MISO ICTE Reliability: TLR 5 Event Analysis Report

Event Date: **1/17/2013**

Flowgate ID/Name: **FG 17222 Vienna – Ruston East 115kV flo Eldorado – Sterlington 500kV**

Metrics Tables:

TLR Date	1/17/2013 17:00
Return to Zero	1/18/2013 03:00
Duration	10 hours
Hours in TLR 5	8 hours
Highest Level	5A
MW Cut	3596
Firm	3413
Non-Firm	183

NNL:

EES		LEPA	
AECI		ONT	
AMIL		PJM	
CLEC		SMEE	
CSWS	2	SOCO	
EDE		SPA	
LAFA		TVA	
LAGN		WSCS	

Flowgate information at the time of the TLR 5 issuance:

Line Rating: 193 LODF: 0.1436 PC MVA: 222 Contingent Element: 1313 Monitored Element: 34

Root Cause:

This event was caused by flows increasing across the Entergy system in a north to south primary direction and for the loss of El Dorado – Sterlington the flows would flow west to east across the Vienna – Ruston East 115kV line heading toward the Amite south load pocket. Contributing to the increased flow on this flowgate was the unplanned outage of the Grand Gulf Unit 1, was an increase in generation output that has lower sensitivities outside of the constrained area and reduced generation in the Amite South load pockets.

Planned or Unplanned Generation Outage(s): (none, if blank)

Type:
Unplanned Grand Gulf Unit 1 tripped on 1/14/2013 21:46

Planned or Unplanned Transmission Outage(s): (none, if blank)

Type:

Tags Excluded from the TLR (The following tags were excluded for Reliability)

None

Internal Non-Firm Tags that were curtailed: No Internal Non-Firm tags were curtailed

AFC Limitations before, during and after the TLR Event: This flowgate is not in the AFC process and does not have AFC's calculated

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Event History:

TLR Event History

17222 - Vienna-RustonE 115Kv ftlo Eldorado-Sterlington 500Kv

	Status	TLR	Effective Time	Confirmation Time	Run Time	Flow Change Requested	Requested Relief	Remaining Relief	Relief Provided	Total Cuts			RC Ack Cuts			MF	NNL
										Tags	MW	Relief	Tags	MW	Relief		
NH	SUPERSEDED	3A	01/17/2013 17:00	01/17/2013 16:31	01/17/2013 16:28	-15.0	21.0	15.2	6	2	103	6	2	103	6	0	0
NH	SUPERSEDED	3A	01/17/2013 18:00	01/17/2013 17:31	01/17/2013 17:30	+5.0	12.0	12.0	0.0	0	0	0	0	0	0	0	0
NH	SUPERSEDED	5A	01/17/2013 19:00	01/17/2013 18:30	01/17/2013 18:27	-25.0	23.0	0.0	23	6	388	23	6	388	23	0	0
NH	SUPERSEDED	5A	01/17/2013 20:00	01/17/2013 19:31	01/17/2013 19:30	-25.0	55.0	0.0	55	7	933	55	7	933	55	0	1
NH	SUPERSEDED	5A	01/17/2013 20:00	01/17/2013 19:41	01/17/2013 19:41	-50.0	77.0	0.0	77	7	1305	76	7	1305	76	0	1
NH	SUPERSEDED	5A	01/17/2013 22:00	01/17/2013 21:26	01/17/2013 21:26	+5.0	30.0	0.0	30	6	507	30	6	507	30	0	0
NH	SUPERSEDED	5A	01/17/2013 23:00	01/17/2013 22:26	01/17/2013 22:26	+25.0	0.0	0.0	2	1	40	2	1	40	2	0	0
NH	SUPERSEDED	5A	01/18/2013 00:00	01/17/2013 23:26	01/17/2013 23:25	-10.0	0.0	0.0	2	1	40	2	1	40	2	0	0
NH	SUPERSEDED	5A	01/18/2013 01:00	01/18/2013 00:32	01/18/2013 00:32	0.0	16.0	0.0	16	9	280	16	9	280	16	0	0
NH	SUPERSEDED	5A	01/18/2013 02:00	01/18/2013 01:32	01/18/2013 01:31	+25.0	0.0	0.0	1	2	9	1	0	0	0	0	0
NH	TERMINATED	0	01/18/2013 03:00	01/18/2013 02:26	01/18/2013 02:26	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0

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Event Summary:

Event Summary

FILE SAVED AS: MISO_17222_20130117_1600.htm

Incident:	MISO_17222_20130117_1600	Date: 01/17/2013 (EST)	Reliability Coordinator: MISO
Initial Conditions:	N/A		
Flowgate:	17222 - Vienna-RustonE 115Kv ftlo E...	Rating: 0	LODF: 14.36%
TLR Direction:	Normal		
Effective StartTime:	01/17/2013 17:00 (EST)	Effective EndTime: 01/18/2013 03:00 (EST)	TLR Duration: 10 Hours and 0 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Priority	Schedule							NNL Relief			Market Relief				Flow			
				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	TLR Action Comments
					MW	Relief	MW	Relief	MW	Relief											
Jan 17 16:31 (EST)	TLR 3A	NEXT	1-NS	2 / 0	103	5.8	103	5.8	0	0.0	NONE			NONE				0	0	0	N/A
			Total	**2 / 0**	**103**	**5.8**	**103**	**5.8**	**0**	**0.0**											
Jan 17 17:31 (EST)	TLR 3A	NEXT	NONE								NONE			NONE				0	0	0	N/A
Jan 17 18:30 (EST)	TLR 5A	NEXT	7-F	6 / 0	388	22.9	388	22.9	0	0.0	NONE			NONE				0	0	0	N/A
			Total	**6 / 0**	**388**	**22.9**	**388**	**22.9**	**0**	**0.0**											
Jan 17 19:31 (EST)	TLR 5A	NEXT	7-F	7 / 0	933	54.7	933	54.7	0	0.0	CSWS	1.0	0.0	NONE				0	0	0	N/A
			Total	**7 / 0**	**933**	**54.7**	**933**	**54.7**	**0**	**0.0**	**Total**	**1.0**	**0.0**								
Jan 17 19:41 (EST)	TLR 5A	NEXT	7-F	7 / 1	1305	76.5	1305	76.5	175	9.6	CSWS	1.0	0.0	NONE				0	0	0	N/A
			Total	**7 / 1**	**1305**	**76.5**	**1305**	**76.5**	**175**	**9.6**	**Total**	**1.0**	**0.0**								
Jan 17 21:26 (EST)	TLR 5A	NEXT	7-F	6 / 0	507	29.8	507	29.8	0	0.0	NONE			NONE				0	0	0	N/A
			Total	**6 / 0**	**507**	**29.8**	**507**	**29.8**	**0**	**0.0**											
Jan 17 22:26 (EST)	TLR 5A	NEXT	6-NN	1 / 0	40	2.4	40	2.4	0	0.0	NONE			NONE				0	0	0	N/A
			Total	**1 / 0**	**40**	**2.4**	**40**	**2.4**	**0**	**0.0**											
Jan 17 23:26 (EST)	TLR 5A	NEXT	6-NN	1 / 0	40	2.4	40	2.4	0	0.0	NONE			NONE				0	0	0	N/A
			Total	**1 / 0**	**40**	**2.4**	**40**	**2.4**	**0**	**0.0**											
Jan 18 00:32 (EST)	TLR 5A	NEXT	7-F	9 / 0	280	16.0	280	16.0	0	0.0	NONE			NONE				0	0	0	N/A
			Total	**9 / 0**	**280**	**16.0**	**280**	**16.0**	**0**	**0.0**											
Jan 18 01:32 (EST)	TLR 5A	NEXT	NONE								NONE			NONE				0	0	0	N/A
Jan 18 02:26 (EST)	TLR 0	CURRENT	NONE								NONE			NONE				0	0	0	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	2	103	103	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	2	80	80	0
7	35	3413	3413	175
Total	**39**	**3596**	**3596**	**175**

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
CSWS	2.0	1.0
Total	**2.0**	**1.0**