17.0 0.0 **17.0**	44	93	135	N/A
May 12 09:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 18.0 0.0 **18.0**	0.0 0.0 18.0 0.0 **18.0**	44	91	132	N/A

May 12 10:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 20.0 0.0 **20.0**	0.0 0.0 20.0 0.0 **20.0**	43	89	128	N/A
May 12 11:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 26.0 0.0 **26.0**	0.0 0.0 26.0 0.0 **26.0**	45	90	126	N/A
May 12 12:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 25.0 0.0 **25.0**	0.0 0.0 25.0 0.0 **25.0**	45	89	123	N/A
May 12 13:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 22.0 0.0 **22.0**	0.0 0.0 22.0 0.0 **22.0**	46	90	123	N/A
May 12 14:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 18.0 0.0 **18.0**	0.0 0.0 18.0 0.0 **18.0**	46	90	122	N/A
May 12 15:36	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 25.0 0.0 **25.0**	0.0 0.0 25.0 0.0 **25.0**	45	89	122	N/A
May 12 16:33	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 27.0 0.0 **27.0**	0.0 0.0 27.0 0.0 **27.0**	48	90	118	N/A
May 12 17:39	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 18.0 0.0 **18.0**	0.0 0.0 18.0 0.0 **18.0**	49	92	119	N/A
May 12 18:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 26.0 0.0 **26.0**	0.0 0.0 26.0 0.0 **26.0**	47	94	131	N/A
May 12 19:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 25.0 0.0 **25.0**	0.0 0.0 25.0 0.0 **25.0**	49	94	126	N/A
May 12 20:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 38.0 0.0 **38.0**	0.0 0.0 38.0 0.0 **38.0**	45	92	130	N/A

May 12 21:34	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 29.0 0.0 **29.0**	0.0 0.0 29.0 0.0 **29.0**	40	90	139	N/A
May 12 22:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 31.0 0.0 **31.0**	0.0 0.0 31.0 0.0 **31.0**	35	86	141	N/A
May 12 23:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 29.0 0.0 **29.0**	0.0 0.0 29.0 0.0 **29.0**	38	85	131	N/A
May 13 00:26	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 28.0 0.0 **28.0**	0.0 0.0 28.0 0.0 **28.0**	39	88	135	N/A
May 13 01:32	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 22.0 0.0 **22.0**	0.0 0.0 22.0 0.0 **22.0**	38	86	134	N/A
May 13 02:26	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 24.0 0.0 **24.0**	0.0 0.0 24.0 0.0 **24.0**	36	85	137	N/A
May 13 03:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 25.0 0.0 **25.0**	0.0 0.0 25.0 0.0 **25.0**	36	85	137	N/A
May 13 04:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 28.0 0.0 **28.0**	0.0 0.0 28.0 0.0 **28.0**	36	85	136	N/A
May 13 05:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 21.0 0.0 **21.0**	0.0 0.0 21.0 0.0 **21.0**	40	86	127	N/A
May 13 06:30	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**	42	87	126	N/A
May 13 07:33	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 16.0 0.0 **16.0**	0.0 0.0 16.0 0.0 **16.0**	31	80	136	N/A

May 13 09:27	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 21.0 0.0 **21.0**	0.0 0.0 21.0 0.0 **21.0**	42	84	117	N/A
May 13 10:29	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**	44	87	119	N/A
May 13 11:27	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**	44	87	121	N/A
				...								
May 13 16:35	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**	46	102	155	N/A
May 13 17:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 24.0 0.0 **24.0**	0.0 0.0 24.0 0.0 **24.0**	41	98	157	for feasibility
May 13 18:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 24.0 0.0 **24.0**	0.0 0.0 24.0 0.0 **24.0**	38	92	150	N/A
May 13 19:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 28.0 0.0 **28.0**	0.0 0.0 28.0 0.0 **28.0**	37	90	148	N/A
May 13 20:28	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 32.0 0.0 **32.0**	0.0 0.0 32.0 0.0 **32.0**	38	87	137	N/A
May 13 21:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 24.0 0.0 **24.0**	0.0 0.0 24.0 0.0 **24.0**	37	85	134	N/A
May 13 22:33	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 37.0 0.0 **37.0**	0.0 0.0 37.0 0.0 **37.0**	36	82	127	N/A
May 13 23:30	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 31.0 0.0 **31.0**	0.0 0.0 31.0 0.0 **31.0**	35	76	115	N/A
May 14 00:31	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 28.0 0.0 **28.0**	0.0 0.0 28.0 0.0 **28.0**	34	79	126	N/A

May 14 01:28	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**	35	82	130	N/A
May 14 02:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 19.0 0.0 **19.0**	0.0 0.0 19.0 0.0 **19.0**	36	87	143	N/A
May 14 03:29	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**	35	86	141	N/A
May 14 04:29	TLR 5A	NEXT	NONE	NONE	ED-2 ED-6 FIRM-7 FIRM-CREDIT **Total**	SWPP SWPP SWPP SWPP	0.0 0.0 18.0 0.0 **18.0**	0.0 0.0 18.0 0.0 **18.0**	36	82	129	N/A
May 14 05:42	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**	40	86	127	N/A
May 14 06:32	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**	38	83	124	N/A
May 14 07:39	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**	36	83	132	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
3	0	0	0	0
6	0	0	0	0
7	0	0	0	0
1	0	0	0	0
4	0	0	0	0
2	0	0	0	0
5	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	0.0	0.0
	FIRM-7	995.0	995.0
Total for SWPP		995.0	995.0
	Total	**995.0**	**995.0**

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OATI IDC Support Phone: 763-201-2010 Fax: 763-553-2813
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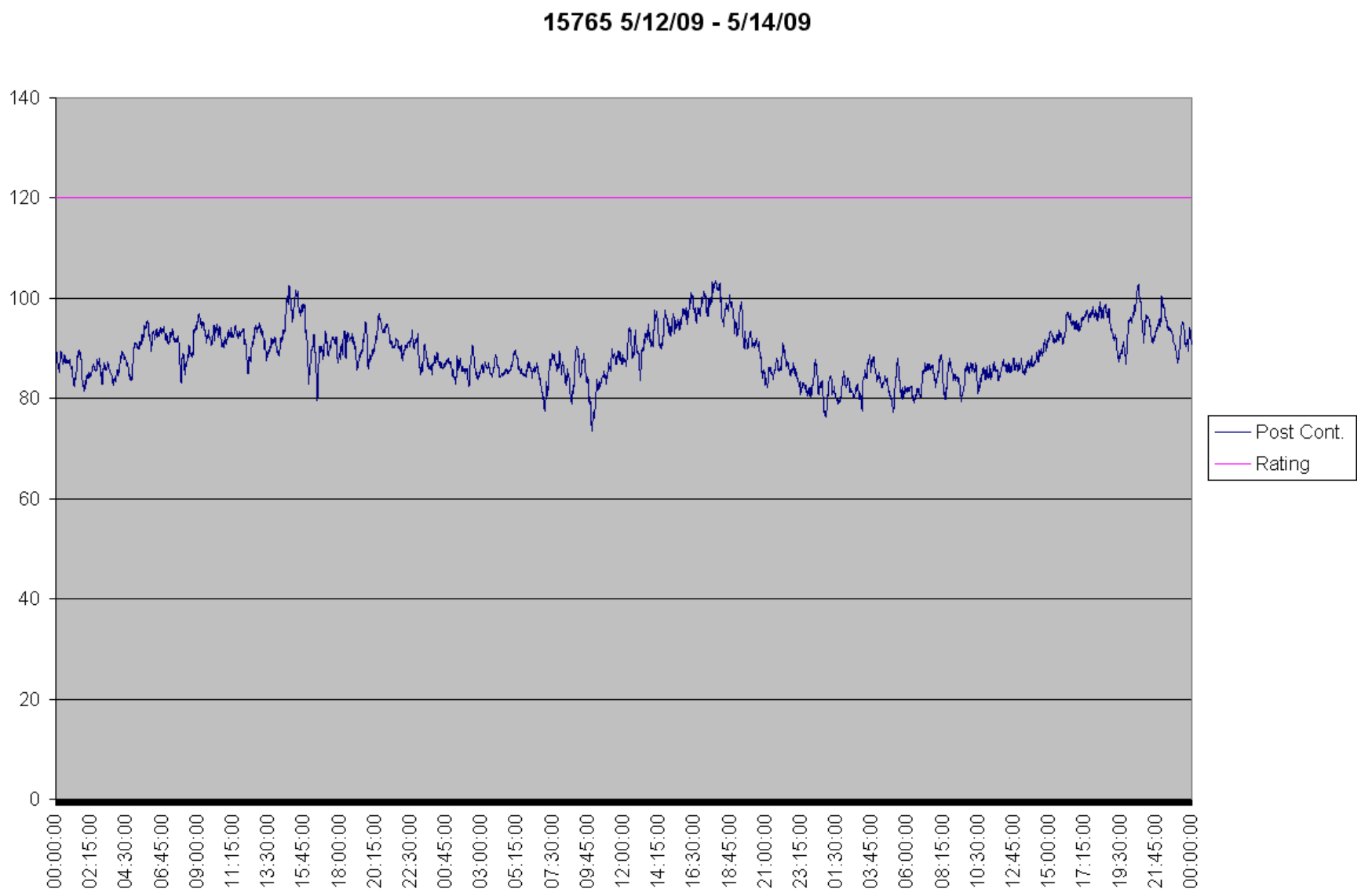
A	B	C	D
		Reliability Log for May, 12	**2009**
Time	Initials	Comments	
0026	RST	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765,	
0127	RST	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765,	
0226	RST	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765,	
0331	RST	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765,	
0429	RST	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765,	
0532	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0634	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0726	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0828	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0928	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1031	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1131	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1227	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1327	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1428	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1531	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1635	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1733	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1838	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1930	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2031	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2131	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2234	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2332	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	

A	B	C	D
		Reliability Log for May, 13	**2009**
Time	Initials	Comments	
0027	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0126	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0232	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0326	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0427	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0528	RST	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0627	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0729	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0833	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0927	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1027	AH	Re-Issued TLR level 5A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1129	AH	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1226	AH	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1327	AH	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1433	AH	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1531	AH	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1630	AH	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1735	AH	Re-Issued TLR level 3A on Temp7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1829	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1928	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2028	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2128	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2229	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
2332	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	

A	B	C	D
		Reliability Log for May, 14	**2009**
Time	Initials	Comments	
0030	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0131	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0228	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0328	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0428	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0529	RST	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0642	LWB	Re-Issued TLR level 5A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0732	LWB	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0839	LWB	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
0932	LWB	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1036	LWB	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1132	LWB	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1227	LWB	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1327	LWB	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1428	WRG	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1527	WRG	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1628	WRG	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1728	WRG	Re-Issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	
1826	RST	Re-issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
1926	RST	Re-issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
2026	RST	Re-issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
2126	RST	Re-issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
2226	RST	Re-issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765.	
2326	RST	Re-issued TLR level 3A on Temp 7 Kress - Hale 115kV flo Swisher - Tuco 230kV #15765. Feasibility	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