MISO ICTE Reliability: TLR 5 Event Analysis Report

Event Date: **3/15/2013**

Flowgate ID/Name: **FG 1910 Fancy Auto 500/230kV Xfmr flo McKnight-Coly 500kV line**

Metrics Tables:

TLR Date	3/15/2013 07:30
Return to Zero	3/15/2013 14:00
Duration	6 hours 30 minutes
Hours in TLR 5	6 hours 30 minutes
Highest Level	5B
MW Cut	1045
Firm	1042
Non-Firm	3

NNL:

EES	299	LEPA	1
AECI		ONT	
AMIL		PJM	
CLEC		SMEE	
CSWS		SOCO	
EDE		SPA	
LAFA		TVA	
LAGN	53	WSCS	

Flowgate information at the time of the TLR 5 issuance:

Line Rating: 1069 LODF: 0.3026 PC MVA: 1071 Contingent Element: 1011 Monitored Element: 765

Root Cause:

This event was caused by a ratings decrease on the Fancy Auto 500/230kV Xfmr from 1200 MVA to 1069 MVA and an increase in flows north to south heading into the Amite South load pocket. Contributing to the heavier load across the Fancy Auto 500/230kV Xfmr was an increase in generation output that has lower sensitivities outside of the constrained area and reduced generation in the Amite South and DSG load pockets.

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

Type:
Planned Michoud Unit 3 on 1/19/2013
Planned Riverbend Unit 1 on 2/16/2013
Planned Waterford Unit 1 on 3/2/2013

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

Non-Firm AFC's suspended: This flowgate is not in the AFC process and does not have AFC's calculated

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

1910 - Fancy Auto 500/230 kV for the loss of McKnight-Coly 500 kV

	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		
CH	SUPERSEDED	5B	03/15/2013 07:30	03/15/2013 07:09	03/15/2013 07:07	-75.0	75.0	0.0	77	39	143	19	39	143	19	0	58
NH									77	37	142	19	37	142	19		
NH	SUPERSEDED	5A	03/15/2013 09:00	03/15/2013 08:31	03/15/2013 08:28	-25.0	87.0	0.0	148	38	277	37	38	277	37	0	111
NH	SUPERSEDED	5A	03/15/2013 10:00	03/15/2013 09:30	03/15/2013 09:29	0.0	9.0	0.0	122	33	221	29	33	221	29	0	93
NH	SUPERSEDED	5A	03/15/2013 11:00	03/15/2013 10:36	03/15/2013 10:35	+20.0	0.0	0.0	95	33	191	25	33	191	25	0	70
NH	SUPERSEDED	5A	03/15/2013 12:00	03/15/2013 11:27	03/15/2013 11:25	+75.0	0.0	0.0	23	29	52	7	29	52	7	0	16
NH	SUPERSEDED	5A	03/15/2013 13:00	03/15/2013 12:43	03/15/2013 12:43	+20.0	0.0	0.0	6	18	19	2	18	19	2	0	4
NH	TERMINATED	0	03/15/2013 14:00	03/15/2013 13:27	03/15/2013 13:26	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_1910_20130315_0630.htm

Incident:	MISO_1910_20130315_0630	Date: 03/15/2013 (EST)	Reliability Coordinator: MISO
Initial Conditions:	N/A		
Flowgate:	1910 - Fancy Auto 500/230 kV for the ...	Rating: 0	LODF: 30.26%
TLR Direction:	Normal		
Effective StartTime:	03/15/2013 07:30 (EST)	Effective EndTime: 03/15/2013 14:00 (EST)	TLR Duration: 6 Hours and 30 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									Current	Post Cont.		
					MW	Relief	MW	Relief	MW	Relief	CA	IDC MW	RC Ackn MW	Type	Mkt	IDC MW	RC Ackn MW				
Mar 15 07:09 (EST)	TLR 5B	CURRENT	7-F Total	39 / 0 39 / 0	143 143	18.8 18.8	143 143	18.8 18.8	0 0	0.0 0.0	EES LAGN Total	48.0 10.0 58.0	48.0 10.0 58.0	NONE				0	0	0	N/A
		NEXT	6-NN 7-F Total	1 / 0 36 / 0 37 / 0	3 139 143	0.2 18.5 18.7	3 139 142	0.2 18.5 18.7	0 0 0	0.0 0.0 0.0	NONE			NONE							
Mar 15 08:31 (EST)	TLR 5A	NEXT	7-F Total	38 / 1 38 / 1	277 277	36.7 36.7	277 277	36.7 36.7	8 8	1.3 1.3	EES LAGN Total	94.0 17.0 111.0	94.0 17.0 111.0	NONE				0	0	0	N/A
Mar 15 09:30 (EST)	TLR 5A	NEXT	7-F Total	33 / 0 33 / 0	221 221	28.9 28.9	221 221	28.9 28.9	0 0	0.0 0.0	EES LAGN LEPA Total	79.0 13.0 1.0 93.0	79.0 13.0 1.0 93.0	NONE				0	0	0	N/A
Mar 15 10:36 (EST)	TLR 5A	NEXT	7-F Total	33 / 0 33 / 0	191 191	24.5 24.5	191 191	24.5 24.5	0 0	0.0 0.0	EES LAGN Total	60.0 10.0 70.0	60.0 10.0 70.0	NONE				0	0	0	N/A
Mar 15 11:27 (EST)	TLR 5A	NEXT	7-F Total	29 / 0 29 / 0	52 52	6.7 6.7	52 52	6.7 6.7	0 0	0.0 0.0	EES LAGN Total	14.0 2.0 16.0	14.0 2.0 16.0	NONE				0	0	0	N/A
Mar 15 12:43 (EST)	TLR 5A	NEXT	7-F Total	18 / 0 18 / 0	19 19	2.3 2.3	19 19	2.3 2.3	0 0	0.0 0.0	EES LAGN Total	3.0 1.0 4.0	4.0 1.0 5.0	NONE				0	0	0	N/A
Mar 15 13:27 (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	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	1	3	3	0
7	226	1042	1042	8
Total	227	1045	1045	8

TLR NNL Totals

CA	NNL Relief	
	IDC MW	RC Ackn MW
EES	298.0	299.0
LAGN	53.0	53.0
LEPA	1.0	1.0
Total	352.0	353.0