



John T. Butler
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 Florida Power & Light Company
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 (561) 304-5639

April 28 2008

VIA HAND DELIVERY

Ms. Ann Cole, Commission Clerk
 Florida Public Service Commission
 2540 Shumard Oak Boulevard
 Tallahassee, Florida 32399-0850

080000-OT

COMMISSION
 CLERK

08 APR 28 PM 12:47

RECEIVED-FPSC

Re: Quarterly report of customer interruptions and curtailments.

Dear Ms. Cole:

Enclosed please find Florida Power & Light Company's ("FPL") quarterly Report of Customer Interruptions and Curtailments for the quarter ending March 31, 2008 in accordance with Rule 25-6.018(3), F.A.C. As the Commission is aware, at 1:09 pm on Tuesday, February 26, 2008, an incident occurred in the FPL service area that caused some FPL customers to lose power. The peak number of FPL customers without power was approximately 596,000, with an average outage time of approximately one hour for affected customers. Although some Curtailable Service (CS) customers were affected by this event, FPL did not specifically curtail CS customers during the event.

Also enclosed with this letter are documents that were provided to the Commission Staff in accordance with Rule 25-6.018(2), F.A.C., concerning the February 26 incident. These documents were provided as soon as practicable and as they became available. FPL's investigation of this incident is ongoing. FPL will continue to provide information to the Commission Staff on the incident as it becomes available.

Please acknowledge your receipt of this filing as provided in the Commission's electronic filing procedures. Thank you for your assistance in this matter.

- CMP _____
- COM _____
- CTR _____
- ECR _____
- GCL _____
- OPC _____
- RCA _____
- SCR _____
- SGA _____
- SEC _____
- OTH _____

Enclosures

Respectfully,

John T. Butler

DOCUMENT NUMBER-DATE

03417 APR 28 08

FPSC-COMMISSION CLERK

Florida Power & Light Company
Report of Customer Interruptions and Curtailments
Rule 25-6.018 (3)

Reporting Period: 1st Qtr 2008

Interruptions During Quarter? Yes No # Events 0

Rate Class	Date of Interruption	Start Time	End Time	Duration	Load Shed (MW) @ Gen	Reason for Interruption	
CS-1							
CS-2							
CS-3							
CST-1							
CST-2							
CST-3							
Total					0		
Continuity of Service Available? <input type="checkbox"/> Yes <input type="checkbox"/> No							
Continuity of Service Details	Date of Purchase	Start Time	End Time	Duration	MWh's @ Gen	Cost / Mwh	Source

Completed By: Ernie Plasencia
 Date: 4/3/2008

DOCUMENT NUMBER-DATE
 03417 APR 28 8
 FPSC-COMMISSION CLERK

NOTICE: This report is **mandatory** under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see General Information portion of the instructions. **Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

RESPONSE DUE: Submit a Schedule 1 as an Emergency Alert report within 1 hour if for incidents 1-8 below. All other initial reports are due within 6 hours of the incident. Submit updates as needed and a final report (Schedules 1 and 2) within 48 hours. Electronic submission is the preferred method of submission.

SCHEDULE 1 -- ALERT NOTICE (page 1 of 2)

<p>Criteria for Filing (Check all that apply)</p> <p>If any box 1-8 on the right is checked, this form must be filed within 1 hour of the incident; check Emergency Alert (for the Alert Status) on Line 1 below.</p> <p>If any box 9-12 on the right is checked AND none of the boxes 1-8 are checked, this form must be filed within 6 hours of the incident; check Normal Alert (for the Alert Status) on Line 1 below.</p> <p>If significant changes have occurred after filing the initial report, refile the form with the changes and check Update (for the Alert Status) on Line 1 below.</p> <p>48 hours after an incident occurs refile the form with the latest information and check Final (for the Alert Status) on Line 1 below.</p>	<p>1. <input type="checkbox"/> Actual physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations</p> <p>2. <input type="checkbox"/> Actual cyber or communications attack that causes major interruptions of electrical system operations</p> <p>3. <input type="checkbox"/> Complete operational failure or shut-down of the transmission and/or distribution electrical system</p> <p>4. <input type="checkbox"/> Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system</p> <p>5. <input checked="" type="checkbox"/> Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident</p> <p>6. <input type="checkbox"/> Load shedding of 100 Megawatts or more implemented under emergency operational policy</p> <p>7. <input type="checkbox"/> System-wide voltage reductions of 3 percent or more</p> <p>8. <input type="checkbox"/> Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system</p> <p>9. <input type="checkbox"/> Suspected physical attacks that could impact electric power system adequacy or reliability; or vandalism which target components of any security systems</p> <p>10. <input type="checkbox"/> Suspected cyber or communications attacks that could impact electric power system adequacy or vulnerability</p> <p>11. <input checked="" type="checkbox"/> Loss of electric service to more than 50,000 customers for 1 hour or more</p> <p>12. <input type="checkbox"/> Fuel supply emergencies that could impact electric power system adequacy or reliability</p>
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LINE NO.	ORGANIZATION FILING
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1.	Alert Status (check one)	Emergency Alert <input type="checkbox"/>	Normal Alert <input type="checkbox"/>	Update <input type="checkbox"/>	Final <input type="checkbox"/>
		1 Hour	6 Hours	As required	48 Hours
2.	Organization Name	Florida Power & Light			
3.	Address of Principal Business Office	4200 West Flagler St Miami FL			
NAME OF OFFICIAL THAT NEEDS TO BE CONTACTED FOR FOLLOW-UP AND ANY ADDITIONAL INFORMATION					
4.	Name	Don McInnis			
5.	Title	Manager, Operations Engineering			
6.	Telephone Number	(305)-(442)-(5272)			
7.	FAX Number	(305)-(442)-()			
8.	E-mail Address	Don_mcinnis@FPL.com			
9.	Teleconference Number	()-()-()	Passcode <input type="checkbox"/>	Video <input type="checkbox"/>	<input type="checkbox"/>

INCIDENT AND DISTURBANCE DATA

10.	Geographic Area(s) Affected	Primary Dade County FL.	Unknown <input type="checkbox"/>
11.	Date/Time Incident Began (mm-dd-yy/hh:mm) using 24-hour clock	_02_ - _26_ - 2008 / _13_ : _09_	
		mo dd yy hh mm	
12.	Estimated Date/Time of Restoration (mm-dd-yy/ hh:mm) using 24-hour clock	_02_ - _26_ - 2008 _19_ / _00_	
		mo dd yy hh mm	
13.	Date/Time Incident Ended (mm-dd-yy/ hh:mm) using 24-hour clock	_ / _ : _	
		mo dd yy hh mm	
14.	Did the incident/disturbance originate in your system/area? (check one)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
15.	Estimate of Amount of Demand Involved (Megawatts)	3000MW	Unknown <input type="checkbox"/>
16.	Estimate of Number of Customers Affected	850,000	Unknown <input type="checkbox"/>
17.	Internal Organizational Tracking Number (if applicable)	N.A.	

SCHEDULE 1 -- ALERT NOTICE (page 2 of 2)

18. Type of Emergency Check all that apply	19. Cause of Incident Check if known or suspected	20. Actions Taken Check all that apply
Major Physical Attack []	Complete Electrical System Failure []	Shed Firm Load [x]
Major Cyber Attack []	Electrical System Separation – Islanding []	Reduced Voltage []
Major Transmission System Interruption [x]	Inadequate Electric Resources to Serve Load [x]	Made Public Appeals []
Major Generation Inadequacy []	Actual or Suspected Malicious/Intentional Physical [] Cyber/Computer/Telecom [] Vandalism []	Implemented a Warning, Alert, or Contingency Plan []
Major Distribution System Interruption []	Transmission Equipment [x]	Shed Interruptible Load []
Other []	Loss of Part or All of a High Voltage Substation or Switchyard (230 kV + for AC 200 kV+ for DC). []	Repaired/Restored []
	Weather or Natural Disaster []	Other []
	Operator Action(s) []	
	Fuel Supply Deficiency (e.g., gas, oil, water) []	
	Unknown Cause []	
	Other []	

The timely submission of Form OE-417 by those required to report is mandatory under Section 13(b) of the Federal Energy Administration Act of 1974 (FEAA) (Public Law 93-275), as amended. Failure to respond may result in a penalty of not more than \$2,750 per day for each civil violation, or a fine of not more than \$5,000 per day for each criminal violation. The government may bring a civil action to prohibit reporting violations, which may result in a temporary restraining order or a preliminary or permanent injunction without bond. In such civil action, the court may also issue mandatory injunctions commanding any person to comply with these reporting requirements. **Title 18 U.S.C. 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.** A person is not required to respond to collection of information unless the form displays a valid OMB number. Data reported on Form OE-417 in Schedule 1, lines 4, 5, 6, 7, 8, and 9 are considered to be confidential. Schedule 2 is considered confidential. **All other data are not confidential.** (See form General Instructions for a full list of legal citations covering data collection authorization.)

SCHEDULE 2. – NARRATIVE DESCRIPTION

Provide a description of the event and actions taken to resolve it. Include as appropriate, the cause of the incident/disturbance, equipment damaged, critical infrastructures interrupted and effects on other systems. Be sure to identify: the name of any lost high voltage substations or switchyards, whether there was any electrical system separation (and if there were, what the islanding boundaries were), and the name of the generators and voltage lines that were lost (shown by capacity type and voltage size grouping). If necessary, copy and attach additional sheets. Equivalent documents, containing this information can be supplied to meet the requirement; these include the NERC Disturbance Report and the voluntary National Critical Infrastructure Protection System Form. Along with the filing of Schedule 2, a final (updated) Schedule 1 needs to be filed. Check the Final box on line 1 for Alert Status on Schedule 1 and submit this and the completed Schedule 2 no later than 48 hours after the event.

21. Narrative:

At 13:09 on 2/26/2008 FPL lost approximately 3000MW of load impacting 850,000 customers. FPL lost 35 transmission lines in Dade county. Approximately 2400MW of generation also tripped.

The loss of generation resulted in underfrequency operation within the state of Florida. The bulk of the load lost by FPL was in Dade county due to the opening of transmission lines. Underfrequency operation shed load throughout FPL's service territory

Restoration of transmission lines and the associated customer begin within 15 minutes of the interruption. All essential customer load has been restored.

All load in FPL's Northern area has been restored. Restoration of load in Dade, Broward and Palm Beach counties is being delayed due to inadequate generation due to the earlier loss. The ability to bring power into the effected areas is limited due to a planned maitenance outage of a 500kV line.

As generation is returned to service additional load is being restored. All load is expected to be restored by 21:00 on 2/26/08.

Additional reports to follow

<p>Name of Generator(s) and Voltage Line(s) system reference (terminal points)</p> <p>(For these losses, please group by generator type and voltage size)</p>	
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(Check all that apply)

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If significant changes have occurred after filing the initial report, refile the form with the changes and check Update (for the Alert Status) on Line 1 below.

48 hours after an incident occurs refile the form with the latest information and check Final (for the Alert Status) on Line 1 below.

1. Actual physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations
2. Actual cyber or communications attack that causes major interruptions of electrical system operations
3. Complete operational failure or shut-down of the transmission and/or distribution electrical system
4. Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system
5. Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident
6. Load shedding of 100 Megawatts or more implemented under emergency operational policy
7. System-wide voltage reductions of 3 percent or more
8. Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system
9. Suspected physical attacks that could impact electric power system adequacy or reliability; or vandalism which target components of any security systems
10. Suspected cyber or communications attacks that could impact electric power system adequacy or vulnerability
11. Loss of electric service to more than 50,000 customers for 1 hour or more
12. Fuel supply emergencies that could impact electric power system adequacy or reliability

LINE NO. ORGANIZATION FILING					
1.	Alert Status (check one)	Emergency Alert <input type="checkbox"/> 1 Hour	Normal Alert <input type="checkbox"/> 6 Hours	Update <input type="checkbox"/> As required	Final <input checked="" type="checkbox"/> 48 Hours
2.	Organization Name	Florida Power & Light			
3.	Address of Principal Business Office	4200 West Flagler St Miami FL			
NAME OF OFFICIAL THAT NEEDS TO BE CONTACTED FOR FOLLOW-UP AND ANY ADDITIONAL INFORMATION					
4.	Name	Don McInnis			
5.	Title	Manager, Operations Engineering			
6.	Telephone Number	(305)-(442)-(5272)			
7.	FAX Number	(305)-(442)-(5022)			
8.	E-mail Address	Don.mcinnis@FPL.com			
9.	Teleconference Number	()-()-()	Passcode []	Video []	
INCIDENT AND DISTURBANCE DATA					
10.	Geographic Area(s) Affected	Primary Dade County FL.			Unknown <input type="checkbox"/>
11.	Date/Time Incident Began (mm-dd-yy/hh:mm) using 24-hour clock	__02__ - __26__ - __2008__ / __13__ : __09__ mo dd yy hh mm			
12.	Estimated Date/Time of Restoration (mm-dd-yy/ hh:mm) using 24-hour clock	__02__ - __26__ - __2008__ 16/ 30 : ____ mo dd yy hh mm			Unknown <input type="checkbox"/>
13.	Date/Time Incident Ended (mm-dd-yy/ hh:mm) using 24-hour clock	__02__ - - - / : ____ mo dd yy hh mm			
14.	Did the incident/disturbance originate in your system/area? (check one)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Unknown <input type="checkbox"/>	
15.	Estimate of Amount of Demand Involved (Megawatts)	3200MW			Unknown <input type="checkbox"/>
16.	Estimate of Number of Customers Affected	584,384			Unknown <input type="checkbox"/>
17.	Internal Organizational Tracking Number (if applicable)	N.A.			

SCHEDULE 1 -- ALERT NOTICE (page 2 of 2)

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Major Cyber Attack []	Electrical System Separation – Islanding []	Reduced Voltage []
Major Transmission System Interruption [x]	Inadequate Electric Resources to Serve Load [x]	Made Public Appeals []
Major Generation Inadequacy []	Actual or Suspected Malicious/Intentional Physical [] Cyber/Computer/Telecom [] Vandalism []	Implemented a Warning, Alert, or Contingency Plan []
Major Distribution System Interruption []	Transmission Equipment [x]	Shed Interruptible Load []
Other []	Loss of Part or All of a High Voltage Substation or Switchyard (230 kV + for AC 200 kV+ for DC) [x]	Repaired/Restored []
	Weather or Natural Disaster [] Operator Action(s) [] Fuel Supply Deficiency (e.g., gas, oil, water) [] Unknown Cause [] Other []	Other []

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21. Narrative:

At 13:09 an equipment failure at an FPL substation facility in Dade county created a three phase fault on the system. The fault caused the loss of generating units plus the tripping of transmission lines. Approximately 3200MW of load was lost impacting an estimated 584,384 customers.

The loss of generation resulted in underfrequency operation within the state of Florida. The bulk of the load lost by FPL was in Dade county due to the opening of transmission lines

Restoration of transmission lines and the associated customer begin within 15 minutes of the interruption. By 15:00 all transmission lines have been restored. By 16:11 all feeders were restored. Residential load management and commercial industrial load control were active in Dade, Broward and Palm Beach counties until roughly 19:00.

Initial restoration of generation that tripped started at 16:49 with the return to service of CT at Turkey Point.

Generators That Tripped

**Turkey Point #3 (715MW), Turkey Point #4(710MW), Turkey Point #5(1092MW)
Martin 8ACT, Martin 8BCT, Martin 8CCT(total 700MW), Lauderdale 5ACT(220)**

Transmission line effected:

**Name of
Generator(s)
and Voltage
Line(s) system
reference
(terminal points)**

(For these losses,
please group by
generator type and
voltage size)

Station		Station
ANDYTOWN	LINE	FLAGAMI_230KV
DADE	LINE	FLAGAMI_138KV
DORAL	TIE	DADE_REC_230KV
GALLOWAY	LINE	SOUTH_MIAMI_138KV
MIAMI	LINE	MIAMI_BEACH_138KV
RAILWAY	LINE	MIAMI_#1_138KV
AIRPORT	LINE	RIVERSIDE_138KV
RIVERSIDE	LINE	AIRPORT_138KV
RIVERSIDE	LINE	FLAGAMI_#1_138KV
RIVERSIDE	LINE	FLAGAMI_#2_138KV
TURKEY_POINT	LINE	FLAGAMI_#1_230KV
TURKEY_POINT	LINE	FLAGAMI_#2_230KV
VILLAGE_GREEN	LINE	FLAGAMI_138KV
SOUTH_MIAMI	LINE	FLAGAMI_138KV
MIAMI_BEACH	LINE	MIAMI_69KV
LEVEE	LINE	FLAGAMI_230KV
COURT	LINE	CUTLER_138KV
DAVIS	LINE	CUTLER_#4_138KV
Cutler	Line	Galloway
Miami	Line	Simpson
Flagami	Line	Miami #1
Flagami	Line	Miami #2
Coconut Grove	Line	Riverside
Coconut Grove	Line	South Miami
Cutler	Line	South Miami

Single End Trips

GARDEN	LINE	LITTLE_RIVER_138KV
LAUDERDALE	LINE	GRATIGNY_138KV
MIAMI	LINE	RAILWAY_#2_138KV
MIAMI_SHORES	LINE	LITTLE_RIVER_138KV
TURKEY_POINT	LINE	DAVIS_#2_230KV
VENETIAN	LINE	RONEY_69KV
LEVEE	LINE	TURKEY_POINT_230KV

Transmission Stations Impacted

**Identify Name of
Lost High
Voltage
Substation(s)
and/or
Switchyards**

(230 kV + for AC --
200 kV+ for DC)

Coconut Grove
Flagami
Riverside
Cutler
Riverside
Miami
South Miami
Galloway

<p>Identify Electrical System Separation: Islanding Boundaries</p> <p>(DOE needs a basic description/understa nding of the linked generating resources to load pockets.)</p>	<p>None</p>
<p style="text-align: right;">Page of</p>	

NERC Interconnection Reliability Operating Limit and Preliminary Disturbance Report

Check here if this is an Interconnection Reliability Operating Limit (IROL) violation report.

1.	Organization filing report.	Florida Power & Light	
2.	Name of person filing report.	Frank Prieto	
3.	Telephone number.	305-442-5920	
4.	Date and time of disturbance. Date:(mm/dd/yy) Time/Zone:	02/26/08 13:09 EST	
5.	Did the disturbance originate in your system?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6.	Describe disturbance including: cause, equipment damage, critical services interrupted, system separation, key scheduled and actual flows prior to disturbance and in the case of a disturbance involving a special protection or remedial action scheme, what action is being taken to prevent recurrence.	Failure of switch that connected an inductor at FPL's Flagami 138KV switchyard. No equipment damage other than switch. No system separation occurred. No special protection schemes operated.	
7.	Generation tripped. MW Total List generation tripped	3238 MW Turkey Point #3 and #4 (1425 MW), Turkey Point #5 (1092 MW), Martin #8 (502 MW), Lauderdale #5A CT (220 MW)	
8.	Frequency. Just prior to disturbance (Hz): Immediately after disturbance (Hz max.): Immediately after disturbance (Hz min.):	60 60.65 59.39	
9.	List transmission lines tripped (specify voltage level of each line).	see attachment A	
10.	Demand tripped (MW): Number of affected Customers: Demand lost (MW-Minutes):	FIRM	INTERRUPTIBLE
3200 MW		None	
475,000 (estimated)		None	
TBD		None	
11.	Restoration time.	INITIAL	FINAL
	Transmission:	13:09:21	14:53:41
	Generation:	17:32	23:05
	Demand:	13:18	16:11

	Date	Time	Reporting Station	From Bus		To Bus			TIME CLOSED
1	8/2/2026	13.09.13	ANDYTOWN	ANDYTOWN	LINE	FLAGAMI_230KV	TRML	OPEN	13:26:47
2	8/2/2026	13.09.13	DADE	DADE	LINE	FLAGAMI_138KV	TRML	OPEN	13:28:21
3	8/2/2026	13.09.13	DORAL	DORAL	TIE	DADE_REC_230KV	TRML	OPEN	14:53:41
4	8/2/2026	13.09.13	GALLOWAY	GALLOWAY	LINE	SOUTH_MIAMI_138KV	TRML	OPEN	14:03:37
5	8/2/2026	13.09.13	GARDEN	GARDEN	LINE	LITTLE_RIVER_138KV	TRML	OPEN	13:09:21
6	8/2/2026	13.09.13	LAUDLE	LAUDERDALE	LINE	GRATIGNY_138KV	TRML	OPEN	13:09:21
8	8/2/2026	13.09.13	MIAMI	MIAMI	LINE	MIAMI_BEACH_138KV	TRML	OPEN	14:32:20
9	8/2/2026	13.09.13	MIAMI	MIAMI	LINE	RAILWAY_#2_138KV	TRML	OPEN	14:24:03
10	8/2/2026	13.09.13	RAILWAY	RAILWAY	LINE	MIAMI_#1_138KV	TRML	OPEN	14:24:39
11	8/2/2026	13.09.15	AIRPORT	AIRPORT	LINE	RIVERSIDE_138KV	TRML	OPEN	13:29:17
12	8/2/2026	13.09.15	MIAMI_SH	MIAMI_SHOR	LINE	LITTLE_RIVER_138KV	TRML	OPEN	13:38:37
13	8/2/2026	13.09.15	RIVRSIDE	RIVERSIDE	LINE	AIRPORT_138KV	TRML	OPEN	13:29:17
14	8/2/2026	13.09.15	RIVRSIDE	RIVERSIDE	LINE	FLAGAMI_#1_138KV	TRML	OPEN	13:31:19
15	8/2/2026	13.09.15	RIVRSIDE	RIVERSIDE	LINE	FLAGAMI_#2_138KV	TRML	OPEN	13:33:55
16	8/2/2026	13.09.15	TKY_PT	TURKEY_POI	LINE	DAVIS_#2_230KV	TRML	OPEN	13:09:21
17	8/2/2026	13.09.15	TKY_PT	TURKEY_POI	LINE	FLAGAMI_#1_230KV	TRML	OPEN	13:39:25
18	8/2/2026	13.09.15	TKY_PT	TURKEY_POI	LINE	FLAGAMI_#2_230KV	TRML	OPEN	13:43:20
19	8/2/2026	13.09.15	VLG_GREN	VILLAGE_GRE	LINE	FLAGAMI_138KV	TRML	OPEN	13:40:17
20	8/2/2026	13.09.17	S_MIAMI	SOUTH MIAM	LINE	FLAGAMI_138KV	TRML	OPEN	14:11:54
21	8/2/2026	13.09.17	VENETIAN	VENETIAN	LINE	RONEY_69KV	TRML	OPEN	14:36:04
22	8/2/2026	13.09.21	MIA_BCH	MIAMI_BEACH	LINE	MIAMI_69KV	TRML	OPEN	14:33:49
23	8/2/2026	13.09.25	LEVEE	LEVEE	LINE	FLAGAMI_230KV	TRML	OPEN	13:26:09
24	8/2/2026	13.09.25	LEVEE	LEVEE	LINE	TURKEY_POINT_230KV	TRML	OPEN	13:38:33
25	8/2/2026	13.12.20	COURT	COURT	LINE	CUTLER_138KV	TRML	OPEN	13:49:56
26	8/2/2026	13.12.20	COURT	COURT	LINE	DAVIS_138KV	TRML	OPEN	13:49:56
27	8/2/2026	13.12.20	DAVIS	DAVIS	LINE	CUTLER_#4_138KV	TRML	OPEN	13:52:52

FRCC Preliminary Disturbance Report - Supplemental Data Request

This data will be used to complete a Regional investigation of the event.

FRCC Regional Event Date: February 26th 2008, approx. 1309 EST

1.	Revision date: (of this data and attached "NERC IROL and Preliminary Disturbance Report")	02/27/08 @5:30 PM
2.	System Load Immediately prior to event:	15,200 MW
3.	Actual UFLS Load Shed: Total amount (MW):	892 MW
	No. of feeders:	503 Feeders
	Step setting for the feeders:	59.70 Hz
	Ratio: no. of feeders tripped / no. of feeders set for each step.	116/223 (under investigation)
4.	Any significant voltage excursions on your system ($\pm 10\%$): List by Substation: Max. volts: Min. volts:	None post fault
5.	List any actual SOL or IROL conditions on your system as result of the event:	None

6.	<p>Please attach any relevant frequency or voltage plots that you feel will help in the investigation of the event, to this report:</p> <p>Note: Include sampling rate and equipment used to produce the plot.</p>	Will be provided with later report
7.	Any Misoperations coincident with this event:	Under investigation
8.	Additional comments:	None

The UFLS Program Set-points are provided as a reference:

UFLS Step	Frequency - (hertz)	Time Delay ¹ - (seconds)	Amount of Load (% of member system)	Cumulative Amount of Load (%)
A	59.7 ²	0.28	9	9
B	59.4	0.28	7	16
C	59.1	0.28	7	23
D	58.8	0.28	6	29
E	58.5	0.28	5	34
F	58.2	0.28	7	41
L	59.4	10.0	5	46
M	59.7	12.0	5	51
N	59.1	8.0	5	56

2. Deviations from the FRCC UFLS schedule must be assessed by the FRCC. Local area changes in the UFLS assignments must be compatible with the overall underfrequency protection for the FRCC

¹ Time Delay = Intentional delay + relay delay + breaker delay

² FPL has 2/3 of Step A set at 59.52 hertz as an aid to system stability. This high set Step A is concentrated in the Miami area

FPL Interim Measures

- Provided refresher training to P&C field engineers on the established practice of not disabling all protection for energized equipment.
- Modified procedures to require two P&C field engineers to sign off on job risk assessment at all substations when any relay protection is disabled.
- In addition, changed work practices to require that a second P&C field engineer be present when relay protection is disabled at transmission substations.
- Conducted training on new and modified procedures with all P&C field personnel.

