

Ruth Nettles

From: Joe McKinney [joe.mckinney@fmpa.com]
Sent: Monday, February 02, 2009 10:45 AM
To: Filings@psc.state.fl.us
Cc: Karen Culpepper; tom.reedy@fmpa.com; steve.kirchoff@fmpa.com; Stephen Garl
Subject: Docket 090047
Attachments: FMPA Emergency Plans Rev 12-2008 redline.doc

Attached are revised capacity emergency and fuel emergency plans for the Florida Municipal Power Agency. This is a correction to the documents sent January 30, 2009 and should replace those documents. Information required for electronic filing follows.

Person responsible for the Electronic filing:

Joseph R. McKinney
8553 commodity Circle
Orlando, FL 32819
407-355-7767
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Docket 090047
Request for approval of electric utilities' long-term energy emergency plans, filed pursuant to Rule 25-6.018, F.A.C.

Filed on behalf of the Florida Municipal Power Agency (FMPA)

The emergency plans consist of pages in a type and strike format.

The emergency plans are FMPA's plans for responding to potential and actual capacity emergencies and fuel emergencies. The document has been reformatted and revised to address NERC Reliability Standards and updated with current contact information and generation resource information.

Joe McKinney
Operation and Short Term Planning Manager
Florida Municipal Power Agency

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(See attached file: FMPA Emergency Plans Rev 12-2008 redline.doc)

DOCUMENT NUMBER - DATE

00813 FEB -2 8

FPSC-COMMISSION CLERK



Florida Municipal Power Agency

Joe McKinney
Operations and Short-Term Planning Manager

February 2, 2009

Office of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Betty Easley Conference Center, Room 10
Tallahassee, FL 32399-0850

Re: Docket 090047

Attached are revised capacity emergency and fuel emergency plans for the Florida Municipal Power Agency. This is a correction to the documents sent January 30, 2009 and should replace those documents. Information required for electronic filing follows.

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Docket 090047

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Filed on behalf of the Florida Municipal Power Agency (FMPPA)

The document consist of 31 pages in a type and strike format.

The emergency plans are FMPPA's plans for responding to potential and actual capacity emergencies and fuel emergencies. The document has been reformatted and revised to address NERC Reliability Standards and updated with current contact information and generation resource information.

Joseph R. McKinney
Operation and Short Term Planning Manager
Florida Municipal Power Agency

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00813 FEB-2 09

FPSC-COMMISSION CLERK

Revised 12/21/2008

FMPA CAPACITY EMERGENCY PLAN

Last Revision: 2008

PURPOSE

The purpose of this plan is to provide personnel of the Florida Municipal Power Agency (FMPA) with a specific set of guidelines and procedures to use for the All-Requirements Project (ARP) when responding to a generating capacity shortage. The All-Requirements Project is the wholesale supplier of electricity to the City of Bushnell, City of Clewiston, City of Fort Meade, Fort Pierce Utilities Authority, City of Green Cove Springs, Town of Havana, Keys Energy Services (Utility Board of the City of Key West), Beaches Energy Services (City of Jacksonville Beach), Kissimmee Utility Authority, Lake Worth Utilities, City of Leesburg, City of Newberry, City of Ocala, City of Starke, and City of Vero Beach.

The purpose of this plan is to coordinate with the individual All-Requirements Project participant's emergency plans and with the Florida Reliability Coordinating Council (FRCC) plan when responding to generating capacity shortages in the State of Florida.

This plan provides Florida Municipal Power Agency ~~Operations~~ personnel with procedures to contact and inform All-Requirement Project participants' operation and management personnel of a Generating Capacity Advisory, Generating Capacity Alert, Generating Capacity Emergency, or System Load Restoration.

A generating capacity shortage exists when any one of the electric utilities in the State of Florida has, or is forecast to have, inadequate generating capability, including purchased power, to supply its firm load obligations.

~~The FRCC definitions of a Generating Capacity Advisory, Generating Capacity Alert, Generating Capacity Emergency, and System Load Restoration are located in Appendix G.~~

The FMPA ALL-REQUIREMENTS PROJECT CAPACITY EMERGENCY PLAN is designed to address the timely notification of project participants so they can notify their own emergency and public information personnel, customers, news media, local government personnel, municipal emergency agencies, fire, police and the Public Service Commission.

~~The Orlando Utilities Commission (OUC) dispatch center~~ Florida Municipal Power Pool Balancing Authority (FMPP BA) will be notified of a Generating Capacity Advisory, Alert, Emergency or System Load Restoration by the State Capacity Emergency Coordinator via the State messaging system. ~~OUC dispatch center personnel~~ FMPP BA System Operators will notify FMPA personnel of the Generating Capacity Advisory, Alert, Emergency or System Load Restoration.

FMPA personnel will notify specified people at the cities of Bushnell, Clewiston, Fort Meade, Fort Pierce, Green Cove Springs, Havana, Jacksonville Beach, Key West, Kissimmee, Lake Worth, Leesburg, Newberry, Ocala, Starke and Vero Beach. If FMPA

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FPSC-COMMISSION CLERK

personnel cannot be reached, the ~~OUC dispatch center personnel~~ FMPP BA System Operators will notify specified people at the cities of Bushnell, Clewiston, Fort Meade, Fort Pierce, Green Cove Springs, Havana, Jacksonville Beach, Key West, Kissimmee, Lake Worth, Leesburg, Newberry, Ocala, Starke and Vero Beach.

GENERATING CAPACITY ADVISORY

A Generating Capacity Advisory anticipates conditions which may affect operations and is primarily for information purposes. An Advisory will be issued when: (1) temperature projections for up to three days in advance of the current date exceed temperature criteria in a prescribed number of cities; (2) one or more utilities in an area are issuing or planning to issue public appeals for conservation, (3) notification by an individual utility that their generation fuel supplies may be impacted and **may** decrease below a level adequate to provide for continuous, uninterrupted service to its firm customers, or (4) the fuel supplies and deliveries, on a state-wide basis **may** be impacted by weather, natural gas production disruptions, natural gas pipeline delivery disruptions, or any other fuel infrastructure impacts within the FRCC. An Advisory issued for conditions (3) or (4) will be issued as:

Generating Capacity Advisory / Short-Term Generation Fuel Availability Concern

An Advisory does not indicate an imminent threat of an Alert or an Emergency, and minimal action would normally be required by utilities or governmental agencies. An Advisory declared on the basis of forecasted temperatures will not be rescinded even if the temperature forecast changes.

The State Capacity Emergency Coordinator will, via the State messaging system, notify the ~~Orlando Utilities Commission dispatch center~~ FMPP BA that an Advisory has been declared. ~~Personnel at the OUC dispatch center~~ The FMPP BA System Operators will immediately notify the Florida Municipal Power Agency. FMPA personnel will immediately notify the participants of the All-Requirements Project.

FMPA shall notify the State Capacity Emergency Coordinator if any of the All-Requirements participants are issuing or planning to issue public appeals for conservation.

When a Generating Capacity Advisory has been issued, ~~OUC dispatch personnel~~ FMPP BA System Operators will immediately contact one of the FMPA personnel listed in Appendix A. FMPA personnel (or ~~OUC personnel~~ FMPP BA System Operators if FMPA cannot be contacted) will contact All-Requirements participants' office and fax as listed in Appendix A. FMPA personnel will fax a GENERATING CAPACITY ADVISORY FOR AREA 1 sheet in Appendix B, or a GENERATING CAPACITY ADVISORY FOR AREA 2 sheet in Appendix C.

FMPA will provide participants with the reason a Generating Capacity Advisory is being declared:

- a) 1. Temperature projections ~~exceeded the~~ for up to three days in advance of the current date exceed temperature criteria in a prescribed ~~criteria~~ number of cities.

- b)2. One or more utilities in an area are issuing or planning to issue public appeals for conservation.
- 3. ~~Disruption of the~~ Notification by an individual utility that their generation fuel supplies may be impacted and **may** decrease below a level adequate to provide for continuous, uninterrupted service to its firm customers.
- e)4. The fuel supplies and deliveries, on a state-wide basis **may** be impacted by weather, natural gas production disruptions, natural gas pipeline(s) serving delivery disruptions, or any other fuel infrastructure impacts within the FRCC ~~Region~~.

Recommended participant action:

- ~~a) Implement utility public awareness programs if appropriate.~~
- a) b)a) Notify utility emergency personnel, if appropriate.
- b) e)b) Notify local emergency agencies, if appropriate.
- e)
- e)
- c) Prepare a Generating Capacity Advisory announcement for the news media.
- d) Implement utility public awareness programs.

GENERATING CAPACITY ALERT

~~The State Capacity Emergency Coordinator will, via the State messaging system, notify the Orlando Utilities Commission dispatch center that an Alert has been declared. OUC dispatch center personnel will immediately notify the Florida Municipal Power Agency. Personnel of FMPA will immediately notify the participants of the All Requirements Project.~~

~~When aA Generating Capacity Advisory has been Alert will be issued, OUC dispatch personnel will immediately contact one of the FMPA personnel listed in Appendix A. FMPA personnel (or OUC personnel if FMPA cannot be contacted) will contact All Requirements participants' office and fax as listed in Appendix A. FMPA personnel will fax a GENERATING CAPACITY ALERT sheet in Appendix D.~~

~~FMPA will inform participants that the reason a Generating Capacity Alert is being declared is that the State when: (1) the FRCC operating margin is such that the loss of the largest generating unit in the State will necessitate interruption of firm load.~~

a) ___% reserves during peak on ___/___/___

~~___ MWs of FMPA resources are out of in Florida; (2) the fuel supplies of an individual utility **have** decreased below a level adequate to provide for continuous, uninterrupted service or~~

unexpected high loads, FMPA is purchasing power that can be recalled by the seller to its firm customers, or (3) the fuel supplies and deliveries on a state-wide basis **have** decreased and **may** be below a level adequate to provide for continuous, uninterrupted service to firm customers. An Alert issued for conditions (2) or (3) will be issued as a:

***Generating Capacity Alert /
Short-Term Generation Fuel Shortage***

The issuance of a Generating Capacity Alert does not indicate an imminent threat of a Generating Capacity Emergency and is used to increase situational awareness and heighten the coordination and response efforts between and among utilities and the appropriate governmental agencies, to a potential generating capacity shortage.

The State Capacity Emergency Coordinator will, via the State messaging system, notify the FMPP BA that an Alert has been declared. FMPP BA System Operators will immediately notify the Florida Municipal Power Agency. FMPA personnel will immediately notify the participants of the All-Requirements Project.

When a Generating Capacity Advisory has been issued, FMPP BA System Operators will immediately contact one of the FMPA personnel listed in Appendix A. FMPA personnel (or FMPP BA System Operators if FMPA cannot be contacted) will contact All-Requirements participants' office and fax as listed in Appendix A. FMPA personnel will fax a GENERATING CAPACITY ALERT sheet in Appendix D.

FMPA will provide participants with the reason a Generating Capacity Advisory is being declared:

1. The FRCC operating margin is such that the loss of the largest generating unit will necessitate interruption of firm load in Florida.
2. The fuel supplies of an individual utility **have** decreased below a level adequate to provide for continuous, uninterrupted service to its firm customers.
3. The fuel supplies and deliveries on a state-wide basis **have** decreased and **may** be below a level adequate to provide for continuous, uninterrupted service to firm customers.

Recommended participant action:

- a) Notify Utility emergency personnel, if appropriate.
- b) Notify local emergency agencies, if appropriate.
- c) Prepare a Generating Capacity Alert announcement for the news media.
- d) Implement -utility public awareness programs.
- e) Implement Load Management/Interruptible Service.
- f) Implement procedures to reduce utility and city use of power.

GENERATING CAPACITY EMERGENCY

A Generating Capacity Emergency will be declared when (1) one of the electric utilities in the FRCC Region has inadequate generating capacity, including purchased power, to supply its firm load obligations, or (2) the fuel supplies and deliveries on a state-wide basis **have** decreased to a level that is not adequate to provide for continuous, uninterrupted service to firm customers. The loss of firm load in a localized area due to a transmission or distribution outage, temporary problem or isolated event may be reported but would not cause the implementation of the plan. The loss of firm load in a localized area due to automatic underfrequency relay operation would not cause the implementation of the plan unless it is anticipated that the outage will extend over several hours. The declaration of a Generating Capacity Emergency for condition (2) above will be declared as a:

Generating Capacity Emergency / Short-Term Generation Fuel Shortage

A Generating Capacity Emergency declaration indicates an immediate or imminent threat to the reliability of the overall FRCC bulk power system. The declaration of a Generating Capacity Emergency will specify a time period and date that denotes the emergency period. If an emergency has been declared more than one day in advance based on forecasted data, it will not be rescinded unless the revised data indicates that the operating margin and availability of generation fuel is sufficient to be "out of" an Alert phase as well.

The State Capacity Emergency Coordinator will, via the State messaging system, notify the ~~OUC dispatch center~~ FMPP BA that an Emergency has been issued. ~~Personnel of the OUC dispatch center~~ FMPP BA System Operators will immediately notify FMPA. FMPA personnel will immediately notify the participants of the All-Requirements Project.

~~OUC~~ FMPP BA System Operators shall monitor the capability of FMPA generating resources and the FMPA All-Requirements participant load. FMPA shall be notified by ~~OUC~~ the FMPP BA System Operators if FMPA generating resources are not sufficient to serve the FMPA load and emergency purchases may not be available.

FMPA shall notify the State Capacity Emergency Coordinator if any of the All-Requirements participants have implemented firm load reductions.

When a Generating Capacity Emergency has been issued or FMPA generating resources are not sufficient to serve the FMPA load and emergency purchases may not be available, ~~OUC~~ ~~dispatch personnel~~ FMPP BA System Operators will immediately contact one of the FMPA personnel listed in Appendix A.

FMPA personnel (or ~~OUC personnel~~ FMPP BA System Operators if FMPA cannot be contacted) will contact All-Requirements participants' office and fax as listed in Appendix A.

FMPA personnel will fax a GENERATING CAPACITY EMERGENCY sheet in Appendix E.

FMPA will ~~inform the~~ provide participants that ~~with the reason a Generating Capacity Emergency Advisory is being declared is due to the loss of firm load in the State.~~

1. ~~Status of All Requirements Project situation:~~ One of the electric utilities in the FRCC Region has inadequate generating capacity, including purchased power, to supply its firm load obligations.
2. The fuel supplies and deliveries on a state-wide basis **have** decreased to a level that is not adequate to provide for continuous, uninterrupted service to firm customers.
 - a) ~~___% reserves during peak on ___/___/___~~
 - b) ~~___ MWs of FMPA resources are out of service or unexpected high loads, FMPA is purchasing power that can be recalled by the seller.~~
 - c) ~~FMPA projects to be deficient by ___ MW during the peak on ___/___/___ and, if purchase power is not available, will be contacting participants to reduce firm load.~~
 - d) ~~FMPA has requested firm load reductions of ___ MWs in the cities of _____.~~

Recommended participant action:

- a) Notify utility emergency personnel, if appropriate.
- b) Notify local emergency agencies, if appropriate.
- c) Prepare a Generating Capacity Alert announcement for the news media.
- d) Implement utility public awareness programs.
- e) Implement Load Management/Interruptible Service.
- f) Implement procedures to reduce utility and city use of power.
- ~~g) Prepare to reduce firm load.~~
- g) Implement voltage reduction if available
- h) Implement voltage reduction if available
- i) Request the removal or relaxation of environmental restraints
- j) Shed firm load as directed by the FMPP

SYSTEM LOAD RESTORATION

System Load Restoration is complete when firm load reduction has been terminated and power supply is adequate.

The State Capacity Emergency Coordinator will, via the State messaging system, notify the ~~Orlando Utilities Commission dispatch center~~ FMPP BA that all firm load has been restored. ~~Personnel at the OUC dispatch center~~ FMPP BA System Operators will immediately notify the Florida Municipal Power Agency. ~~Personnel of~~ FMPP BA personnel will immediately notify the participants of the All-Requirements Project.

FMPP BA shall notify the State Capacity Emergency Coordinator when firm load has been restored if any of the All-Requirements participants have implemented firm load reductions.

When a System Load Restoration has been issued, ~~OUC dispatch personnel~~ FMPP BA System Operators will immediately contact one of the FMPP BA personnel listed in Appendix A. FMPP BA personnel (or ~~OUC personnel~~ FMPP BA System Operators if FMPP BA cannot be contacted) will contact the All-Requirements participants' office and fax as listed in Appendix A. FMPP BA personnel will fax a SYSTEM LOAD RESTORATION sheet as shown in Appendix F.

Recommended participant action:

- a) Restore load as directed by the FMPP BA System Operator
- b) Notify utility emergency personnel, if appropriate.
- c) Notify local emergency agencies, if appropriate.
- d) Prepare a System Load Restoration announcement for the news media.
- e) Implement utility public awareness programs.

NOTIFICATION TO DEPARTMENT OF ENERGY

~~A report to Department of Energy Emergency (DOE) Operations Center is necessary when the events listed below occur. Form EIA 417 (Appendix H) outlines the appropriate reporting procedures for the following conditions:~~

- ~~1) Uncontrolled loss of 300 MW firm system loads for more than 15 minutes as a result of a single incident.~~
- ~~2) Load shedding of more than 100 MW implemented under emergency operational policy.~~
- ~~3) System-wide voltage reductions of three percent or more.~~
- ~~4) Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric system.~~
- ~~5) Actual or suspected physical attacks that could impact electric power system adequacy or reliability or vandalism which target components of any security systems.~~

- ~~6) Actual or suspected cyber or communications attacks that could impact electric power system adequacy or vulnerability.~~
- ~~7) Fuel supply emergencies that could impact electric power system adequacy or reliability.~~
- ~~8) Loss of electric service to more than 50,000 customers.~~
- ~~9) Complete operational failure or shut-down of the transmission and/or distribution electrical system.~~

~~The DOE Emergency Operations Center (EOC) (202) 586-8100 shall be notified as soon as practicable without undue interference with service restoration and in any event, within 3 hours after the beginning of the interruption.~~

FMPA shall notify the DOE Emergency Operations Center if FMPA requests meet any of the ~~above~~ conditions outlined in Form EIA-417.

Also, FMPA shall notify the DOE Emergency Operations Center for any issuance of a public appeal by All-Requirements project participant(s) to reduce the use of electricity due to a Generating Capacity Advisory, Generating Capacity Alert, or Generating Capacity Emergency.

FMPA will complete the United States Department of Energy, Office of Energy Emergency Operations, Power System Emergency Report Form EIA-417.

REVIEW CAPACITY EMERGENCY PLAN

This plan and attached messages will be reviewed once a year by the ~~Operations~~Energy Supply and Fuels Manager at FMPA.

The ~~System~~OperationsEnergy Supply and Fuels Manager at FMPA will issue revisions of the plan to the following:

- All-Requirements participants
- Florida Reliability Coordinating Council
- Florida Public Service Commission
- ~~• Orlando Utilities Commission Dispatch Center~~
- Florida Municipal Power Pool

Appendix A

FMPA Personnel Contact List

Name	Office	Dispatch	Home	Nextel Radio #	Cell Phone
Steve McElhane	(407) 355-7767	NA	(407) 359-7899	158*43639*106	(407) 468-5935
Joe McKinney	(407) 355-7767	NA	(352) 867-7179	158*43639*22	(407) 947-5038
Gene Way	(407) 355-7767	NA	(407) 273-1228	158*43639*112	(407) 947-9984

Name	Office	Dispatch	Home	Cell Phone
Joe McKinney	(407) 355-7767	NA	(352) 867-7179	(407) 947-5038
Steve Kirchoff	(407) 355-7767	NA	(407) 593-1280	(239) 218-4865
Richard Montgomery	(407) 355-7767	NA	(407) 362-7661	(407) 637-1929

All-Requirements Contact List

	Office	Dispatch	FAX	Nextel Radio	Cell Phone
City of Bushell Bruce Hickle	(352) 793-8012		(352) 793-8036		(352) 303-1090
City of Clewiston Kevin McCarthy	(863) 983-1454		(863) 983-3406		(863) 228-0360
Fort Pierce Utilities Authority Tom Richards	(772) 466-1600 ext. 3400	(772) 461-5875 *	(772) 595-9841	158*43639*8 P 158*43639*9 T	(772) 528-0075
Green Cove Springs Dale Mandrell	(904) 529-2230	(904) 529-2229	(904) 529-2232		(904) 237-2667
Town of Havana Susan Frieden	(850) 539-2820		(850) 539-2830		(850) 524-2268
Jacksonville Beach Gary Quick	(904) 247-6281	(904) 247-6171 * (904) 247-6204	(904) 247-6120	158*43639*1	
Keys Energy Fred Culpepper	(305) 295-1062	(305) 295-1059 *	(305) 295-1060	158*43639*10	
Kissimmee Utility Authority Ken Davis	(407) 933-7777 Ext 61210	(407) 847-7893 * (407) 847-7627	(407) 933-4178	158*43639*4 CI 158*43639*11 T 158*43639*12 H	(321) 624-0901
Lake Worth Utilities Walt Gill	(561) 586-1706	(561) 586-1704 *	(561) 586-1759	158*43639*13 T 158*43639*2 P	
City of Leesburg Lloyd Shank	(352) 728-9834	(352) 728-9830 *	(352) 728-9809	158*43639*3	(352) 516-7207
City of Ocala Becky Matthey	(352) 351-6600	(352) 351-6609 *	(352) 351-8263	158*43639*108	(352) 572-0339
City of Starke Ricky Thompson	(904) 964-2011		(904) 966-0584		(352) 494-3288
City of Vero Beach Craig Wellmaker	(772) 978-5040	(772) 978-5041 *	(772) 978-5090	158*43639*6 P 158*43639*107 T	

	Office	Dispatch	FAX	Cell Phone
City of Bushnell Bruce Hickle	(352) 793-8012	Contact Bruce Hielke	(352) 793-8036	(352) 303-1090
City of Clewiston Kevin McCarthy	(863) 983-1454	Contact Kevin McCarthy	(863) 983-3406	(863) 228-0360
City of Fort Meade Fred Hilliard	(863) 285-1100 Ext. 232	Contact Fred Hilliard	(863) 285-1124	(863) 226-8350
Fort Pierce Utilities Authority Tom Richards	(772) 466-1600 Ext. 3400	(772) 461-5875 *	(772) 595-9841	(772) 528-0075
Green Cove Springs Greg Griffin	(904) 529-2249	(904) 529-2229	(904) 529-2232	(904) 298-4342
Town of Havana Howard McKinnon	(850) 539-2820	Contact Paul Bert @ (850) 556-3285	(850) 539-2830	(850) 524-2268
Jacksonville Beach Don Ouchley	(904) 247-6259	(904) 247-6171 * (904) 247-6204	(904) 247-6120	(904) 226-3859
Keys Energy Fred Culpepper	(305) 295-1062	(305) 295-1059 *	(305) 295-1060	
Kissimmee Utility Authority Ken Davis	(407) 933-7777 Ext 61210	(407) 847-7893 * (407) 847-7627	(407) 933-4178	(321) 624-0901
Lake Worth Utilities Walt Gill	(561) 586-1706	(561) 586-1704 *	(561) 586-1759	
City of Leesburg Paul Kalv	(352) 728-9834	(352) 728-9830 *	(352) 728-9809	(352) 516-2052
City of Newberry Blaine Suggs	(352) 472-2161	Contact Blaine Suggs	(352) 472-7026	(352) 258-4486
City of Ocala Matt Brower	(352) 351-6600	(352) 351-6609 *	(352) 351-8263	
City of Starke Ricky Thompson	(904) 964-2011	Contact Ricky Thompson	(904) 966-0584	(352) 494-3288
City of Vero Beach Jim Stevens	(772) 978-5051	(772) 978-5041 *	(772) 978-5090	(772) 473-3202

* **Note:** The dispatch offices of these cities can be reached by the Orlando Utilities Commission Dispatcher via a NEXTEL radio communication system are operated 24/7

T=transmission/distribution P=plant CI=Cane Island H=Hansel

Appendix B

FLORIDA MUNICIPAL POWER AGENCY
ALL-REQUIREMENTS PROJECT
CAPACITY EMERGENCY CONTINGENCY PLAN
~~GENERATING CAPACITY SHORTAGE ELEMENT~~

GENERATING CAPACITY ADVISORY FOR AREA 1*

FOR ADDITIONAL INFORMATION CALL
FMPA OFFICE (407) 355-7767

* (Area 1 includes Jacksonville, Pensacola & Tallahassee)

NOTE: ~~Havana, Green Cove Springs, Havana, Jacksonville Beach, Newberry, and Starke~~ are in AREA 1.

Generating Capacity Advisory declared for ___ / ___ / ___ **through** ___ / ___ / ___

Definition of Advisory:

- _____ Temperature projections for up to three days in advance of the current date exceed ~~the prescribed~~ temperature criteria in ~~two~~ a prescribed number of cities ~~of area 1~~.
- _____ One or more utilities in an area ~~+~~ are issuing or planning to issue public appeals for conservation.
- _____ Disruption of the Gas Pipeline(s) serving the ~~FRCC~~ Region

RECOMMENDED ACTION:

- _____ Notification by an individual utility that their generation fuel supplies may be impacted and **may** decrease below a level adequate to provide for continuous, uninterrupted service to its firm customers.
- _____ The fuel supplies and deliveries, on a state-wide basis **may** be impacted by weather, natural gas production disruptions, natural gas pipeline delivery disruptions, or any other fuel infrastructure impacts within the FRCC.

Recommended participant action:

- a) Notify utility emergency personnel, if appropriate.
- b) _____ Notify local emergency ~~personnel~~ agencies, if appropriate.
- c) _____ Prepare a Generating Capacity Advisory announcement for the news media.

d) Implement utility public awareness programs.

Generating Capacity Advisory declared for ___/___/___

THROUGH

___/___/___

Date & Time issued ___/___/___ : ___

By: _____

Appendix C

FLORIDA MUNICIPAL POWER AGENCY
ALL-REQUIREMENTS PROJECT
CAPACITY EMERGENCY CONTINGENCY PLAN
~~GENERATING CAPACITY SHORTAGE ELEMENT~~

GENERATING CAPACITY ADVISORY FOR AREA 2*

FOR ADDITIONAL INFORMATION CALL
FMPA OFFICE (407) 355-7767

* (Area 2 includes Miami, Orlando, St. Petersburg & Tampa)

NOTE: Bushnell, Clewiston, Fort Meade, Fort Pierce, Key West, Kissimmee, Lake Worth, Leesburg, Ocala, and Vero Beach are in AREA 2.

Generating Capacity Advisory declared for ___ / ___ / ___ **through** ___ / ___ / ___

Definition of Advisory:

- ~~_____~~ Temperature projections for up to three days in advance of the current date exceed ~~the prescribed temperature criteria in two~~ a prescribed number of cities ~~of area 2.~~
- ~~_____~~ One or more utilities in an area 2 are issuing or planning to issue public appeals for conservation.
- ~~_____~~ Disruption of the Gas Pipeline(s) serving the FRCC Region

~~RECOMMENDED ACTION:~~

- ~~_____~~ Notification by an individual utility that their generation fuel supplies may be impacted and **may** decrease below a level adequate to provide for continuous, uninterrupted service to its firm customers.
- ~~_____~~ The fuel supplies and deliveries, on a state-wide basis **may** be impacted by weather, natural gas production disruptions, natural gas pipeline delivery disruptions, or any other fuel infrastructure impacts within the FRCC.

Recommended participant action:

- a) Notify utility emergency personnel, if appropriate.
- b) ~~_____~~ Notify local emergency ~~personnel~~ agencies, if appropriate.
- c) ~~_____~~ Prepare a Generating Capacity Advisory announcement for the news media.

d) Implement utility public awareness programs.

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Generating Capacity Advisory declared for ___ / ___ / ___

THROUGH

___ / ___ / ___

Date & Time issued ___ / ___ / ___ - ___ : ___

By: _____

Appendix D

FLORIDA MUNICIPAL POWER AGENCY
ALL-REQUIREMENTS PROJECT
CAPACITY EMERGENCY CONTINGENCY-PLAN
~~GENERATING CAPACITY SHORTAGE ELEMENT~~

GENERATING
GENERATORING CAPACITY ALERT

FOR ADDITIONAL INFORMATION CALL
FMPA OFFICE (407) 355-7767

~~Definition of Alert:~~

~~A Generating Capacity Alert exists when the state operating margin is such that the loss of the largest generating unit will necessitate interruption of firm load in the state.~~

Generating Capacity Alert is declared for ___ / ___ / ___.

Definition of Alert:

- The FRCC operating margin is such that the loss of the largest generating unit will necessitate interruption of firm load in Florida.
- The fuel supplies of an individual utility **have** decreased below a level adequate to provide for continuous, uninterrupted service to its firm customers.
- The fuel supplies and deliveries on a state-wide basis **have** decreased and **may** be below a level adequate to provide for continuous, uninterrupted service to firm customers.

ALL-REQUIREMENTS PROJECT SITUATION:

- _____ FMPA projects ___% reserves during the peak on ___ / ___ / ___.
- _____ Due to FMPA resources out of service, FMPA is purchasing power that can be recalled by the seller.
- _____ Due to unexpected high loads, FMPA is purchasing power that can be recalled by the seller.

~~RECOMMENDED ACTION:~~

Recommended participant action:

- a) Notify utility emergency personnel, if appropriate.
- b) ~~_____~~ Notify local emergency personnel agencies, if appropriate.
- c) ~~_____~~ Prepare a Generating Capacity Alert announcement for the news media.
- d) ~~_____~~ Implement utility public awareness programs.
- e) ~~_____~~ Implement Load Management/Interruptible Service programs.
- f) ~~_____~~ Implement procedures to reduce utility and city use of power.

Date & Time issued ___ / ___ / ___ : ___

By: _____

Appendix E

FLORIDA MUNICIPAL POWER AGENCY
ALL-REQUIREMENTS PROJECT
CAPACITY EMERGENCY CONTINGENCY PLAN
~~GENERATING CAPACITY SHORTAGE ELEMENT~~

GENERATING CAPACITY EMERGENCY

FOR ADDITIONAL INFORMATION CALL
FMPA OFFICE (407) 355-7767

~~Definition of Emergency:~~

~~A Generating Capacity Emergency exists when any one of the electric utilities in the state of Florida has inadequate generating capability, including purchased power, to supply its firm load obligations.~~

Generating Capacity Emergency is issued for ___ / ___ / ___.

Definition of Emergency:

- One of the electric utilities in the FRCC Region has inadequate generating capacity, including purchased power, to supply its firm load obligations.
- The fuel supplies and deliveries on a state-wide basis **have** decreased to a level that is not adequate to provide for continuous, uninterrupted service to firm customers.

Recommended participant action:

- a) Notify utility emergency personnel, if appropriate.
- b) Notify local emergency agencies, if appropriate.
- c) Prepare a Generating Capacity Alert announcement for the news media.
- d) Implement utility public awareness programs.
- e) Implement Load Management/Interruptible Service.
- f) Implement procedures to reduce utility and city use of power.
- g) Implement voltage reduction if available
- h) Implement voltage reduction if available
- i) Request the removal or relaxation of environmental restraints
- j) Shed firm load as directed by the FMPP

ALL-REQUIREMENTS PROJECT SITUATION:

- _____FMPA projects ___% reserves during the peak on ___ / ___ / ___.

- _____ Due to FMPA resources out of service, FMPA is purchasing power that can be recalled by the seller.
- _____ Due to unexpected high loads, FMPA is purchasing power that can be recalled by the seller.
- _____ FMPA projects to be deficient by ___ MW during the peak on ___ / ___ / ___ and, if purchase power is not available, will be contacting participants to reduce firm load.

” _____ FMPA has requested firm load reductions of ___ MW in the
_____ cities of _____

RECOMMENDED ACTION:

- ” _____ Notify utility emergency personnel.
- ” _____ Notify local emergency personnel.
- ” _____ Prepare a Generating Capacity Emergency announcement for the news media.
- ” _____ Implement utility public awareness programs.
- ” _____ Implement Load Management/Interruptible programs
- ” _____ Implement procedures to reduce utility and city use of power.
- ” _____ Prepare to reduce load.

Date & Time issued ___ / ___ / ___ : ___

By: _____

Appendix F

**FLORIDA MUNICIPAL POWER AGENCY
ALL-REQUIRMENTS PROJECT
CAPACITY EMERGENCY CONTINGENCY-PLAN
~~GENERATING CAPACITY SHORTAGE ELEMENT~~**

SYSTEM LOAD RESTORATION

**FOR ADDITIONAL INFORMATION CALL
FMPA OFFICE (407) 355-7767**

System Load Restoration is issued for ___ / ___ / ___.

Definition of Restoration:

A System Load Restoration is complete when firm load reduction has been terminated and power supply is adequate.

~~RECOMMENDED ACTION:~~

~~_____ Recommended participant action:~~

- f) Restore load as directed by the FMPP BA System Operator
- g) Notify utility emergency personnel, if appropriate.
- h) _____ Notify local emergency ~~personnel~~ agencies, if appropriate.
- i) _____ Prepare a System Load Restoration announcement for the news media.
- j) _____ Implement utility public awareness programs.

~~System Load Restoration is issued for ___ / ___ / ___.~~

Date & Time issued ___ / ___ / ___ : ___

By: _____

|

Appendix G

FRCC Generating Capacity Advisory

A "Generating Capacity Advisory" is similar to a hurricane watch. It is intended to give early warning of potential electricity shortfalls and bring utilities, emergency management officials, the Governor and the Florida Public Service Commission to a state of readiness.

The Advisory is primarily for information purposes. It automatically kicks off utility tracking activities, and it initiates inter-utility and inter-agency communication. While advisories do not usually require public action, general information about the potential problem can be distributed to consumers to forewarn them of adverse conditions if necessary.

The Advisory is triggered by either (1) a forecast of extreme temperatures around the State or (2) a public conservation appeal by an individual utility, or (3) disruption of the gas pipeline(s) serving the FRCC Region that may threaten to adversely affect the generation capacity in the FRCC Region. Due to the geographical and electrical configuration of Florida, the State has been divided into two areas. Area 1 includes Gainesville, Tallahassee and Jacksonville (north Florida). Area 2 includes Orlando, Tampa, St. Petersburg and Miami (central and south Florida).

Temperature thresholds have been set for each of these cities and when a predetermined number of cities exceed their temperature triggers, an Advisory is declared for that area. The temperatures are important since severe weather (hot or cold) can be accompanied by significant increases in electric demand.

An Advisory also is declared when any individual utility plans to or calls for voluntary conservation from its customers. At times the problem may be local and may not require or allow statewide assistance. Even in this circumstance, the Advisory sensitizes all utilities to the problem and heightens awareness in case the event escalates into a potential statewide problem.

FRCC Generating Capacity Alert

The second stage of the plan is a "Generating Capacity Alert." It is based on a reserve margin which is defined as the difference between available statewide resources and the amount of peak electric demand projected for that day. An alert will be called when (1) the reserves fall below the size of the largest generating unit in the State (currently approximately 900 MW), or, (2) disruption of the gas pipeline(s) serving the FRCC Region will adversely affect the generation capacity in the FRCC Region.

The reason for the reserve trigger is when reserves fall below the 900 MW level, loss of a large unit due to an unexpected mechanical failure could lead to blackouts since sufficient backup capacity is not available.

The Alert initiates actions that are intended to increase reserves. For example, available emergency supply options would be explored. Additionally, utilities could reduce electric

demand through load management programs. These programs give utility dispatchers control over certain appliances and electrical equipment according to pre-arranged customer agreements. Through remote control equipment and installation of special switches on appliances (such as electric water heaters, air conditioning/heating systems and pool pumps), the dispatcher can cycle appliances on and off as needed during a peak demand period. Close to 1,500 MW of load management is available statewide. Utilities can also ask consumers to implement voluntary conservation measures.

Some utilities have industrial or commercial customers on interruptible service. Under this agreement, the customer gets lower priced energy in exchange for the utility's right to interrupt their electricity on short notice to lower electric demand. The difference between load management and interruptible service is that the first selectively cycles specific appliances on and off for short periods of time, while the second cuts off service to the industrial load entirely.

Typically, industrial customers on interruptible service have backup power (either they own small generators or are co-generators) and are able to supply their own electric needs for these periods. A little more than 1100 MW of interruptible load is available statewide.

FRCC Generating Capacity Emergency

A "Generating Capacity Emergency" occurs when firm load is lost or blackouts occur or are inevitable in Florida. Rolling blackouts manually activated by utilities are a last resort to avoid system overload and possible equipment damage. Without them, the electric system could undergo an automatic shutdown that would result in more widespread and longer blackouts. By the time rolling blackouts are used, utilities would have exhausted every available means to balance supply and demand.

Prior to rolling blackouts, actions include bringing all generating units to full capability, starting all units that are available, purchasing energy from outside the State, reducing non-essential electric use at utility facilities, using load management, curtailing interruptible customers, reducing voltage levels to within established safe limits, and issuing appeals to consumers for emergency reduction of electricity use and voluntary conservation.

At this stage of the emergency plan, actions and information are coordinated among utilities, emergency agencies, the Governor, the Florida Public Service Commission, and the media. Frequent status reports are provided to agencies and the media. The Division of Emergency Management would consider using the Emergency Broadcast System (EBS) to inform citizens of events and to direct them to available shelters if conditions warranted.

Recognizing the consequences of a loss of electricity, individual utility emergency plans include provisions for special facilities critical to the safety and welfare of citizens such as hospitals, fire and police departments, mass transit, communication services, water supply and sanitation facilities, and national defense installations. Every effort is made to maintain power to these facilities, but utilities recommend that emergency facilities or anyone with critical equipment should install emergency or portable generating equipment.

~~Although the State emergency plan is set up to give consumers advance warnings, there can be circumstances (such as the sudden loss of the transmission lines that connect Florida to the rest of the U.S., or the loss of multiple generating units) where blackouts could occur suddenly without the opportunity to issue warnings.~~

~~When the power goes out during rolling blackouts, consumers should immediately turn off major appliances and the heating or air conditioning systems. Once power is restored, appliances can be returned to use gradually as needed. This prevents a sudden power drain as electricity is restored and avoids the possibility of overloads that could interrupt power on a local electrical supply circuit.~~

~~A Generating Capacity Emergency exists when any one of the electric utilities in the State of Florida has inadequate generating capability, including purchased power, to supply its firm load obligations. The loss of firm load due to a transmission or distribution outage, temporary problem or isolated event may be reported, but would not cause the implementation of the plan since conservation may not have an impact.~~

~~The loss of firm load due to automatic under frequency relay operation would not cause the implementation of the plan unless it is anticipated that the outages will extend over several hours.~~

FRCC System Load Restoration

~~"System Load Restoration" is the last phase of the plan and is instituted when rolling blackouts have been terminated and power supply is adequate. This is the recovery stage and concerted efforts are made to provide frequent system status reports. Messages to consumers would focus on the timing and location of facility repairs, appropriate safety information and consumer self help instructions.~~

Appendix H

**DOE Form EIA-417
Attached**

FMPA Fuel Emergency Plan

Last Revision: December 2008

The Florida Municipal Power Agency (FMPA) is a non-profit governmental joint-action consisting agency made of 30 municipalities in Florida. The FMPA, under project All-Requirements Project (ARP), supplies all energy requirements for) is the Cities of Ocala, Leesburg, wholesale supplier of electricity to the City of Bushnell, Jacksonville Beach, Green Cove Springs, City of Clewiston, Vero Beach, Ft. Pierce, Key West, Starke, Havana, Newberry, City of Fort Meade, Lake Worth and the Fort Pierce Utilities Authority, City of Green Cove Springs, Town of Havana, Keys Energy Services (Utility Board of the City of Key West), Beaches Energy Services (City of Jacksonville Beach), Kissimmee Utility Authority (KUA). In supplying this power, FMPA has various, Lake Worth Utilities, City of Leesburg, City of Newberry, City of Ocala, City of Starke, and City of Vero Beach. FMPA utilizes a variety of resources in its portfolio. These power resources include to supply the energy requirements of the ARP cities including purchases from other utilities, FMPA-owned generation and non FMPA generation. (The terms " FMPA generation" and "Non FMPA generation" do not refer to whether FMPA has an ownership interest in a particular power resource; instead these terms delineate between power resources under FMPA's operational control, FMPA generation, and those power resources not under FMPA's operational control, non FMPA generation.) leases from ARP generating cities. The generating resources that FMPA controls are units those located at Vero Beach, Ft. Pierce, Key West, KUA, Lake Worth and KUA. These units, the MW, Vero Beach, the Treasure Coast Energy Center (TCEC) in Ft. Pierce, and the Oleander #5 unit in Cocoa. The unit identification, the capacity of each unit and the types of fuel in megawatts and available fuel type(s) for each unit are listed in Attachment A. For non FMPA generating units, the jointly owned generation where FMPA owns a minority share, the majority Owner-/Operator is responsible for the fuel supply.

This fuel emergency plan Fuel Emergency Plan details how FMPA anticipates handling different fuel emergencies for the FMPA generation fleet while serving the electrical needs of the All-Requirements-ARP municipalities. There are two types of fuel that can be used in these generating units: natural gas and fuel oil. Due to the oil embargo in the 1970's and the gas pipeline rupture in 1998, FMPA is developing this plan to handle address constraints on either of the two these fuels types. This plan will be enacted if the State of Florida and/or Florida Reliability Coordinating Council (FRCC) declares a fuel emergency.

Natural Gas Emergency Plan

When one or more the natural gas pipelines are pipeline is severely constrained, both Florida Gas Transmission, Inc. (FGT) or and Gulfstream is-Natural Gas System, LLC (Gulfstream) are required to notify the Florida Gas Utility (FGU), as the agent for FMPA, of the constraint

~~on their pipeline and inform FMPA/FGU of the amount of natural gas available. Immediately upon notification of the any constraint, FGU will notify FMPA of anticipated available gas volumes available for FMPA generating units. FMPA along with FGU will implement its plans plan to reduce its natural gas usage on the affected line(s). The plan is flow to FMPA units as follows:~~

~~During the time of the fuel emergency, any FMPA will notify the Florida Municipal Power Pool and request a modified commitment or redispatch that will consider the following:~~

- ~~10)1.~~ Any available purchase power available shall be utilized to the extent appropriate, taking into account relevant surrounding factors. All load management and interruptible load will be implemented and all non-firm sales will be terminated. Any natural gas available on the alternate pipeline will be utilized as deemed appropriate.
- ~~4)2.~~ If ~~more~~additional natural gas reduction is required, switching will be initiated on all units at Vero Beach units and KUA Hansel and, Cane Island units from natural gas (KUA), TCEC, and Oleander #5 shall start switching to an alternate the appropriate fuel oil.
- ~~4)3.~~ If further natural gas reduction is required; and there is available Key West will be notified to start all units. Vero Beach and Ft. Pierce will begin to Key West Tie line capacity, Key West shall start all units on fuel oil. Lake Worth shall take all units using natural gas off-line up to the MW amount that equals the amount supplied by the Key West units.
- ~~4)4.~~ If ~~more~~additional natural gas reduction is required, acquire the proper authorization from Florida Department of Environmental Protection (DEP) to allow the generating units to ~~violate~~exceed their stated permits.
- ~~4)5.~~ If all the above options have been utilized and FMPA is still using too much natural gas, FMPA willshall call on the other utilities for emergency power. If emergency power is available, FMPA will shall purchase the necessary amount of emergency power and reduce the natural gas fired units by ~~thethat~~ amount of MWsmegawatts purchased.
- ~~4)6.~~ If FMPA is still above the natural gas restriction after completion of all of these steps, FMPA willshall declare an emergency and go to its Capacity Emergency Plan to prepare for ~~reducing~~the implementation of load curtailment.

Fuel Oil Emergency Plan

Fuel oil is stored at all the generating sites mentioned previously. In general, for generation that can utilize natural gas, enough fuel oil is on site to run a unit at a 50% capacity factor for approximately 5 to 10 days ~~except for At Ft. Pierce. At Ft.~~

~~Pierce, some of the units are not permitted (due to environment constraints) to use fuel oil unless natural gas is not available. As such, only enough fuel oil is on site at Ft. Pierce for the units to run at a 25% capacity factor for approximately 5 to 10 days. If fuel oil shipments are delayed due to unforeseen circumstances, FMPA has several days to implement a change to alternate fuels. During that time period, FMPA will analyze the situation and determine the best plan to ensure in consideration of reliability in the most and cost-efficient manner. FMPA will utilize all alternate fuels and aggressively seek out purchase power to prevent power interruption.~~

Under any fuel emergency, FMPA plans to work with all utilities to prevent power interruption to any customer. If alternative fuels and purchase power are not available, FMPA will implement its Capacity Emergency ~~plan~~Plan to prepare for the possibility of ~~reducing~~load curtailment. The Capacity Emergency ~~plan~~Plan provides for notification to the State of Florida and the FRCC and ~~provides for~~details the method of ~~reducing~~that will be used in the event that ~~load~~ curtailment becomes necessary.

ATTACHMENT A

Operating Utility	Unit and MW Capability	Primary Fuel	Alternate Fuel
Vero Beach	Vero #1 — 11 MWs	Natural Gas	None
	Vero #2 (Heat Recovery unit) — 15 MWs	None	None
	Vero #3 — 33 MWs	Natural Gas	Oil
	Vero #4 — 54 MWs	Natural Gas	Oil
	Vero #5 — 35 MWs	Natural Gas	Oil
Ft. Pierce	King #5 (Heat Recovery unit) — 10 MWs	None	None
	King #7 — 28 MWs	Natural Gas	Oil*
	King #8 — 46 MWs	Natural Gas	Oil*
	King #9 — 21 MWs	Natural Gas	Oil
	King Diesels — 5 MWs	Oil	
Key West	Key West Ct #1 — 17 MWs	Oil	
	Key West Ct #2, #3 — 34 MWs	Oil	
	Medium Speed Diesels #1, #2 — 11 MWs	Oil	
	High Speed Diesels #1, #2, #3 — 4.5 MWs	Oil	
	CudJoe #1, #2 — 3 MWs	Oil	
	Big Pine — 1.5 MWs	Oil	
Lake Worth	T. G. Smith S 2 (Heat Recovery Unit) — 20 MWs	None	None
	T. G. Smith S 3 — 26 MWs	Natural Gas	Oil
	T. G. Smith GT 5 — 10 MWs	Natural Gas	Oil
	T. G. Smith GT 1 — 31 MWs	Oil	
	T. G. Smith MUs — 10 MWs	Oil	
KUA	Hansel 8 — 2 MWs	Natural Gas	Oil
	Hansel 14 — 2 MWs	Natural Gas	Oil
	Hansel 15 — 2 MWs	Natural Gas	Oil
	Hansel 16 — 2 MWs	Natural Gas	Oil
	Hansel 17 — 2 MWs	Natural Gas	Oil
	Hansel 18 — 2 MWs	Natural Gas	Oil
	Hansel 19 — 2.5 MWs	Oil	
	Hansel 20 — 2.5 MWs	Oil	
	Hansel CC — 45 MWs	Natural Gas	Oil
KUA	Cane Island CT #1 — 30 MWs	Natural Gas	Oil
	Cane Island CC #2 — 120 MWs	Natural Gas	Oil
	Cane Island CC #3 — 240 MWs	Natural Gas	Oil

Approvals required Operating Utility	Unit	Summer Capacity	Winter Capacity	Primary Fuel	Alternate Fuel
Vero Beach	Vero #1	11MW	12 MW	Natural Gas	None

FMPA Capacity Emergency Plan

	Vero #2 (Heat Recovery unit)	14 MW	21 MW	None	None
	Vero #3	28 MW	30 MW	Natural Gas	Oil
	Vero #4	48 MW	50 MW	Natural Gas	Oil
	Vero #5	31 MW	31 MW	Natural Gas	Oil
Ft. Pierce	TCEC	315 MW	315 MW	Natural Gas	Oil
Key West	Key West Ct #1	17 MW	18 MW	Oil	None
	Key West Ct #2, #3, #4	75 MW	77 MW	Oil	None
	Medium Speed Diesels #1, #2	16 MW	18 MW	Oil	None
	High Speed Diesels #1, #2, #3	5 MW	5 MW	Oil	None
Lake Worth	T. G. Smith S-2 (Heat Recovery Unit)	12 MW	13 MW	None	None
	T. G. Smith S-3	26 MW	26 MW	Natural Gas	Oil
	T. G. Smith GT 5	18 MW	20 MW	Natural Gas	Oil
	T. G. Smith GT 1	30 MW	30 MW	Oil	None
	T. G. Smith MUs	10 MW	10 MW	Oil	None
KUA	Hansel CC	45 MW	48 MW	Natural Gas	Oil
	Cane Island CT #1	30 MW	38 MW	Natural Gas	Oil
	Cane Island CC #2	112 MW	120 MW	Natural Gas	Oil
	Cane Island CC #3	250 MW	257 MW	Natural Gas	Oil
Southern Co.	Oleander #5	160 MW	160 MW	Natural Gas	Oil

* Due to the Florida Department of Environmental Protection constraints, oil will only be used if there is no natural gas available.