



ORIGINAL

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04 FEB -4 AM 10:16

February 2, 2004

COMMISSION
CLERK

Ms. Blanca S. Bayó, Director
Division of the Commission Clerk
and Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

(040000)

Re: General Load Reduction Plan of Progress Energy Florida

Dear Ms. Bayó:

The Florida Reliability Coordinating Council's Generating Capacity Shortage Plan, as adopted by Commission Rule 25-6.0183, F.A.C., specifies that "A copy of each individual [utility energy emergency plan] shall be maintained on file at the Florida Public Service Commission" Progress Energy Florida has recently adopted a new General Load Reduction Plan as its energy emergency plan, an original and seven copies of which are enclosed for filing pursuant to Rule 25-6.0183.

Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. Thank you for your assistance in this matter.

Very truly yours,

James A. McGee

JAM/scc
Enclosures

cc: The Florida Reliability Coordinating Council (with enclosure)

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CTR
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JPC
VMS
SEC
JTH

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DISTRIBUTION CENTER

DOCUMENT NUMBER-DATE

Procedure title

General Load Reduction and System Restoration Plan - Florida

Procedure number

EMG-PGNF-00001

Applies to. Progress Energy Florida, Inc.; Progress Energy Service Company, LLC

Keywords: emergency; corporate emergency and storm response plans

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1 Introduction and General Description

- 1.1 This General Load Reduction and System Restoration Plan ("Plan" or "GLRP") covers the guidelines followed by Florida Power Corporation (FPC) doing business as (d/b/a) Progress Energy Florida (PEF) in the event a system load reduction or system restoration is required.
- 1.2 In certain situations, it may be necessary to reduce the load on the PEF system to a level that can be safely maintained until either the system load diminishes and/or arrangements can be made for additional resources. Generation and load may also be balanced by initiating demand side management to reduce customer demand.
- 1.3 In the event of a partial or complete system shutdown or blackout (most likely the result of a catastrophic loss of generation), implementation of system restoration procedures will be necessary.
- 1.4 The phases included in the plan are as follows:

Phase 0	Normal Operations
Contingency Alert	Generation shortage anticipated System Red Light turned on ¹ Contingency coverage dependent on DSM

Phase 1 Alert	Anticipated curtailment of IS/CS
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Emergency Phases:

Phase 2	Emergency purchases for Interruptible Service (IS) and Curtailable Service (CS) customers DSM activated
Phase 3:	IS/CS curtailments implemented
Phase 4:	Emergency purchases for firm load
Phase 5	Automatic or manual interruption of firm load
Phase 6:	Reversal of load reduction steps and/or system Restoration

Each day a system assessment is performed to determine the need or likelihood to progress to alert or emergency phases of the plan depending on existing and projected system conditions. The Contingency Alert and Phase 1 Alert phases are preparatory and informational and are therefore designated as alerts. Phases 2-5 are the emergency phases of the plan where emergency actions are taken to preserve a balance between resources and system load. The application of the reliability phases of this

¹ When the system Red Light is turned on, non-essential work at power plants and critical substations stops and is deferred until a later time.

plan may be in any order and will depend upon the urgency and magnitude of the given situation.

2 Responsibilities

- 2.1** It shall be the responsibility of the Vice President - System Planning and Operations, or alternate, to place this General Load Reduction and System Restoration plan in effect. Any or all of the load reduction reliability phases may be authorized, either individually, progressively or concurrently, as needed, to respond to the situation. The communications responsibilities of each party and organization affected by this Plan are summarized in the communications charts following this section. Because the Florida Energy Control Center (ECC) will be the first to recognize a system blackout condition, they will initiate the restoration process directly to avoid unnecessary delays.

Any references to the Generation System Operator (GSO) or Transmission System Operator (TSO) taking actions throughout this Plan will be at the discretion of the Manager – Power System Operations (PSO) or designate if available time permits.

- 2.2** When the decision has been made to place in effect any Phase of this Plan, communications will be made as indicated in the Communications Chart at the end of this section. Corporate Communications should be notified as soon as any consideration is given to implementing any part of this Plan and should be notified when each Phase of the Plan is initiated and terminated.
- 2.3** The Florida ECC may implement load reduction actions outside of this Plan, such as voltage reductions and curtailable load service/interruptible standby service.

2.4 Power System Operations – Florida

- 2.4.1** Determine if load reduction is necessary and which Phase of the Plan is needed. The current status of the Plan shall be maintained on the General Load Reduction and System Restoration Status web page (see Appendix I or <http://nt000639/prod/glrp/SystemStatus.asp>).
- 2.4.2** Determine megawatts of load to be reduced manually or automatically and the geographic area(s) to be affected if Phase 5 is implemented.
- 2.4.3** Notify and provide Plan implementation information to other affected departments, sections and customers:
- Senior Management

- Vice President – Transmission - Florida
- Vice President – Distribution Operations and Support
- Manager – Energy Efficiency Services
- Manager, Regulated Portfolio Management
- Corporate Communications - 24 hour media contact
- Distribution Control Center (DCC)
- Power plant personnel

2.4.4 Directs system restoration activities

2.4.5 Provides required state and federal notifications and reporting as described in the Emergency Communications procedure (EMG-PGNF-00014).

2.5 Corporate Communications

2.5.1 Prepares/releases news announcements (see appendix F).

2.5.2 Notifies PEF department, section and unit managers to implement plans to reduce non-essential load on PEF premises.

2.5.3 Provides community relations managers, Commercial, Industrial and Governmental (CIG) Account Management, and Transmission Planning unit with copies of news releases and media advertisements.

2.5.4 Provides periodic status reports

2.6 Distribution Operations and Support

2.6.1 Vice President – Distribution Operations and Support or designee

- Notifies Region Vice Presidents and Managers to implement the Plan.

2.6.2 Distribution General Managers and Managers:

- Plan, prepare and implement the load reduction
- Coordinate plan implementation with other departments
- Restore power as directed by the ECC
- Maintain records

2.7 Energy Efficiency Services (CIG account management)

2.7.1 Asks major industrial and commercial customers to reduce loads.

2.7.2 Assist Community Relations Managers with local media relations.

2.7.3 Notify major industrial and commercial customers of feeder rotations during Phase 5.

2.8 Call Center Managers

2.8.1 Staff phone lines to address customer inquiries

2.8.2 Notify life support customers of impending feeder rotations

2.9 DCC Manager

2.9.1 Use the Distribution Automatic Load Shed (DALs) program to obtain customer notifications prior to feeder interruption where required and manage feeders dropped and restored.

2.9.2 Support load reduction/restoration effort as directed by ECC.

2.10 Transmission Department

Support load reduction/restoration effort as directed by ECC.

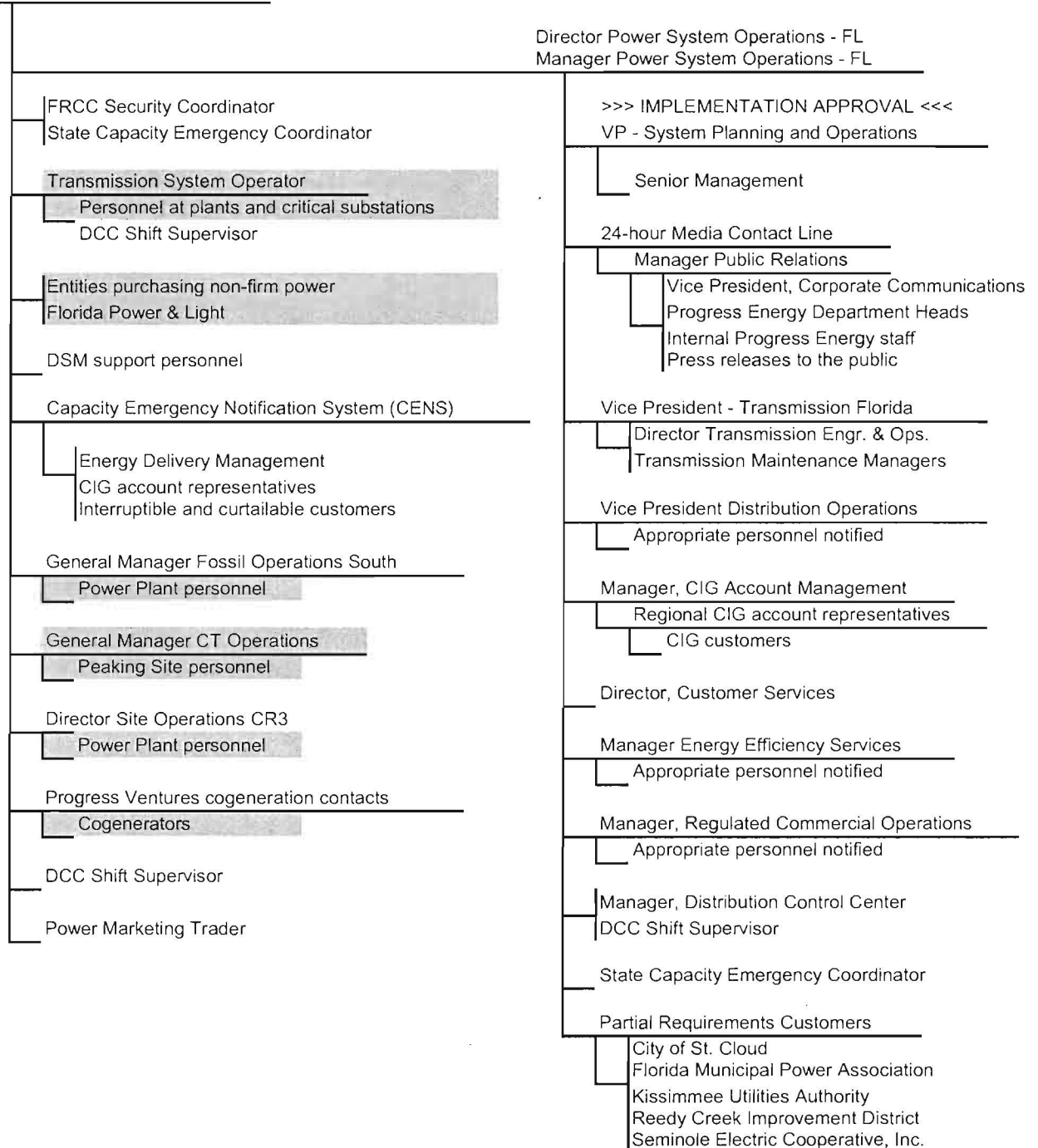
2.11 Senior Management

No plan specific activities are required outside of normal responsibilities.

COMMUNICATIONS CHART CONTINGENCY ALERT

Energy Control Center
Generation System Operator

Note: Shading indicates implementation action required

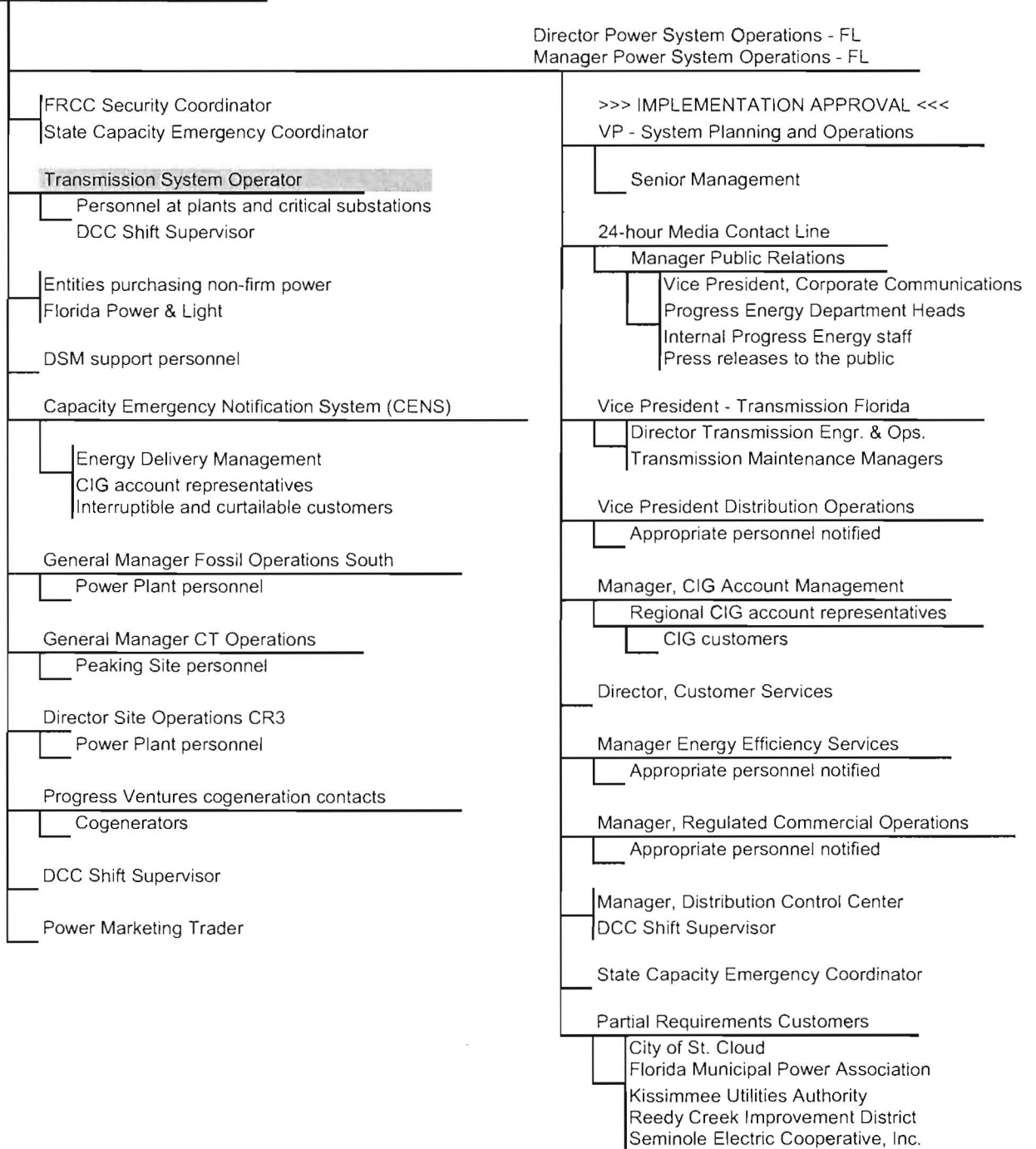


COMMUNICATIONS CHART

PHASE 1 ALERT

Energy Control Center
Generation System Operator

Note: Shading indicates implementation action required

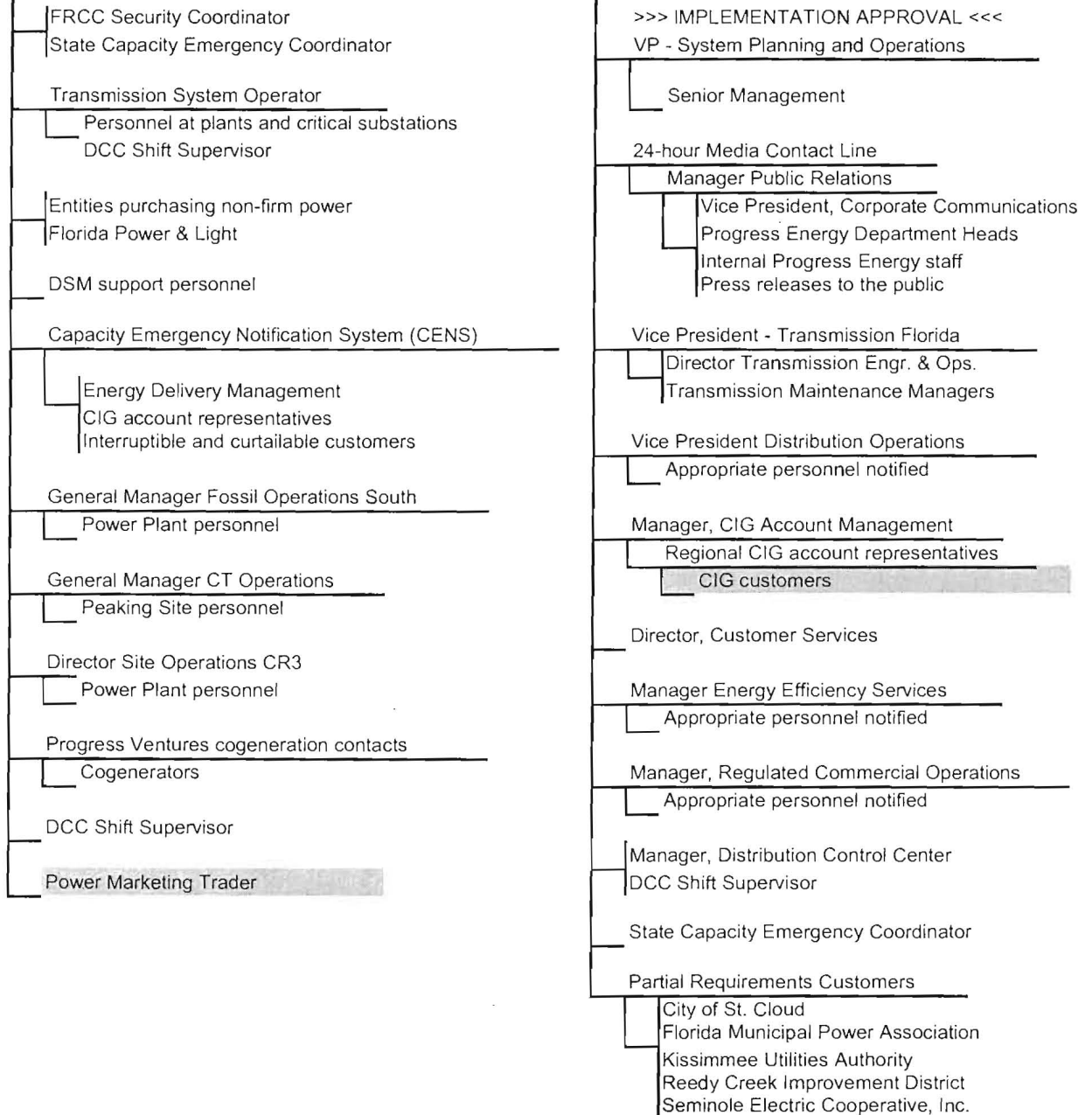


COMMUNICATIONS CHART PHASE 2 EMERGENCY

Energy Control Center
Generation System Operator

Note: Shading indicates implementation action required

Director Power System Operations - FL
Manager Power System Operations - FL



COMMUNICATIONS CHART PHASE 3 EMERGENCY

Energy Control Center
Generation System Operator

Note: Shading indicates implementation action required

Director Power System Operations - FL
Manager Power System Operations - FL

FRCC Security Coordinator
State Capacity Emergency Coordinator

>>> IMPLEMENTATION APPROVAL <<<
VP - System Planning and Operations

Transmission System Operator

Senior Management

Personnel at plants and critical substations
DCC Shift Supervisor

24-hour Media Contact Line

Manager Public Relations

Entities purchasing non-firm power
Florida Power & Light

Vice President, Corporate Communications
Progress Energy Department Heads
Internal Progress Energy staff
Press releases to the public

DSM support personnel

Capacity Emergency Notification System (CENS)

Vice President - Transmission Florida

Energy Delivery Management
CIG account representatives
Interruptible and curtailable customers

Director Transmission Engr. & Ops.
Transmission Maintenance Managers

Vice President Distribution Operations

General Manager Fossil Operations South

Appropriate personnel notified

Power Plant personnel

Manager, CIG Account Management

General Manager CT Operations

Regional CIG account representatives
CIG customers

Peaking Site personnel

Director, Customer Services

Director Site Operations CR3

Power Plant personnel

Manager Energy Efficiency Services

Progress Ventures cogeneration contacts

Cogenerators

Manager, Regulated Commercial Operations

DCC Shift Supervisor

Appropriate personnel notified

Power Marketing Trader

Manager, Distribution Control Center

DCC Shift Supervisor

State Capacity Emergency Coordinator

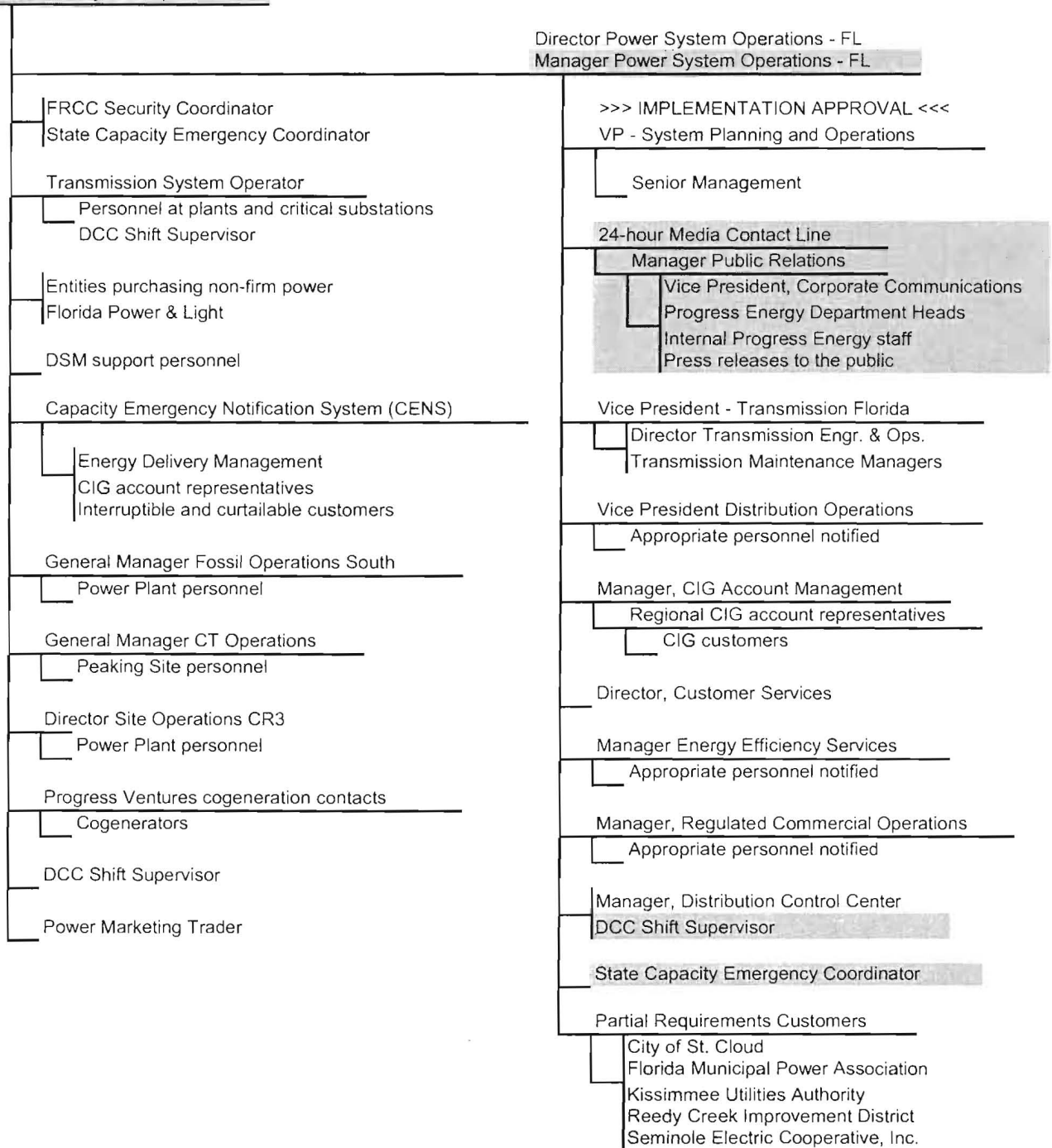
Partial Requirements Customers

City of St. Cloud
Florida Municipal Power Association
Kissimmee Utilities Authority
Reedy Creek Improvement District
Seminole Electric Cooperative, Inc.

COMMUNICATIONS CHART PHASE 4 EMERGENCY

Energy Control Center
Generation System Operator

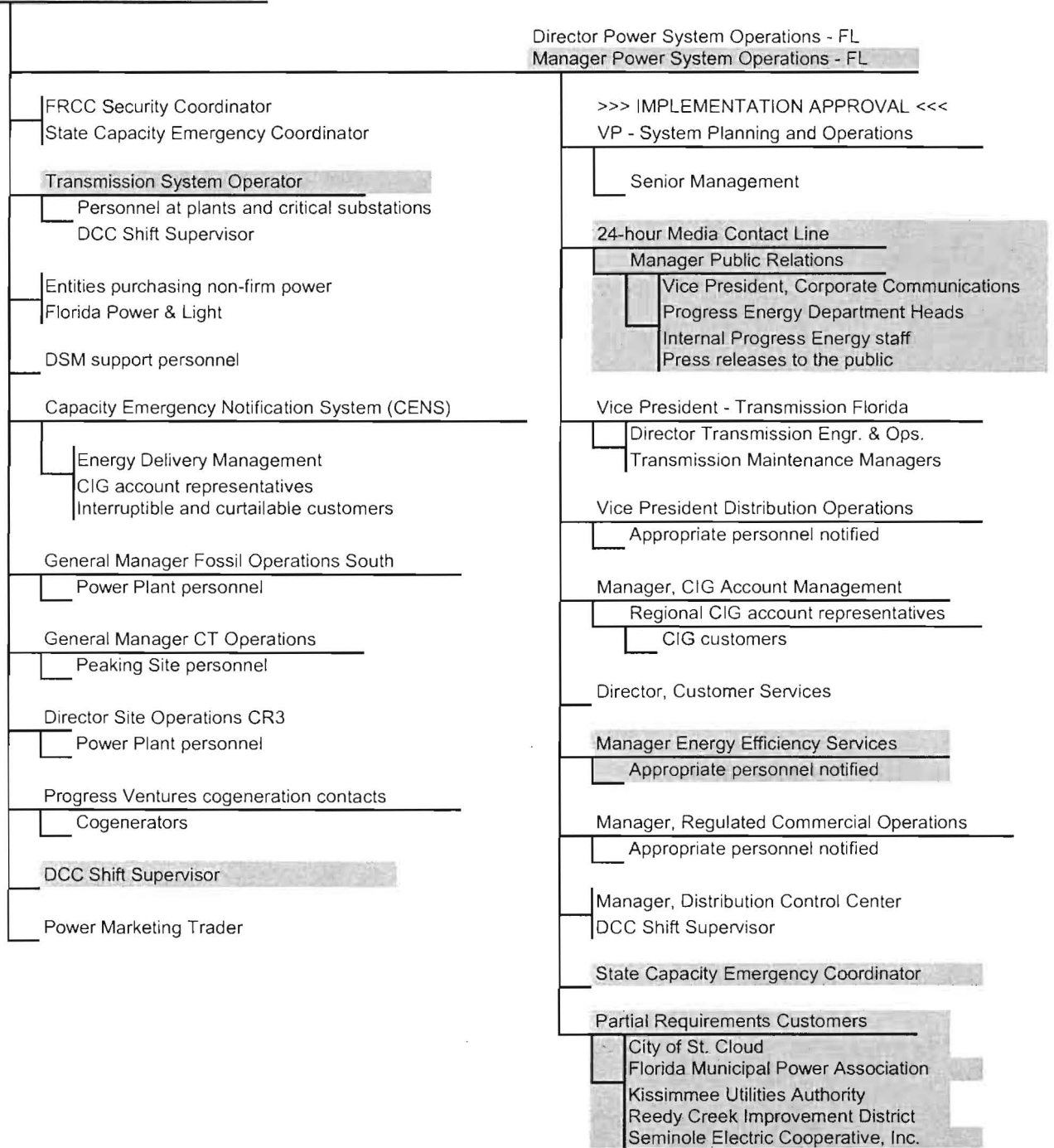
Note: Shading indicates implementation action required



COMMUNICATIONS CHART PHASE 5 EMERGENCY

Energy Control Center
Generation System Operator

Note: Shading indicates implementation action required



3 Summary of Capacity Emergency Alert Phases/Levels

PEF Phases	FRCC Levels	NERC Levels
<p>Contingency Alert: Turn Energy Management System (EMS) Red Light ON when system margin falls below actual output of largest unit plus operating reserves (1,100 MW) and begin communications. Curtail non-firm sales, maximize peaker and cogen output.</p> <p>Phase 1: Declared when there is a significant probability that service to interruptible customers will be interrupted.</p>	<p>Advisory: Based on temperature triggers up to three days out, utilities issuing public appeals, or potential natural gas supply disruption.</p>	<p>Alert 1: All available resources are in use. Non-firm energy sales have been curtailed. Concern over reserves.</p>
<p>Phase 2: Declared when emergency purchases begin to support IS/CS customers.</p> <p>Phase 3: Declared when sufficient emergency power is not available to continue serving IS/CS customers.</p> <p>Phase 4: Declared when it is highly probable that firm load will be curtailed unless public conservation efforts are effective in sufficiently reducing demand.</p>	<p>Alert: FRCC operating margin is such that loss of largest unit will require interruption of firm load in Florida or disruption of gas pipeline(s) service region will adversely affect generation capacity in the FRCC region.</p>	<p>Alert 2: Load management in effect. Procedures may include public appeals, voltage reduction, DSM, curtailment of non-firm load, conservation measures. Firm load not interrupted.</p>
<p>Phase 5: Declared when firm load will need to be curtailed in order to balance load and available capacity.</p> <p>Phase 6: System restoration and termination of emergency by executing phases in reverse order as necessary.</p>	<p>Emergency: One or more utilities cannot supply firm load obligations</p>	<p>Alert 3: Firm load interruption imminent or in progress. Continuation of all Alert 2 actions.</p>
<p>Phase 0: Normal Operations</p>	<p>Restoration: Load reduction terminated and supply is adequate.</p>	<p>Alert 0: Notice used to terminate NERC alert.</p>

4 System Assessment Protocol

This section describes the capacity assessment and communications process used each day to develop an operational plan for the PEF system.

4.1 Daily Plant Communications

The GSO communicates with PEF generation sites at approximately 0500 to determine the current status and near term outlook for PEF generation.

4.2 Daily Load Forecasting

The PEF load forecast is reviewed and revised twice each day, by 0700 and 1400. Additional forecast reviews and/or revisions may be initiated by the Manager, PSO or by the load forecaster in either Raleigh or Florida based on changing system conditions. Forecasts for weekends and holidays are handled by multi-day forecasts prepared prior to the days in question combined with forecast revisions on an as-needed basis.

4.3 Daily Capacity Assessment and Operating Plan

PSO completes a daily internal capacity assessment for the PEF system including generation availability, load forecast and reserve margin. This information serves as the basis for internal planning to meet projected load levels.

PSO participates in a daily conference call with Regulated Portfolio Management, power marketing, the fuels group, and the DSM group to develop an operating plan based on the current capacity assessment. This conference call takes place at 7:30 AM on weekdays and at 9:30 AM on weekends and holidays. This discussion results in plans and decisions regarding daily power purchases and sales as well as contingency plans to meet system load levels. The GSO also maintains hourly contact with power marketing personnel throughout the day.

The PEF system capacity assessment is also submitted to the State Capacity Emergency Coordinator (SCEC) as part of the Florida Reliability Coordinating Council (FRCC) daily capacity assessment process. This capacity assessment is due by 9:00 AM during summer months for the current day's peak, and by 11:00 AM during winter months for the following morning's peak. These seasonal changes generally take place on or about April 1 and November 1 and are coordinated by the FRCC and SCEC.

4.4 Daily DSM Probability Communications

PSO provides Load Management personnel with daily probability estimates for the use of load management strategies. If the probability for the day is greater

than “unlikely” PSO will contact the DSM group to provide probabilities for the day. Projections are also provided for weekend and holiday days, and these estimates are updated each day in the event that there is a change from the original estimates. These probability estimates are communicated to IS/CS customers and PEF field personnel to provide an early indication of the potential for load curtailments and interruptions for the current day (summer) or following day (winter).

4.5 Assessment of Generation De-rations Due to POD Limitations

If point of discharge (POD) temperature limits at Crystal River becomes a problem during a capacity emergency, the Manager, PSO will first evaluate all available options to seek or exercise a waiver of POD limitations. If the deration of generation is required, determine which Crystal River unit (1, 2 or 3) will reduce generation to avoid exceeding the POD limit.

4.5.1 The Crystal River plant personnel will determine the generation reduction necessary for the selected unit.

4.5.2 If Phase 5 (feeder rotation) is probable, first reduce generation from CR3, up to a maximum of 191 MW, which will decrease the POD temperature by 2° F. If additional MW reduction is needed, reduce at CR2 next and then CR1.

4.6 Implementation of the Plan

4.6.1 The phases of the Plan may be declared and executed in any order as required by system circumstances. When the peak of an event has passed and restoration activities or a return to normal system operating conditions is in progress, a Phase 6 restoration should be declared in conjunction with the execution of the GLRP phases in reverse order as appropriate.

4.6.2 Notifications in the early stages of Plan execution may be pre-positioned out of the normal time sequence indicated in the Plan in order to provide adequate advance notice of changing conditions. This will depend on the extent of available advance notice of the approaching capacity emergency, the timing relative to weekend and holiday periods, and seasonal factors. For example, notifications for weekend events should begin on Friday and public appeals for winter peaks should begin the prior day when sufficient certainty regarding the impending emergency permits.

5 Contingency Alert Procedure (Red Light On)

Prerequisites:



A contingency alert is declared when the system's generating capacity margin falls below the actual output of the single unit carrying the greatest amount of load plus PEF operating reserve requirements (approximately 1,100 MW in total), or when required due to other system conditions.



Communication and



Implementation Steps:



The GSO will notify the Manager, PSO, the Director, PSO and the SCEC of system conditions.
Preston Pierce Office 220-4565 Cell (727) 409-0450
Eric Grant Office 220-4814 Cell (727) 580-1826



The GSO will notify other System Operators on duty of the situation.



The GSO will toggle the EMS Red Light status to ON.



The GSO will notify all generation sites that the EMS Red Light is now ON.



The GSO will request that the TSO instruct all personnel logged into power plant and 500 kV substations to cease work and exit substations due to EMS Red Light ON condition.



The GSO will notify the FRCC Security Coordinator (SC) of the situation at (305) 442-5748.



The GSO will update the GLRP system status web page for the Contingency Alert.



The GSO will curtail all PEF non-firm sales and notify the purchasing entities that curtailments are being implemented.



During winter periods only, the GSO will curtail the Florida Power & Light (FPL) 150 MW sale schedule if either (a) pool pumps and water heaters are controlled, (b) DSM equivalent to pool pumps and water heaters are controlled or, (c) we have "bought out" of pool pumps and water heaters. Notify FPL that the 150 MW sale schedule is being curtailed.



During summer periods only, the GSO will increase CT output by initiating fogging at Intercession City and Debary.

Contingency Alert Procedure (Red Light On) (Continued)

- C6** The GSO will notify demand side management contacts to prepare for possible Phase 1.

Primary DSM/CENS contact	Pete Kaszuba	Office 220-3612	Cell (727) 580-6155
Backup DSM/CENS contact	Brian Constantine	Office 220-4576	Cell (727) 409-1188
DALS contact	Jim Boaz	Office 220-4892	Cell (727) 510-0922

Note: Load Management may be used for reserves if we are confident that LM will not need to be used to reduce system load. Under no circumstances should LM be double counted for reserves and load reduction purposes.

- I6** The GSO will contact the CT manager in the event that peaker sites need to be manned. The contact is Paul Crimi, Office 230-4224; Cell (727) 580-7423

- I7** The GSO will request that co-generators maximize output during the period of expected capacity shortage. Co-generation contacts at Progress Ventures are:

Primary contact	Dave Gammon	Office 230-4597	Cell (727) 432-1746
Secondary contact	Tamara Waldman	Office 230-4517	Cell (727) 480-3884

- I8** The GSO will contact plant managers regarding freeze protection preparations if required by weather conditions. Contacts are:

Fossil:	Charlie Gates	Office 240-6335	Cell (352) 464-7430
CTS:	Paul Crimi	Office 230-4224	Cell (727) 580-7423
Nuclear:	Daniel Roderick	Office 240-3219	Cell (352) 422-8484

- C7** The GSO will notify the DCC supervisor on duty (220-4394) of system conditions and the possible need to implement any of the three levels of voltage reduction. Voltage reductions will generally be implemented for levels 1 or levels 1 and 2 at the appropriate time when required by system conditions. Level 3 voltage reductions are implemented prior to initiating feeder rotations during Phase 5.

- C8** The GSO will notify the Power Marketing trader on duty (919-546-7161) of system conditions and to prepare for implementation of emergency purchases.

6 Phase 1 Capacity Alert Procedure

Prerequisites:

- ☐ A Phase I Capacity Alert is declared when there is a significant probability that service to interruptible commercial and industrial customers will be interrupted.

C Communication and **I** Implementation Steps:

- I1** The GSO and TSO will begin recording all relevant events and their times of occurrence for the duration of the capacity event.

- C1** The GSO will notify the Manager, PSO and Director, PSO of system conditions.
Preston Pierce Office 220-4565 Cell (727) 409-0450
Eric Grant Office 220-4814 Cell (727) 580-1826

- I2** The GSO will declare a Phase 1 Generating Capacity Alert condition by initiating a Phase 1 Alert in the EMS system and the Phase 1 strategy in the DSM program.

The CENS system will automatically send the 'Phase 1 - Capacity Alert Order-of-Day' notification message to PEF internal personnel and IS/CS customers. When DSM strategies for Phases 1, 2, or 3 are activated or terminated, CENS panels at customer locations indicate the system status and text pager messages are sent to PEF internal personnel and IS/CS customers on PEF provided pagers.

When IS/CS customers receive the Phase 1 Capacity Alert notification (amber CENS panel light is 'ON') they are aware that PEF may find it necessary to open breakers and switches to their loads.

When the CIG representatives receive a pager message indicating a Phase 1 Capacity Alert condition exists, they will contact the cogeneration facilities they are responsible for and request or confirm that these facilities are maximizing unit output.

- C2** The GSO will update the GLRP system status web page for the Phase 1 Alert.

- C3** The Manager, PSO will notify Corporate Communications of the Phase 1 condition. Contact 24-hour hotline at 230-5060.

Phase 1 Capacity Alert Procedure (Continued)

C4 The Manager, PSO will notify PE management of the Phase 1 condition.

VP SPOD	Erik Hansen	Office 770-7565	
VP Trans	Sarah Rogers	Office 280-2254	Cell (407) 810-3164
VP Dist Ops	Robert Sipes	Office 280-2460	Cell (321) 277-6549
Dir Cust Serv	Martha Barnwell	Office 220-5672	Cell (727) 409-7859
Dir O&A Mgmt	Robert Niekum	Office 230-4550	Cell (727) 480-6597
Mgr Egy Serv	Laura Boisvert	Office 280-2669	Cell (407) 342-7490
Mgr RCO	Mark Oliver	Office 770-5592	Cell (919) 812-3062
Mgr DCC	David McDonald	Office 220-4373	Cell (727) 418-9463
Super DCC	Duty Supervisor	Office 220-4394	

I3 The GSO will implement DSM strategies (excluding interruption of IS/SC customers) when deemed most appropriate.

DSM can be implemented as outlined in Appendix A. Note that implementation of all DSM may be required prior to implementation of a Phase 2 Capacity Emergency when the only source of emergency power is Florida Power & Light (FP&L) Schedule AF emergency power. FP&L has requested that requests for Schedule AF power be made through their marketing affiliate.

In the event that level 1 or level 1 and 2 voltage reductions are implemented, the TSO will contacts the DCC by phone to request the activation of voltage reductions. If time permits, the EMS is used to send a secondary message making this request. The DCC then implements the voltage reduction request for each distribution area of control.

C5 The GSO will notify the Power Marketing trader on duty (919-546-7161) of system conditions and to prepare for implementation of emergency purchases for IS/CS customers.

7 Phase 2 Capacity Emergency Procedure

Prerequisites:

- ☐ A Phase 2 Capacity Emergency is declared when off-system emergency purchases begin to support service to IS/CS customers. In the event that emergency purchases are not available, proceed directly to the Phase 3 capacity emergency procedure if system conditions warrant.

C Communication and **I** Implementation Steps:

- C1** The GSO will notify the Manager, PSO, Director, PSO and the SCEC of system conditions.
Preston Pierce Office 220-4565 Cell (727) 409-0450
Eric Grant Office 220-4814 Cell (727) 580-1826

- I1** The GSO will contact Power Marketing to request the purchase of the required amount of emergency power from neighboring utilities.

Emergency power may be purchased under provisions of filed interchange contracts (see appendix H for a summary of terms and conditions). PEF will make every effort to purchase emergency power to serve our IS/CS customers. PEF will not interrupt IS/CS load to serve another companies interruptible load.

PEF will interrupt IS/CS load to serve another company's firm load and avoid firm load curtailment. Before purchasing emergency power, PEF will inform the selling utility that the purchase will be used to serve interruptible load. The selling utility will have the discretion to sell or not sell emergency power to PEF to serve interruptible load. In the case of FP&L, all DSM must be implemented prior to the purchase of Schedule AF energy. If the only source of emergency power is FP&L, or if there is not sufficient emergency energy from other sources to meet our deficiency, a Phase 3 emergency will be declared.

If appropriate, the GSO will request that Power Marketing attempt to purchase energy against DSM.

- I2** When emergency purchase schedules begin, the GSO will declare a Phase 2 Generating Capacity Emergency condition by initiating a Phase 2 Emergency in the EMS system and the Phase 2 strategy in the DSM program.

- C2** The GSO will update the GLRP system status web page for the Phase 2 Alert.

- C3** The Manager, PSO will notify Corporate Communications of the Phase 2 condition. Contact 24-hour hotline at 230-5060.

Phase 2 Capacity Emergency Procedure (Continued)

- | | |
|-----------|--|
| C4 | The Manager, PSO will notify the DCC Supervisor on duty (220-4394) of the Phase 2 condition and the potential need to implement level 1 or level 1 and 2 voltage reductions. |
| C5 | If the SCEC has declared a Generating Capacity Alert or Generating Capacity Emergency for the state, the Manager PSO will notify the SCEC of PEF's dependence on emergency power purchases at this time. |

8 Phase 3 Capacity Emergency Procedure

Prerequisites:

- ☐ A Phase 3 Capacity Emergency is declared when it is determined that sufficient emergency power is not available to continue serving IS/CS customer load.

C Communication and **I** Implementation Steps:

- C1** The GSO will notify the Manager, PSO, Director, PSO and the SCEC of system conditions.
Preston Pierce Office 220-4565 Cell (727) 409-0450
Eric Grant Office 220-4814 Cell (727) 580-1826

- C2** The GSO will notify the FRCC Security Coordinator (SC) of system conditions. Contact phone number is (305) 442-5748.

- C3** The GSO will notify the DCC supervisor on duty (220-4934) of system conditions and the possible need to implement level 1 or level 1 and 2 voltage reductions.

- C4** The Manager, PSO will notify Corporate Communications of the Phase 3 condition. Contact 24-hour hotline at 230-5060.

- I1** Request that the 5.25 MW standby generator at the Florida State Hospital be started. Contact Lee Garner, Chattahoochee City Manager, Office (850) 663-4475, Cell (850) 567-5004. A one hour notice is required to start the generator and the generators may be requested to run for up to five hours per request.

- I2** The GSO will declare a Phase 3 Generating Capacity Emergency condition by initiating a Phase 3 Emergency in the EMS system and the Phase 3 strategy in the DSM program. This action will be taken as soon as it can be determined that IS/CS customer interruptions are unavoidable in order to provide advance notice of interruptions.

The CENS system will automatically send the 'Phase 3' notification messages to internal PEF personnel and IS/CS customers. This action initiates text and fax messages and turns on the customers' CENS box notification panel light (red light on), indicating that power curtailments are imminent.

When IS customers receive notification of a Phase 3 Emergency, they must reduce their load to zero. They also know that PEF will curtail their load as necessary by opening breakers and/or switches within a very short time.

When CS customers receive notification of a Phase 3 Emergency, they must reduce their loads to their non-curtailable demand level.

Phase 3 Capacity Emergency Procedure (Continued)

C5

The GSO will update the GLRP system status web page for the Phase 3 Alert.

I3

The TSO starts the ECC generator.

I4

The GSO will increase CT output by instructing CTs to go to "peak load" for those CT units not already fogging.

I5

The GSO will interrupt service to IS/CS customers. If possible, interruption will occur no less than 30 minutes after declaring a Phase 3 Emergency condition or when required by system conditions.

The GSO initiates IS/CS customer interruptions by activating the required DSM 'LM ISCS TRIP' group strategy. IS/CS customers are divided into three letter Groups, A, B and C. Initiate the corresponding letter group strategy in the DSM program to trip each of the three letter groups.

The CENS system will automatically send the 'Phase 3' pager notification messages to internal PEF personnel and the affected group (A, B or C) of IS/CS customers indicating that IS/CS customer load interruptions have begun.

C6

The Manager, PSO will notify the Manager, Energy Efficiency Services that IS/CS customers have been interrupted. Contact is Laura Boisvert Office 280-2669 Cell (407) 342-7490

The regional CIG representatives will verify that all interruptible loads have been tripped by contacting IS/CS customers to verify compliance with the procedures. When required, field personnel will be dispatched to customer sites to ensure that the flow of power has been interrupted.

I6

The GSO notifies the TSO to trip EMS IS/CS customers by SCADA control (see EMS display MASTER, IND UFR GRP A, B, C) at the same time as those tripped by the DSM program. The same groups of IS/CS customers should be tripped in the EMS program as those tripped in DSM program. EMS group displays are found on the Master Menu display as IND UFR GRP. IND UFR ALL permits tripping of all three groups at once.

The TSO also checks each IS/CS customer's under-frequency relay to ensure it has tripped in the EMS System. Trip under-frequency relays and/or opens switches by supervisory control to any IS/CS customer group as required.

Phase 3 Capacity Emergency Procedure (Continued)

17 The TSO will also interrupt the two wholesale interruptible customers on the PEF system, Clay-Haile and Peacock-IMC. These two customer loads are to be interrupted in full and at the same time (simultaneously, if possible). Both of these customers are on the Interruptible General Service (Optional Time of Use Rate) Schedule.

C7 The Manager, PSO will notify the DCC Supervisor on duty (220-4394) of the Phase 3 condition and the potential need to implement level 1 or level 1 and 2 voltage reductions.

9 Phase 4 Capacity Emergency Procedure

Prerequisites:

- ☐ A Phase 4 Capacity Emergency is declared when it is anticipated that firm load will have to be curtailed unless public conservation efforts are effective in sufficiently reducing demand.

C Communication and **I** Implementation Steps:

- C1** The GSO will notify the Manager, PSO, Director, PSO and the SCEC of system conditions.
Preston Pierce Office 220-4565 Cell (727) 409-0450
Eric Grant Office 220-4814 Cell (727) 580-1826
- I1** The GSO will declare a Phase 4 Generating Capacity Emergency condition by initiating a Phase 4 Emergency in the EMS system and the Phase 4 strategy in the DSM program.

The CENS system will automatically send the 'Phase 4' pager notification messages to internal PEF personnel and IS/CS customers.
- C2** The GSO will update the GLRP system status web page for the Phase 4 Alert.
- I2** The Manager, PSO will notify Corporate Communications of the Phase 4 condition and request that Corporate Communications initiate public appeals for conservation and internal communications to curtail internal PEF load. Contact 24-hour hotline at 230-5060
- C3** The Manager, PSO will notify the DCC Supervisor on duty (220-4394) of the Phase 4 condition and the potential need to implement any or all levels of voltage reductions and prepare to implement feeder rotations (DALS program) if necessary.

10 Phase 5 Capacity Emergency Procedure

Prerequisites:

- ☐ A Phase 5 Capacity Emergency is declared when firm load will have to be curtailed in order to balance the load with available capacity.

C Communication and **I** Implementation Steps:

- C1** The GSO will notify the Manager, PSO, Director, PSO and the SCEC of system conditions.
Preston Pierce Office 220-4565 Cell (727) 409-0450
Eric Grant Office 220-4814 Cell (727) 580-1826

- C2** The GSO will notify the FRCC Security Coordinator (SC) of system conditions. Contact phone number is (305) 442-5748.

- I1** The GSO will declare a Phase 5 Generating Capacity Emergency condition by initiating a Phase 5 Emergency in the EMS system and the Phase 5 strategy in the DSM program. Whenever possible, the ECC will provide a thirty-minute notice to the DCC supervisor on duty before initiating the interruption of firm load in the DALS program.

The CENS system will automatically send the 'Phase 5' notification messages to internal PEF personnel and IS/CS customers.

- C3** The GSO will update the GLRP system status web page for the Phase 5 Alert.

- I2** The Manager, PSO will notify Corporate Communications of the Phase 5 condition and request that Corporate Communications begin notification to PEF internal personnel and the public that it will be necessary to curtail power to firm customers. Corporate Communications will also continue public appeals for conservation and internal communications to curtail internal PEF load. Contact 24-hour hotline at 230-5060.

- C4** The Manager, PSO will notify PE management of the Phase 5 condition.

VP SPOD	Erik Hansen	Office 770-7565	
VP Trans	Sarah Rogers	Office 280-2254	Cell (407) 810-3164
VP Dist Ops	Robert Sipes	Office 280-2460	Cell (321) 277-6549
Mgr DCC	David McDonald	Office 220-4373	Cell (727) 418-9463

- C5** The TSO will notify the DCC Supervisor on duty (220-4394) of the Phase 5 condition, the plan to implement level 3 voltage reductions, and impending feeder rotation (DALS program activation).

Phase 5 Capacity Emergency Procedure (Continued)

- | | |
|-----------|--|
| 13 | The TSO will implement level 3 voltage reductions to avoid or mitigate prospective feeder rotations. |
| 14 | <p>The following steps will be taken when firm load is interrupted on a rotating basis:</p> <p>Feeder rotations are accomplished both automatically and manually. The DALS program controls many feeders located within our service area. (see Appendix C for DALS program overview). It is very important that the GSO use the Load Management program following the Load Management Schedule on the EMS DALS display LDSD during any DALS program operation. For those feeder breakers not under control of the DALS program, manual rotation by the DCC is necessary.</p> <p>DCC dispatchers will follow their respective emergency plans for firm load reductions. When implementing firm load reductions, critical customers such as hospitals, municipal and county service facilities such as sewage and water pumping stations, should only be included in the rolling blackouts after they have been notified of the situation.</p> |
| 15 | The Manager, PSO will contact the Manager, Energy Efficiency Services who in turn will notify appropriate personnel to request that wholesale customers curtail their load in proportion to our curtailments. Contact is Laura Boisvert Office 280-2669 Cell (407) 342-7490 |
| 16 | The Manager, PSO will contact the Florida Municipal Power Association (FMPA), Reedy Creek Improvement District (RCI), Kissimmee Utilities Authority (KIS), St. Cloud (STC), and Seminole Electric Cooperative, Inc. (SECI) directly and inform them that their contracted PR is being reduced in proportion to PEF firm load curtailment. |

11 Phase 6 System Restoration Process

System restoration will be controlled and coordinated by the ECC. Under most circumstances, system restoration will consist of reversing the order of Phases 1 through 5 as sufficient generation becomes available to restore and serve total system load. However, when the load reduction event has resulted in widespread outages or segmentation of the bulk power transmission system, more extensive steps may be required to restore the system to normal operating conditions. All field personnel and organizations involved in the restoration process will receive restoration instructions from the ECC.

11.1 Restoring power has the following priority:

- 11.1.1** The highest possible priority should be given to restoring power to the 230 kV system and yard serving the nuclear plant (CR3) as quickly as possible. All options should be considered, including restoring power from the external, energized grid as well as from black start sources at Intercession City or Bayboro. The method that results in the minimum restoration time for CR3 should be implemented. In the event that incoming transmission lines to the nuclear plant are damaged, the highest priority should be assigned to the repair and restoration of these facilities to re-establish at least one line capable of supplying power to the nuclear plant.
- 11.1.2** Second, power should be restored to the Energy Control Center.
- 11.1.3** Restore startup power to all available generating units. Notify plant operators before energizing a system up to a generator.
- 11.1.4** Re-energize oil filled pipe cables within 30 minutes or verify that the oil pressure is higher than 100 psi. Monitor system voltages and do not energize cable if voltage is high - wait until voltage drops.
- 11.1.5** Energize major transmission circuits. The TSO must carefully watch generators and tie lines to avoid system separation or high/low voltage runaway during restoration. During the early stages of restoring the transmission grid, lines will be stripped of load before being energized. Stripping will be done by field personnel as directed by the ECC. In the later stages of the restoration process, lines may be energized with their loads attached. Once the transmission grid lines have been restored and generation is available, the ECC will direct Energy Delivery personnel to reconnect customer load.

11.2 Factors to Consider in Restoration Process

- 11.2.1** Restore the de-energized system from the interconnected energized system rather than by blackstart, if possible.
- 11.2.2** Determine the available generation and transmission capacity.
- 11.2.3** In restoring the system, use a controlled sectionalizing (step ladder) approach.
- 11.2.4** Maintain proper frequency, voltage, line loading and generator loadings within the emergency limits at all times. Consider that cold load pickup takes about 30 minutes to levelize.
- 11.2.5** Open shunt capacitors and close shunt reactors before re-energizing long unloaded transmission lines.
- 11.2.6** Minimize the number of switching operations until station service is re-established. Station batteries have limited stored energy.
- 11.2.7** Concentrate on those stations which have ATB and SF6 breakers, oil pumping stations and microwave facilities.

11.3 Methods for Controlling Voltage

- 11.3.1** Use shunt capacitors to raise voltage and reactors to lower voltage.
- 11.3.2** Transformer taps.
- 11.3.3** High voltage cables should be treated as a capacitor.
- 11.3.4** If a line is loaded to its surge impedance loading level (see Appendix G), the system voltage will not be affected by this line.
- 11.3.5** Generator voltage regulation.

11.4 Methods for Controlling Line Loading

- 11.4.1** Line sectionalizing
- 11.4.2** Generation adjustments
- 11.4.3** Reactive adjustments
- 11.4.4** Load energizing sequence
- 11.4.5** Load shedding, including load management, voltage reduction, dropping non-firm customers and dropping firm customers

(Distribution Automated Load Shed)

11.5 Method for Controlling Frequency

If the blackout area is restored separately from the interconnected system, the frequency should be held within acceptable limits. If a second tie with the interconnected system is desired, the voltages on the opposite sides of the breaker which is about to be closed must be nearly the same magnitude and phase angle or the sync check relay will not close. Otherwise, this requires actual synchronizing equipment and qualified technicians.

11.6 Blackout Avoidance in Pinellas County

The system operator should quickly assess line overloads for the Brookridge South corridor and take the appropriate remedial action as follows:

11.6.1 Transmission Switching

- Restore failed lines (close breakers).
- Sectionalize 115KV and 69KV lines which are over emergency rating 120% of normal rating) - only if generation rescheduling is not effective.

11.6.2 Load and System Adjustments

- Activate voltage reduction (call DCC shift supervisor)
- Activate load management.
- Activate interruptible industrial purchases.

11.6.3 Generation Re-Scheduling

- Reduce Crystal River generation (all units except CR3).
- Ramp up Suncoast generation (MW and MVAR) if on line - Anclote, Bartow, and Pinellas County Resource Recovery.
- Start Bayboro peakers (if not already on line).

11.6.4 Purchase TECO energy and/or energy from FPL's southwest area.

11.7 Load Shedding

Normally it is against the nature of the system operator to drop or rotate load to resolve system problems. However, it should be realized that it is better to drop load and recover quickly than risk collapse of the system.

As a guideline, if the load on a 230KV line exceeds 150% of the normal line rating, or the system voltages are 90% or less of the minimum system parameter voltages (for emergency conditions, see Appendix G), firm load may be tripped or rotated to reduce the loading to its emergency rating (Distribution Automated Load Shed).

11.8 Restoration Procedures for Pinellas County

11.8.1 Determine boundaries of blackout -lines out

11.8.2 Notification (Interchange System Operator)

11.8.2.1 ECC Supervision.

11.8.2.2 Other utilities (hot line) - request transmission support from TECO at Lake Tarpon.

11.8.2.3 Contact the DCC shift supervisor to request that they isolate distribution transformers on all affected stations, and investigate cause of interruption.

11.8.2.4 Suncoast generating plants (request manning of Bayboro).

11.8.3 Develop a plan to restore the affected areas

11.8.3.1 Restore the affected area from PEF's major lines if possible before using TECO's lines (500 MW maximum available @ peak) at Lake Tarpon.

11.8.3.2 Use the controlled sectionalizing approach.

11.8.3.3 Energize transmission circuits while maintaining proper voltage and line loading. Concentrate on energizing oil filled pipe cable (after 30 minutes, must verify oil pressure is higher than 100 psi).

11.8.3.4 Provide start up power to Suncoast generation.

11.8.3.5 Restore service to remaining customers.

11.8.3.6 Sufficient load must be picked up as transmission is re-energized to avoid high voltage problems.

11.8.3.6.1 If having trouble holding down transmission line voltages, operate parallel transformers on different taps to increase circulating currents and reactive

power losses.

11.8.3.6.2 Completely unloaded lines can resonate with connected transformers and damage equipment.

11.8.3.6.3 Watch VAR output of connected plants to make sure they are not driven to instability limits by reactive power coming from unloaded transmission line closings. Don't use them to try and hold voltage down prior to closing connected lines.

11.9 Establish start up power to Bayboro Peakers

11.9.1 Energize the 230 KV lines from Lake Tarpon to Ulmerton to Largo to Seminole to Pasadena to 40th Street.

11.9.2 Energize the 115 KV system from Pasadena to Crossroads and Kenneth City (oil filled pipe cable). Close feeder breakers to ECC. Energize 115 KV system from 40th St., to 16th St. and Bayboro. Start Bayboro peakers for load and voltage control.

11.10 Establish start up power for Bartow Steam (115 KV)

Energize the 115 KV lines from 40th Street to Bartow. All three Bartow (units receive start-up power from 115 KV bus).

11.11 Pinellas County Resource Recovery

11.11.1 Energize 230 KV line from Ulmerton to Northeast.

11.11.2 Energize 230 KV from Northeast to PCRR and to Bartow (verify oil pipe cables pressure greater 100 psi).

11.12 Start up power for Anclote

- Energize Lake Tarpon to E. Clearwater 230KV
- Energize E. Clearwater to Anclote
- Energize Lake Tarpon to Seven Springs
- Energize Seven Springs to Anclote 230 KV bus.

11.13 Establish start up power for Higgins peakers

- Energize Lake Tarpon to E. Clearwater 230 KV
- Energize E. Clearwater to Higgins 115 KV line
- Energize Lake Tarpon Station service with lines out of Higgins or Griffin.

11.14 Energize the remaining transmission system

Energize the remaining transmission system with the new border breakers opened at Seven Springs, Tarpon Springs and Lake Tarpon. Request that the DCC take the necessary steps to energize station service in all substations. Feeder breakers should be opened before the bank breakers are closed.

11.15 Energize Critical Loads

Specify amount of load to be picked up. Retain sufficient generation for the starting motors at the power plants.

11.16 Restore Tarpon Springs Area Load

11.16.1 Isolate 230/115 KV banks #2 and #3 at Seven Springs.

11.16.2 Energize Hudson - New Port Richey - to Seven Springs 115 KV line.

11.16.3 Isolate Tarpon Springs - Pinellas Well 69KV line open breaker 40 at Tarpon Springs.

11.16.4 Energize Denham - Zephyrhills to Tarpon Springs 69 KV line.

11.16.5 Request DCC to pick up load at Flora Mar, Elfers, Port Richey West, New Port Richey, Seven Springs, and Denham.

11.16.6 As generation becomes available or the transmission problems are resolved, additional load should be restored.

12 Termination of a Generating Capacity Emergency

- 12.1** The Director, PSO or designate will determine when the current capacity emergency conditions can be reduced or terminated. In general, the Phases of this plan will be discontinued in reverse order as conditions permit.
- 12.2** The CENS system will provide full communications capabilities to PEF personnel and IS/CS customers when each Phase is terminated. The appropriate contacts in the Communications Chart should also be notified when each Phase is terminated.
- 12.3** The Director, PSO or designate will notify the SC that the capacity emergency has been reduced or terminated.
- 12.4** If firm load has been interrupted on a rotating basis, the Manager, PSO will coordinate load restoration activities with the DCC and field CIG representatives.

The Manager, Operations Planning will file the necessary verbal and written reports to the FRCC, Florida Public Service Commission (FPSC), DOE and National Infrastructure Protection Center (NIPC) within the time frames prescribed by those agencies (See appendix E and the Emergency Procedures Manual, Emergency Communications).

13 Plan Revisions, Drills and System Testing

This Plan will be reviewed annually and revised as needed by the Florida ECC. Each department with responsibilities under the Plan should review and update its portion at least annually by April 15 of each year. Any proposed revisions to the Plan should be submitted to the Director – Power Operations Florida by April 15 each year. In addition, the following periodic drills and tests are conducted:

- 13.1** PEF participates in an annual capacity emergency drill sponsored by the FRCC and conducted by the SCEC.
- 13.2** The PSO unit conducts an annual drill of this Plan
- 13.3** The DALS system is updated and tested twice each year prior to PEF's winter and summer peak load seasons.
- 13.4** The Capacity Emergency Notification System (CENS) functionality is tested on a weekly basis.
- 13.5** Prior to the Winter and Summer peak-load periods each year, review the current Plan and determine the training/review needed by employees.

Factors such as personnel changes, past experience, and significant Plan revisions should be considered to determine what training may be needed. Each manager is responsible for seeing that indicated training and reviews are carried out.

14 Definitions

14.1 Definition of Abbreviations

CCD	Corporate Communications Department
CENS	Capacity Emergency Notification System
CIG	Commercial, Industrial and Governmental
CT	Combustion Turbines
DALS	Distribution Automatic Load Shed Program
DCC	Distribution Control Center
DSM	Demand Side Management
ECC	Energy Control Center
EIS	Emergency Interchange Service
EMS	Energy Management System
FPL	Florida Power & Light
FPSC	Florida Public Service Commission
FRCC	Florida Reliability Coordinating Council
FTMS	Florida Transaction Management System
GSO	Generation System Operator
IS/CS	Interruptible and curtailable customers
LM	Load Management
NERC	North American Electric Reliability Council
NIPC	National Infrastructure Protection Center
PEF	Progress Energy Florida
PSO	Power System Operations
RPM	Regulated Portfolio Management
SC	Security Coordinator
SCEC	State Capacity Emergency Coordinator
SIL	Surge Impedance Loading
SORMF	System Operator Reference Manual - Florida
SPOD	System Planning & Operations Department
TECO	Tampa Electric Company
TSO	Transmission System Operator
VAR	Volt-Amperes Reactive

14.2 Definition of NERC Energy Emergency Alert Levels

North American Electric Reliability Council (NERC) Policy 2A, Requirement 2 establishes Reliability Coordinators to continuously assess transmission security and coordinate emergency operations among the control areas within the sub-regions, regions and across regional boundaries.

To ensure that all Reliability Coordinators clearly understand potential and actual energy emergencies in the interconnection, NERC has established levels of Energy Emergency Alerts. The NERC definition of Energy Emergency Alert levels is provided below.

14.2.1 Alert 1 - All Available Resources in Use

Foresee, or experiencing, conditions where all available resources are committed to meet firm load, firm transactions, and reserve commitments, and concerned about sustaining Operating Reserves. Non-firm energy sales have been curtailed.

14.2.2 Alert 2 - Load Management Procedures in Effect

Foresee, or have implemented, procedures up to, but excluding, interruption of firm load commitments. Procedures may include public appeals, voltage reduction, activation of DSM, curtailment of non-firm load, and conservation measures.

14.2.3 Alert 3 - Firm Load Interruption Imminent or in Progress

Foresee, or have implemented, firm load obligation interruption. Available energy, as determined from Alert 2, is only accessible with actions taken to increase transmission transfer capabilities.

14.2.4 Alert 0 - Excess Resources Available

Security Coordinators use Alert 0 for termination of an Energy Emergency Alert, that is, when an Energy Emergency Alert has ended.

14.3 Definition of FRCC Energy Emergency Alert Levels

The Florida Reliability Coordinating Council (FRCC) has in place a Generating Capacity Shortage Plan to document guidelines and procedures to be used by Florida's electric utilities in response to generating capacity shortages. The Plan defines the alert levels that may be declared on a state-wide basis in response to an actual or potential generating capacity emergency.

The SCEC is responsible for identifying and declaring any of the conditions defined in the FRCC plan. The Florida Transaction Management System (FTMS) is used by FRCC member utilities to provide the SCEC with a complete

look at member's load forecast and reserve margin data. The levels defined in the FRCC plan are as follows:

14.3.1 Generating Capacity Advisory

14.3.1.1 A Generating Capacity Advisory can be triggered by state weather projections and is primarily for information purposes. A Generating Capacity 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; or (2) one or more utilities in an area are issuing or planning to issue public appeals for conservation or, (3) disruption of the gas pipelines serving the FRCC region may threaten to adversely affect the generating capacity of the FRCC region.

14.3.2 Generating Capacity Alert

A Generating Capacity Alert exists when: (1) the FRCC operating margin is such that the loss of the largest generating unit will necessitate interruptions of firm load in Florida; or (2) disruption of the gas pipeline(s) serving the FRCC region will adversely affect the generation capacity in the FRCC region. When issued, the ECC will take the following action.

14.3.2.1 If the alert is issued during the winter months the ECC will contact the appropriate power plant managers to request them to implement their freeze protection procedures.

14.3.2.2 The ECC will also contact the Corporate Communications 24-hour media line to make them aware of the situation.

14.3.2.3 It is the responsibility of the ECC to make initial notification to department heads as deemed appropriate should system conditions so warrant.

14.3.2.4 If the capacity emergency is fuel related, the ECC will contact the Fuels group to activate PEF's Fuel Emergency Plan to ensure that a sufficient fuel supply is on hand.

14.3.3 Generating Capacity Emergency

A Generating Capacity Emergency exists when any one of the electric utilities in the FRCC region has inadequate generating capacity, including purchased power, to supply its firm load obligations. The loss of firm load in a localized area due to a transmission or distribution outage would not cause the implementation of the FRCC plan.

14.3.4 System Load Restoration

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

14.4 Definition of PEF General Load Reduction Plan Phases

14.4.1 Phase 0 – Normal Operations

A normal operating status exists whenever adequate capacity exists to meet current and projected system load levels including the required reserve margin.

14.4.2 Contingency Alert

A contingency alert is declared when the system's generating capacity margin falls below the actual output of the single unit carrying the greatest amount of load plus PEF operating reserve requirements (approximately 1,100 MW in total), or when required due to other system conditions. When a contingency alert exists the system Red Light is toggled to 'ON' and all non-essential generation and transmission system maintenance work is deferred.

14.4.3 Phase I Capacity Alert

A Phase I Capacity Alert is declared when there is a significant probability that service to interruptible commercial and industrial customers will be interrupted.

14.4.4 Phase 2 Capacity Emergency

A Phase 2 Capacity Emergency is declared when off-system emergency purchases begin to continue service to IS/CS customers.

14.4.5 Phase 3 Capacity Emergency

A Phase 3 Capacity Emergency is declared when it is determined that sufficient emergency power is not available to continue serving IS/CS customer load.

14.4.6 Phase 4 Capacity Emergency

A Phase 4 Capacity Emergency is declared when it is anticipated that firm load will have to be curtailed unless public conservation efforts are effective in sufficiently reducing demand.

14.4.7 Phase 5 Capacity Emergency

A Phase 5 Capacity Emergency is declared when firm load will have to be curtailed in order to balance the load with available capacity.

**Load Management Program Operating Guidelines
Demand Side Management (DSM)**

The Peak Periods (normal operating hours) for residential load management shall be, but are not limited to, the following time periods:

November 1 - March 31: 06:00 - 11:00 and 18:00 - 22:00 hours

April 1 - October 31: 13:00 - 22:00 hours

Access to the DSM load management control blocks is from the Generation desk PC workstation. A red light located near the upper left corner of the transmission map board will be illuminated when any block of DSM load management is operated.

To begin a session from the GSO PC workstation

1. Locate and then select the Load Management program ICON either on the desktop, or office tool bar.
2. Select the Strategies tab.
3. Refer to the Operating Instructions provided for this program at the workstation.

Pete Kaszuba is our primary Load Management contact

Cell phone	580-6155
Office	220-3612
Outside office number	518-3612
Home	941-727-9277

The ECC DSM support staff are Brian Constantine and Douglas Fusco.

Reference: Progress Energy Florida, Inc. Tariff for Retail Electric Service, Section VI, Rate Schedules RSL-1 and RSL-2.

**Demand Side Management program
Capacity Emergency Notification System (CENS) Messages**

LM Phase 1 - Capacity Alert order-of-day ABC
LM Phase 1 - Capacity Alert order-of-day BCA
LM Phase 1 - Capacity Alert order-of-day CAB
LM Phase 1 - has Ended
LM Phase 2 - has Begun Purchasing Power Call 800-791-1024 for cost
LM Phase 2 - has Ended
LM Phase 3 - has Begun Interruption in Effect
LM Phase 3 - has Ended (Power has been Restored)
LM Phase 3 - Group A has been Interrupted
LM Phase 3 - Group A has been Restored
LM Phase 3 - Group B has been Interrupted
LM Phase 3 - Group B has been Restored
LM Phase 3 - Group C has been Interrupted
LM Phase 3 - Group C has been Restored
LM Phase 4 - Capacity Emergency has Begun
LM Phase 4 - has Ended
LM Phase 5 - Capacity Emergency has Begun
LM Phase 5 - has Ended
LM Standby Generation has Begun
LM Standby Generation has Ended

Distribution Automated Load Shed (DALS) Program Overview

All bulk power electric systems in North America operate so that the last action taken to avoid a complete system collapse (blackout) is to shed firm load. Shedding of firm load is usually automated through special protection systems and under-frequency programs designed to prevent uncontrolled cascading outages or a total system blackout following a severe contingency.

The DALS program was developed to provide the ECC with the ability to rotate distribution feeder breaker outages in a controlled, systematic manner during capacity emergency periods. The DALS program, has the capability of allowing the ECC System Operators to select single or multiple areas in the PEF bulk-power electric system in which to rotate feeders

The DALS program ensures that during periods of capacity emergency when DSM is activated and feeders are being rotated simultaneously, customer Heating Ventilation Air Conditioning (HVAC) systems will have power available for at least a total of twenty (20) minutes during any one-hour period. The current status of each DSM block of Load Management is displayed within the EMS display LDSD. Restoration of a customer's Heating Ventilating Air Conditioning (HVAC) system at the same time as a customer's feeder breaker is closed ensures power is available for customer HVAC the required amount of time during a given one-hour period. Load Management strategy blocks must be operated following the schedule displayed within the EMS LDSD display.

If at all possible, the TSO will provide at least a thirty-minute (30) advance notification to the DCC dispatchers prior to implementing the DALS program to give them sufficient time to prepare for feeder rotation.

Operating instructions for the DALS program are contained in SORMF-TD-06, which provides a quick reference and a summary of the operating instructions along with a description of the general functionality of the DALS program. These instructions are intended for the use of an experienced TSO who has previously received hands-on DALS program training. SORMF-TD-06 should serve as the primary reference for the Transmission System Operator when operating the DALS program. However, if there are any technical difficulties with the DALS program please contact Jim Boaz of Distribution Engineering and Operations.

Appendix D

Standby Generation Operating Guidelines

Per our General Service Load Management - Standby Generation agreement, requests by PEF for the customer to reduce facility demand by operation of their standby generation can occur:

- at any time during the day
- will not be operated more than twice each day with the total operation not exceeding 12 hours

Under extreme emergency conditions, PEF may request the customer to voluntarily operate their standby generation for periods longer than 12 hours

**GENERAL LOAD REDUCTION & SYSTEM RESTORATION PLAN
REGULATORY REPORTING RESPONSIBILITIES**

For regulatory reporting required by this Plan, the Manager, Operations Planning, or alternate, notifies the indicated person(s) at the following agencies and provides the required information (see the Emergency Communications Procedure (EMG-PEF-001) for additional details):

1. Florida Public Service Commission (FPSC):

Florida Public Service Commission (FPSC)
Division of Electric and Gas
Mr. Bob Trapp
Assistant Director of Electric and Gas
2540 Shumard Oak Blvd.
Tallahassee, Fla. 32399

2. Florida Reliability Coordinating Council (FRCC):

Florida Reliability Coordinating Council (FRCC)
Mr. J. K. Wiley
President and CEO
1408 N. Westshore Blvd., Suite 1002
Tampa, FL 33607-4512

PROGRESS ENERGY FLORIDA
 GENERAL LOAD REDUCTION & SYSTEM RESTORATION PLAN
 CORPORATE COMMUNICATIONS RESPONSIBILITIES
Load-reduction communications plan

When customer demand exceeds PEF's ability to provide service through company generation and wholesale purchases, PEF may pursue one of several options to balance supply and demand. These are used when required to preserve a balance between system resources and load. These actions require considerable communication to the public and employees. In such an event, the Corporate Communications Department (CCD) will respond according to the following basic guidelines:

1. Upon notification of implementation of any phase of the load reduction plan from the Vice President-System Planning and Operations or designee, the CCD 24 hour media contact person (contacted at 230-5060 internal or (866) 520-6397 external) will notify the Manager-Public Relations. The Manager-Public Relations, will convene a brief meeting with all available media and employee communications staff and review the PEF load reduction plan.
2. Phases of the Plan, and corresponding internal notifications, press releases and radio ads are as follows. **If the situation escalates quickly, it may be necessary to combine one or more levels in these communications.**

CCD's action steps are summarized below. More details are included in the rest of this plan.

- Contingency Alert and Phase 1 Alert: A heads-up that all resources are in use. **Notification required** by e-mail; copy attached. Additional information of internal interest may be added.
- Phase 2 Emergency: **Notification required** by e-mail; copy attached. Additional information of internal interest may be added.
- Phases 3 Emergency: **Notification required** by e-mail; copy attached. Additional information of internal interest may be added.
- Phases 4 Emergency: **Notification required** by e-mail; copy attached. Additional information of internal interest may be added. **Public appeal news release required to be issued. Consider activating emergency radio advertising plan.**
- Phase 5 Emergency: Rotating power outages. **Notification required** by e-mail; copy attached. Additional information of internal interest may be added. **Power rotation news release required to be issued. Activate emergency radio advertising plan.**
- System Restoration: Restoration of power following outages. **Notification required** by e-mail; copy attached. Additional information of internal interest may be added. **News release required.** This requires writing from scratch and dissemination by phone calls to broadcast media. **Activate emergency radio advertising plan.**

Appendix F

2. Using information provided by Vice President - System Planning and Operations or designee, the Florida Media Spokesperson or designee will prepare and issue appropriate news releases to news media, using prioritized list below. These releases may be blast-faxed through PR Newswire, except possibly system restoration events when fax machines may not have power.
 - Associated Press radio
 - Florida radio news networks
 - Service area radio and TV stations
3. Florida Media Spokesperson or designee will electronically distribute copies of all news releases and radio spots to region vice presidents, local CRMs, Customer Service Center management, region E&O managers, Director - Commercial, Industrial and Government Account Management, Transmission Planning Unit and administrative assistant to assist in communications with local customers and media.
4. As any Phase of the load-reduction plan is implemented, the Manager-Employee Communications or designee will issue a notification to employees, using information contained in the corresponding news release.
5. The Florida Media Spokesperson will engage the Manager-Florida Communications. Manager Florida Communications will work with the Director – Brand & Marketing Communications to ensure contact with storm plan radio stations to air appropriate 30-second radio advertisements at pre-contracted intervals. Pre-written messages designed to be used during phases 4 and 5 of a capacity emergency are attached. These messages may be edited by CCD.
6. Manager, Florida Communications and staff will contact broadcast media in service area (as listed in CCD crisis communications plan) to notify them of the emergency and PEF's response. CCD staff will conduct interviews as needed. Key messages will include: (1) the reason for the action, (2) description of the desired customer response, and (3) expected duration of the action.
7. CRMs will assist with communications by making follow-up phone calls to local radio stations to ensure receipt of news releases and radio spots. While all radio stations in our service area should receive the news releases, only those listed in the CCD storm plan's emergency advertising section will receive the radio spots. CRMs also may do interviews with local media.
8. At the termination of the load reduction event, Florida Media Spokesperson or designee will issue a news release to the media, and Manager - Employee Communications or designee will issue a notification of event termination to employees.
9. The PR admin will reserve a meet-me line for conference calls with region VPs, CRMs, CSC, Regulatory Affairs and Director - CIG Account Management or designee. Call scheduled by PR Manager or CCD VP.
10. The PR administrative assistant will confirm/update distribution list for item # 3 and share with all CCD personnel who may be in a position to share releases, radio spots or other materials with this group.

Notifications to Department heads and Internal Employees

The following capacity alert and emergency notifications are to be sent to department heads, their administrative assistants and the Community Relations Managers by Manager, Florida Communications after proper notification from the ECC. These notifications are also be distributed by Employee Communications to PEF employees. **Test link before sending. Specify if we are issuing a public appeal. If reference is made to curtailable customers, use this language: *The company has asked (or expects to ask) curtailable industrial customers to reduce their electricity usage to agreed-upon levels for which we have contracted.***

Phase 1: Due to heavy customer load, Progress Energy Florida has implemented a Phase 1 Alert of the General Load Reduction and System Restoration Plan. No action is necessary on your part at this point, but be advised that conditions may worsen. To monitor the company's response to today's heavy load, click on this link: <http://nt000639/prod/qlrp/SystemStatus.asp>

Phase 2: Due to heavy customer load, Progress Energy Florida has implemented Phase 2 of the General Load Reduction and System Restoration Plan. Be advised that conditions may worsen. To monitor the company's response to today's heavy load, click on this link: <http://nt000639/prod/qlrp/SystemStatus.asp>

Phase 3: Due to heavy customer load, Progress Energy Florida has implemented Phase 3 of the General Load Reduction and System Restoration Plan. Be advised that conditions may worsen. To monitor the company's response to today's heavy load, click on this link: <http://nt000639/prod/qlrp/SystemStatus.asp>

Phase 4: Due to heavy customer load, Progress Energy Florida has implemented Phase 4 of the General Load Reduction and System Restoration Plan and we are making public appeals for conservation. Please have your department's employees reduce all non-essential use of electricity immediately and until further notice. Be advised that conditions may worsen. To monitor the company's response to today's heavy load, click on this link: <http://nt000639/prod/qlrp/SystemStatus.asp>

Phase 5: Due to heavy customer load, Progress Energy Florida has found it necessary to temporarily curtail service to firm customers. Progress Energy Florida has implemented the General Load Reduction and System Restoration Plan and we are rotating power among our customers. To monitor the company's response to today's heavy load, click on this link: <http://nt000639/prod/qlrp/SystemStatus.asp>

Phase 6: Progress Energy Florida has implemented the General Load Reduction and System Restoration Plan and we are currently proceeding with system restoration efforts. To monitor the company's response to today's heavy load, click on this link: <http://nt000639/prod/qlrp/SystemStatus.asp>

Load reduction radio advertisements

These radio messages may be edited to reflect specific details of the situation. These radio ads are activated according to the CCD storm plan's emergency advertising plan. Highlighted areas require specific information.

Phase 4 Emergency Radio Spot:

30-second radio ad seeking customer curtailment of electricity usage

Progress Energy Florida asks customers to reduce use of electricity (date)

Due to the high demand for electricity, Progress Energy Florida is asking customers to reduce their use of electricity (*specify during what time period*). By doing so, you can help ensure an uninterrupted flow of power to all customers. Once the extreme weather passes, normal power usage can be resumed.

Customers are asked to turn off unnecessary lights and postpone household chores that involve the use of electrical equipment until after 9 p.m. Customers can monitor the power situation by tuning in to this radio station. Thank you for helping us keep your world working.

Phase 5 Emergency Radio Spot

30-second radio ad announcing rotating outages

Progress Energy Florida begins rotating available power among customers (date)

Due to the continuing record demand for electricity, Progress Energy Florida is temporarily rotating power outages in the area (*specify during what time period*). With neighboring utilities experiencing the same record demand, this is the only way to maintain the stability of the electric system while continuing to provide power to customers.

Customers will experience periodic power interruptions of about (**must specify**) *one hour (summer)/30 minutes (winter)* until the power demand and availability are again balanced. By rotating power, Progress Energy Florida can share what electricity is available among all customers. If your power is off for much longer than (**must specify**) *one hour/ 30 minutes*, please call Progress Energy Florida to report it. Thank you for your patience.



news release

Appendix F

(Weather template – DOCs #183052)

Bulletin: Progress Energy Florida asks public to reduce use of electricity

ST. PETERSBURG, FLA (date) – Because of *(record/high)* demand for electricity, Progress Energy Florida is asking the public to reduce use of electric power temporarily.

“The demand is approaching the maximum capabilities of the system,” said Eric S. Grant, Progress Energy’s Director – Power System Operations. “By reducing our use of electricity, we can help ensure an uninterrupted flow of electricity to all customers. Once this extreme *(heat/cold)* passes, we can resume normal power use.”

Customers should turn off unnecessary lights, avoid using dishwashers, washing machines and dryers and postpone chores involving electrical equipment. Cooking can be done with energy-efficient microwaves instead of stoves.

Industrial and commercial customers are also asked to reduce power usage, as well as residents of communities whose municipal power system is served by Progress Energy Florida.

“We expect power demand to return to normal after temperatures moderate,” Grant said. “We know this is an inconvenience and we appreciate the public’s cooperation and patience. We’ll announce when customers can resume normal power use.”

Customers can monitor the power situation by tuning in to local radio stations on battery-operated radios.

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news release

Appendix F

(Non-weather template – DOCs # 183053)

Bulletin: Progress Energy Florida asks public to reduce use of electricity

ST. PETERSBURG, FLA (date) –Because of *(briefly describe problem)*, Progress Energy Florida is asking the public to reduce use of electric power temporarily.

“The demand is placing a strain on the electrical system,” said Eric S. Grant, Progress Energy’s Director – Power System Operations. “By reducing our use of electricity, we can help ensure an uninterrupted flow of electricity to all customers while we work to obtain more power. This can be done by getting additional generation units online or by purchasing power from neighboring utilities.”

Customers should turn off unnecessary lights, avoid using dishwashers, washing machines and dryers and postpone chores involving electrical equipment. Cooking can be done with energy-efficient microwaves instead of stoves.

“We know this is an inconvenience and we appreciate the public’s cooperation and patience,” Grant said. “We’ll announce when customers can resume normal power usage.”

Industrial and commercial customers are also asked to reduce power use, as are residents of communities whose municipal power system is served by Progress Energy Florida.

Customers can monitor the power situation by tuning in to their local radio stations on battery-operated radios.

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news release

Appendix F

(DOCS - #183054)

Bulletin: Progress Energy Florida rotates power among customers

ST. PETERSBURG, FLA. (date) – Because of continuing (*record/high*) demand for electricity, Progress Energy Florida is temporarily rotating power in (*specify size/location of area involved*).

Eric S. Grant, Progress Energy's Director – Power System Operations, said the current power demand is so great that rotating power is the only way to maintain the stability of the Progress Energy Florida system while continuing to provide electricity to customers.

"Rotating power is only done in extreme situations," Grant said. "We cannot produce enough power, or obtain enough power from neighboring utilities, to meet our customers' total demands. In fact, our neighboring utilities are experiencing the same difficulties since the weather pattern extends well beyond our service area."

By rotating power between segments of customers, Progress Energy Florida can share what power is available among all customers. Customers will experience periodic 30- to 60-minute power interruptions until the power demand and availability are again balanced.

"We realize this is an inconvenience to our customers and ask for their patience," Grant said. "We will rotate power only as long as it takes for the temperatures and power demand to moderate."

Because of the high power demand, Progress Energy Florida asked its customers (*today/yesterday, etc.*) to reduce their use of electricity voluntarily..

Customers can monitor the power situation by tuning in to their local radio stations on battery-operated radios.

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(Paragraphs 3, 4 and 5 will not apply if we have a sudden emergency. If weather is the cause, we may also include normal-peak-current load comparisons, weather stats, etc.)

System Parameters for Emergency Conditions

Voltage - System voltage should be kept within the voltage ranges specified as follows:

<u>Nominal Voltage (kv)</u>	<u>Minimum Voltage (kv)</u>	<u>Max. (kv) voltage (Continuous)</u>	<u>Max. Voltage (kv) (Short term - Emergency)</u>
500	450	550	550
230	207	242	250
115	104	121	125
69	62	73	75

Surge Impedance Loading (SIL) - The SIL of a line should be observed because a line loaded below its SIL (MW) generates VARS; a line loaded above its SIL, absorbs VARS.

<u>Line Voltage (kv)</u>	<u>Surge Impedance Loading (mw)</u>
500	1000
230	132
115	33
69	12

Line Rating

Overhead transmission lines have both a normal and an emergency seasonal rating. These ratings are listed in the front of the System One-Line Switching Diagrams. Even though it is permissible to load a line to its emergency rating, the line loading should be reduced to below its normal rating if possible.

Summary of Schedule A Emergency Purchase Terms

Florida Power & Light	Contact: Interchange Desk (305) 442-5742
	<p>Key Terms:</p> <p>Service available to serve firm native load PEF must first fully implement all DSM PEF must first fully interrupt all non-firm load Or, PEF can buy to support non-firm load, but</p> <p>FPL not obligated to provide more than lost resource Maximum term is 72 hours Second event within 48 hours shall not qualify as EIS Energy provided is non-firm and recallable by FPL</p>
Tampa Electric Company	Contact: Interchange Desk (813) 623-5623
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent Duration over 1 hour treated as EIS Maximum term is 72 hours</p>
Florida Municipal Power Agency (FMPA)	Contact: Interchange Desk (407) 384-4045
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 72 hours</p>
Gainesville Regional Utilities (GRU)	Contact: Interchange Desk (352) 334-2892
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 72 hours</p>

Summary of Schedule A Emergency Purchase Terms

Jacksonville Electric Authority (JEA)	Contact: Interchange Desk (904) 665-7150
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 72 hours</p>
City of Homestead (HST)	Contact: Interchange Desk (305) 247-3548
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 72 hours</p>
City of Lakeland	Contact: Interchange Desk (863) 834-8550
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 72 hours</p>
New Smyrna Beach (NSB)	Contact: Interchange Desk (386) 424-2705
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 72 hours</p>

Summary of Schedule A Emergency Purchase Terms

Orlando Utilities Commission (OUC)	Contact: Interchange Desk (407) 384-4045
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 72 hours</p>
Reedy Creek Improvement District (RCI)	Contact: Interchange Desk (407) 824-4867
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT or diesel energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 24 hours</p>
Seminole Electric Cooperative, Inc. (SECI)	Contact: Interchange Desk (813) 963-2844
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 24 hours</p>
City of Tallahassee	Contact: Interchange Desk (850) 891-3022
	<p>Key Terms:</p> <p>Duration less than 1 hour treated as inadvertent However, CT energy may be treated as EIS Duration over 1 hour treated as EIS Maximum term is 24 hours</p>

General Load Reduction and System Restoration Status Web Page

GENERAL LOAD REDUCTION AND
SYSTEM RESTORATION STATUS - FLORIDA

[Update Status](#)
[Print Document](#)
[View DSM Details](#)

Progress Energy Status	FRCC Status
<input checked="" type="checkbox"/> Phase 0 - System Conditions Normal	
<input checked="" type="checkbox"/> System Contingency Alert (Red Light On)	FRCC Advisory
<input checked="" type="checkbox"/> Phase 1 Alert	
<input type="checkbox"/> Curtable and Interruptible Customers Modified	
<input type="checkbox"/> Expect to advance to Phase 2 Emergency	
<input type="checkbox"/> Water Heater control activated	
<input type="checkbox"/> Pool Pump control activated	
<input type="checkbox"/> HVAC control activated	
<input type="checkbox"/> Standby generation activated	
<input checked="" type="checkbox"/> Phase 2 Emergency	FRCC Alert
<input type="checkbox"/> Emergency Purchases in Effect	
<input type="checkbox"/> Water Heater control activated	
<input type="checkbox"/> Pool Pump control activated	
<input type="checkbox"/> HVAC control activated	
<input type="checkbox"/> Standby generation activated	
<input checked="" type="checkbox"/> Phase 3 Emergency	
<input type="checkbox"/> Capacity Curtailment (curtable & interruptible)	
<input type="checkbox"/> Water Heater control activated	
<input type="checkbox"/> Pool Pump control activated	
<input type="checkbox"/> HVAC control activated	
<input type="checkbox"/> Standby generation activated	
<input checked="" type="checkbox"/> Phase 4 Emergency	
<input type="checkbox"/> Major Customer Appeal	
<input type="checkbox"/> Curtail Non-essential Progress Energy Florida Load	
<input type="checkbox"/> Water Heater control activated	
<input type="checkbox"/> Pool Pump control activated	
<input type="checkbox"/> HVAC control activated	
<input type="checkbox"/> Standby generation activated	
<input checked="" type="checkbox"/> Phase 5 Emergency	FRCC Emergency
<input type="checkbox"/> Level 3 Voltage Reduction	
<input type="checkbox"/> Feeder Rotation	
<input type="checkbox"/> Water Heater control activated	
<input type="checkbox"/> Pool Pump control activated	
<input type="checkbox"/> HVAC control activated	
<input type="checkbox"/> Standby generation activated	
<input checked="" type="checkbox"/> Phase 6 - Restoration in Progress	