

MISO ICTE Reliability: TLR 5 Event Analysis Report



Event Date: 10/13/2013

Flowgate ID/Name: FG 19439 Bogalusa AT3 500/230kV flo McKnight-Franklin 500kV line

Metrics Tables:

TLR Date	10/13/2013 15:40
Return to Zero	10/13/2013 23:30
Duration	7 hours 50 minutes
Hours in TLR 5	7 hours 50 minutes
Highest Level	5B
MW Cut	3800
Firm	538
Non-Firm	3262

NNL:

EES	269	LEPA	
AECI		ONT	
AMIL		PJM	
CLEC	18	SMEE	
CSWS		SOCO	1
EDE		SPA	
LAFA		TVA	
LAGN	5	WSCS	

Flowgate information at the time of the TLR 5 issuance:

Line Rating: 953 (webTAR) LODF: 0.4399 PC MVA: 1094 Contingent Element: 632 Monitored Element: 816

Root Cause:

This event was caused by an increase in flows north to south heading into the Amite South load pocket. Contributing to the heavier load across the Bogalusa AT3 500/230kV Xfmr for the loss of the McKnight-Franklin 500kV line was an increase in generation outputs that have lower sensitivities outside of the constrained area, unplanned outages and reduced generation in the Amite South and DSG load pockets.

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

Type:

Unplanned Michoud Unit 3 on 10/9/2013
Planned Big Cajun 2 Unit 2 on 10/12/2013
Planned Big Cajun 2 Unit 1 on 10/5/2013
Planned Ninemile Unit 5 on 10/5/2013
Planned Waterford Unit 2 on 9/28/2013

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

Type:

Planned Mt Olive-El Dorado-Hartburg 500kV line on 10/8/2013
Planned Mt Olive AT 1 500/230kV Xfmr on 10/8/2013

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

EES_TEA01TOG8340_LEPA

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

19439 - Bogalusa AT3 500/230kV flo McKnight-Franklin 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		
CH	SUPERSEDED	5B	10/13/2013 15:40	10/13/2013 15:22	10/13/2013 15:19	-110.0	110.0	0.0	113	46	574	57	46	574	57	0	55
NH									139	51	745	84	50	743	83		
NH	SUPERSEDED	5A	10/13/2013 17:00	10/13/2013 16:37	10/13/2013 16:35	-100.0	130.0	0.0	188	51	687	84	45	483	56	0	104
NH	SUPERSEDED	5A	10/13/2013 18:00	10/13/2013 17:31	10/13/2013 17:28	+60.0	31.0	0.0	138	50	604	74	45	451	49	0	64
NH	SUPERSEDED	5A	10/13/2013 19:00	10/13/2013 18:28	10/13/2013 18:25	+70.0	7.0	0.0	73	43	409	45	42	408	44	0	29
NH	SUPERSEDED	5A	10/13/2013 20:00	10/13/2013 19:28	10/13/2013 19:25	-50.0	37.0	0.0	68	38	403	44	37	402	44	0	24
NH	SUPERSEDED	5A	10/13/2013 21:00	10/13/2013 20:29	10/13/2013 20:26	+35.0	9.0	0.0	34	26	212	24	25	211	24	0	10
NH	SUPERSEDED	5A	10/13/2013 22:00	10/13/2013 21:29	10/13/2013 21:25	+80.0	20.0	0.0	32	21	351	26	20	350	26	0	6
NH	SUPERSEDED	5A	10/13/2013 23:00	10/13/2013 22:32	10/13/2013 22:26	+50.0	7.0	0.0	15	5	179	15	4	178	15	0	0
NH	TERMINATED	0	10/13/2013 23:30	10/13/2013 23:07	10/13/2013 23:07	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0

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Event Summary:

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FILE SAVED AS: MISO_19439_20131013_1440.htm

Incident:	MISO_19439_20131013_1440	Date: 10/13/2013 (EST)	Reliability Coordinator: MISO
Initial Conditions:	N/A		
Flowgate:	19439 - Bogalusa AT3 500/230kV flo McK...	Rating: 0	LODF: 43.99%
TLR Direction:	Normal		
Effective StartTime:	10/13/2013 15:40 (EST)	Effective EndTime: 10/13/2013 23:30 (EST)	TLR Duration: 7 Hours and 50 Minutes

TLR Actions

Confirm Time	Level	Effective Hour	Schedule								NNL Relief			Market Relief				Flow			TLR Action Comments
			Priority	Total Tags Cut/Hold	IDC Cut		RC Cut Acknowledge		Hold		CA	IDC MVV	RC Ackn MVV	Type	Mkt	IDC MVV	RC Ackn MVV	Current	Post Cont.	Cont. Flow	
Oct 13 15:22 (EST)	TLR 5B	CURRENT	1-NS	3 / 0	166	10.1	166	10.1	0	0.0	CLEC	3.0	3.0	NONE				0	0	0	N/A
			2-NH	5 / 0	292	29.2	292	29.2	0	0.0	EES	51.0	51.0								
			6-NN	2 / 0	35	3.9	35	3.9	0	0.0	LAGN	1.0	1.0								
			7-F	36 / 0	81	13.9	81	13.9	0	0.0	Total	55.0	55.0								
			Total	46 / 0	574	57.1	574	57.1	0	0.0											
		NEXT	1-NS	4 / 0	167	10.2	167	10.2	0	0.0	NONE			NONE							
			2-NH	8 / 0	392	50.4	392	50.4	0	0.0											
			6-NN	4 / 0	88	7.1	88	7.1	0	0.0											
			7-F	34 / 0	96	15.7	96	15.7	0	0.0											
			Total	50 / 0	574	83.3	743	83.3	0	0.0											
Oct 13 16:37 (EST)	TLR 5A	NEXT	1-NS	1 / 0	63	4.0	63	4.0	0	0.0	CLEC	6.0	6.0	NONE				712	843	300	N/A
			2-NH	5 / 0	292	29.2	292	29.2	0	0.0	EES	95.0	95.0								
			6-NN	2 / 0	128	23.4	128	23.4	575	42.1	LAGN	2.0	2.0								
			7-F	39 / 3	128	23.4	128	23.4	575	42.1	SOCO	1.0	1.0								
			Total	45 / 3	483	56.3	483	56.3	575	42.1	Total	104.0	105.0								
Oct 13 17:31 (EST)	TLR 5A	NEXT	1-NS	1 / 0	63	4.0	63	4.0	0	0.0	CLEC	4.0	4.0	NONE				686	795	250	N/A
			2-NH	5 / 0	292	29.0	292	29.0	0	0.0	EES	59.0	59.0								
			6-NN	2 / 0	96	16.5	96	16.5	0	0.0	LAGN	1.0	1.0								
			7-F	39 / 0	96	16.5	96	16.5	0	0.0	Total	64.0	64.0								
			Total	45 / 0	451	49.4	451	49.4	0	0.0											
Oct 13 18:28 (EST)	TLR 5A	NEXT	1-NS	1 / 0	63	4.0	63	4.0	0	0.0	CLEC	2.0	2.0	NONE				683	803	275	N/A
			2-NH	5 / 0	267	26.9	267	26.9	0	0.0	EES	26.0	26.0								
			6-NN	1 / 0	23	4.9	23	4.9	0	0.0	LAGN	1.0	1.0								
			7-F	35 / 0	55	8.7	55	8.7	0	0.0	Total	29.0	29.0								
			Total	42 / 0	408	44.4	408	44.4	0	0.0											
Oct 13 19:28 (EST)	TLR 5A	NEXT	1-NS	1 / 0	63	4.0	63	4.0	0	0.0	CLEC	1.0	1.0	NONE				712	883	390	N/A
			2-NH	5 / 0	267	26.9	267	26.9	0	0.0	EES	22.0	22.0								
			6-NN	2 / 0	28	5.6	28	5.6	0	0.0	Total	23.0	23.0								
			7-F	29 / 1	44	7.0	44	7.0	5	0.5											
			Total	37 / 1	402	43.5	402	43.5	5	0.5											
Oct 13 20:29 (EST)	TLR 5A	NEXT	1-NS	1 / 0	63	4.0	63	4.0	0	0.0	CLEC	1.0	1.0	NONE				716	863	335	N/A
			2-NH	3 / 0	101	11.4	101	11.4	0	0.0	EES	10.0	10.0								
			6-NN	1 / 0	23	4.9	23	4.9	0	0.0	Total	11.0	11.0								
			7-F	20 / 0	24	3.4	24	3.4	0	0.0											
			Total	25 / 0	211	23.8	211	23.8	0	0.0											
Oct 13 21:29 (EST)	TLR 5A	NEXT	2-NH	6 / 1	309	18.2	309	18.2	50	2.5	CLEC	0.0	1.0	NONE				683	806	280	N/A
			6-NN	2 / 0	27	5.5	27	5.5	0	0.0	EES	5.0	5.0								
			7-F	12 / 0	14	2.2	14	2.2	0	0.0	Total	5.0	6.0								
			Total	20 / 1	350	26.0	350	26.0	50	2.5											
Oct 13 22:32 (EST)	TLR 5A	NEXT	2-NH	2 / 0	151	9.3	151	9.3	0	0.0	NONE			NONE				630	774	328	N/A
			6-NN	2 / 0	27	5.5	27	5.5	0	0.0											
			Total	4 / 0	178	14.7	178	14.7	0	0.0											
Oct 13 23:07 (EST)	TLR 0	CURRENT	NONE								NONE			NONE				603	673	160	N/A

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TLR Schedule Totals

Priority	Schedule			
	Total Tags Cut / Hold	IDC Cut MVV	RC Cut Acknowledge MVV	Hold MVV
0	0	0	0	0
1	12	648	648	0
2	44	2363	2363	50
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	14	251	251	0
7	244	538	538	580
Total	314	3800	3800	630

TLR NNL Totals

CA	NNL Relief	
	IDC MVV	RC Ackn MVV
CLEC	17.0	18.0
EES	268.0	269.0
LAGN	5.0	5.0
SOCO	1.0	1.0
Total	291.0	293.0