ORIGINAL

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 070393-EI

IN RE: PETITION FOR DETERMINATION OF NEED FOR LAKE AGNES-GIFFORD 230 KV TRANSMISSION LINE IN POLK AND ORANGE COUNTIES, BY PROGRESS ENERGY FLORIDA AND TAMPA ELECTRIC COMPANY.

# JOINT PREFILED DIRECT TESTIMONY

OF

BRANTLEY TILLIS AND THOMAS J. SZELISTOWSKI

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**JOINT PREFILED DIRECT TESTIMONY**

**OF**

**BRANTLEY TILLIS AND THOMAS J. SZELISTOWSKI**

**Q.** Mr. Tillis, please state your name and business address.

**A.** My name is Brantley Tillis. My business address is 3300 Exchange Place, Lake Mary, Florida 32746.

**Q.** By whom are you employed and in what capacity?

**A.** I am employed by Florida Power Corporation, doing business as Progress Energy, Florida, Inc. ("PEF"), in the capacity of Manager of Transmission Planning.

**Q.** What are your duties and responsibilities as PEF's Manager of Transmission Planning?

**A.** I am responsible for maintaining overall grid reliability of PEF's transmission system. This includes planning for the expansion of PEF's transmission grid to assure reliability, reviewing generation interconnection requests, conducting system impact and other studies

under PEF's open access transmission tariff ("OATT"), and conducting joint planning studies with other peninsular Florida utilities through the Florida Reliability Coordinating Council ("FRCC").

**Q.** Please describe your educational background and professional experience.

**A.** I graduated from the University of Florida with a Bachelors of Science degree in Electrical Engineering in 1985. I also have an MBA from the Florida Institute of Technology. I have worked for PEF for 22 years, initially in the area of distribution engineering and operations and then followed by transmission and distribution planning. I also have held various management roles at the company. I am a licensed Professional Engineer in the State of Florida. I have supplied exhibits and provided support in various proceedings before the Florida Public Service Commission ("Commission"). I also represent PEF at the FRCC as a member of the FRCC's Planning Committee and as a member of the Transmission Working Group for the Planning Committee.

**Q.** Mr. Szelistowski, please state your name and business address.

**A.** My name is Thomas J. Szelistowski. My business address is 702 N. Franklin Street, Tampa, Florida 33602.

**Q.** By whom are you employed and in what capacity?

**A.** I am employed by Tampa Electric Company ("Tampa Electric") as Director, Energy Control Center.

**Q.** What are your duties and responsibilities as Tampa Electric's Director, Energy Control Center?

**A.** My present responsibilities include the areas of day-to-day distribution outage restoration, transmission system operations, system reliability tracking and reporting, Energy Delivery emergency response and planning, wholesale energy accounting and billing, and Tampa Electric's long-term transmission and distribution infrastructure planning.

**Q.** Please describe your educational background and professional experience.

**A.** I received a Bachelor of Electrical Engineering degree in 1983 from Georgia Institute of Technology and a Masters Degree in Business Administration from the University of Tampa in 1987. I am a licensed professional engineer in the state of Florida. I joined Tampa Electric as a co-operative education student in 1978 and became a full time employee as an engineer in 1983. From 1983 through 2001, I held various positions in Transmission Planning, Transmission Engineering, and Transmission and Distribution Operation areas of Tampa Electric. In 2001, I was promoted to Director, Transmission and Distribution Operations. In this position, I was responsible for the construction and maintenance of the distribution and transmission facilities of Tampa Electric. Earlier this year, I was promoted to my current position.

**Q.** Are you sponsoring any exhibits in this proceeding?

**A.** Yes, we are sponsoring the following exhibits to our testimony:

Exhibit___(BT/TJS-1): PEF's Historic and Forecasted Peak Demand

Exhibit___(BT/TJS-2): Tampa Electric's Historic and

facilities in the general area (shown as dashed lines). The locations of the facilities not yet in-service are approximate. In particular, the line depicting the Project is intended to indicate conceptually an electrical connection from the Lake Agnes Substation to the proposed Gifford Substation strictly from an engineering and planning perspective. The final length and routing of the line will be determined in certification proceedings under the Transmission Line Siting Act ("TLSA").

**Q.** What is the companies' timetable for licensing, design and construction of the Project?

**A.** Presently, the companies are evaluating corridors in anticipation of submitting an application to Department of Environmental Protection under the TLSA in 2007. A final decision by the Siting Board is expected in 2008. Detailed design of the Project will begin as soon as a final corridor is approved. Construction of the Project is expected to begin in 2010 and is expected to be completed by 2011. The final route has not been selected and final costs will be subject to a number of factors including the determination of the final length and route

of the line as determined under the TLSA. Specifically, the length and route of the line, and other conditions that could be imposed through the TLSA process, will affect land acquisition costs, line construction costs, and other compliance costs. Subject to these types of cost variances that could arise through the TLSA process, the estimated capital cost of the Project is $67.5 million.

**THE COMPANIES' PLANNING PROCESS**

**Q.** How do the companies determine the need for new transmission lines?

**A.** Planning for the companies' transmission systems follows practices and criteria that are consistent with the North American Electric Corporation ("NERC"), the FRCC, and other applicable standards. The NERC Reliability Standards, which have been adopted by the FRCC, specify transmission system operating scenarios that should be evaluated, and the attendant levels of system performance that should be attained. The NERC Reliability Standards are provided in Exhibit___(BT/TJS-4).

The FRCC's transmission planning process is explained in Exhibit___(BT/TJS-5). The FRCC and respective transmission owners conduct an annual transmission assessment of the effects of forecasted future load growth on the transmission system, the need to serve new load areas or new large customers, future interconnections with neighboring utilities, integration of new generation facilities and firm contractual transmission service obligations. The changes in system performance due to these factors are simulated and analyzed for the present and future years to identify existing and future system limitations. Alternative solutions to these limitations are then developed, analyzed, and screened on the basis of their electrical performance. Viable alternatives are compared for their relative merits with respect to economics, reliability, feasibility, compatibility with long range area requirements, and operating flexibility. Transmission facility additions such as a new transmission line are implemented as a result of this process when they provide the best overall solution.

Q. What studies did the companies perform to determine the need for the Project?

**A.** In developing the need for the Lake Agnes-Gifford line, regional assessment studies known as the Florida Central Coordinated Study ("FCCS") and the subsequent FCCS Re-Study were conducted by the FRCC. These studies showed transmission limitations on the existing 230kV transmission network between the Polk County area and the Greater Orlando area due to projected load growth in the 2008-2011 timeframe. A copy of the Executive Summary to the FCCS Re-Study Report is attached to our testimony as Exhibit ____(BT/TJS-6).

**Q.** Briefly describe the history of the FCCS.

**A.** The FCCS began in June 2005 to determine the impact of planned additional generation in the 2008 through 2012 time frame in the Polk/Hardee County area and the effects of such generation on the transmission networks. The study participants included Florida Municipal Power Agency, Florida Power and Light Company, Kissimmee Utilities Authority, Lakeland Electric, Orlando Utilities Commission, PEF, Reedy Creek Improvement District, Seminole Electric Cooperative, Inc. and Tampa Electric.

The original FCCS identified the need for transmission

system improvements along the Interstate 4 (I-4) corridor from existing and planned generation in the Polk/Hardee County area to the Greater Orlando area load center. The FCCS identified the need for major 230 kV transmission additions by 2008 with additional facilities needed by 2011. The line loading concerns for the two major lines through this corridor began in 2004 and continue today. In the spring of 2006, Tampa Electric installed a switchable series reactor on the Lake Agnes - Osceola line, which can be used to restrict the flow on this line. While this is an interim remedy, other long-term solutions are necessary.

**Q.** When was the original FCCS Report issued and what were its essential findings?

**A.** The original FCCS Report was issued in May 2006. This report recommended the construction of a new 230 kV line from West Lake Wales to Intercession City with bundled 954 conductor, and the rebuild of the existing 230 kV line between West Lake Wales and Intercession City with bundled 954 conductor. The study recommended that both of these projects should be completed by the summer of 2008, or sooner if possible. PEF has begun work on these

projects and has determined that the new lines should loop into the existing Dundee substation. The FCCS Report also recommended the construction of certain other transmission projects by the summer of 2011.

**Q.** What action was taken by the FRCC in response to the FCCS?

**A.** After review by the FRCC Transmission Working Group ("TWG"), the FCCS Report was accepted by the FRCC Planning Committee as reflecting the necessary improvements needed for the FRCC to meet the NERC reliability standards. However, there were many changes between the 2005 FRCC databank cases used in the development of the FCCS and new 2006 FRCC databank cases that had become available at or about the time of the issuance of the FCCS. For example, the load in the FRCC region increased by about three percent and several utilities increased (and/or changed the location of) the generation in their ten-year site plans. As a result of these various changes, it was determined that the original study should be reassessed with the new data to verify the results.

At the April 2006 meeting of the FRCC Board of Directors, the Board directed the Planning Committee, through the TWG, to conduct a Re-Study of the FCCS. The purpose of this Re-Study was to utilize the most current updated database, which consisted of the 2006 ten-year site plans. Each member company affected by the new study furnished the appropriate transmission planning manpower resources to assist in the Re-Study.

**Q.** Please describe the FCCS Re-Study.

**A.** The FCCS Re-Study began in mid-2006 with the 2006 loadflow databank, which contained all planned generation additions and contracts from the individual utilities' latest ten-year site plans. In addition, all of the other assumptions and commitments from the original FCCS were reviewed and updated. Any long-term transmission service for generation in the Polk/Hardee County area was assumed to continue (rolled over) to ensure that the transmission system in this area was capable of meeting the transmission owners' long-term transmission service obligations. Each utility located unsited generation based on the most likely location, or the worst case location for the studied area at the discretion of the

utility.

The reference cases based on the 2006 loadflow databank were modified to continue existing long-term firm transmission service (rolled over) after the specified end-date, if it were likely that these transactions would continue. This assumption ensures sufficient transmission capability such that the transmission providers would be able to meet their obligations to their respective customers. These contract changes and other modeling changes were reflected in our FCCS Re-Study cases.

**Q.** What projects were recommended as a result of the FCCS and FCCS Re-Study?

**A.** To ensure that the transmission system within FRCC continues to meet the NERC reliability standards, the FCCS and FCCS Re-Study recommended a series of projects in Central Florida which are listed in Exhibit ___ (BST/TJS-7). Among these projects is the Lake Agnes-Gifford Project which is the subject of this proceeding. In total, the projects encompass a total of 154.7 miles of electrical transmission facilities across the Central Florida region.

**Q.** Have there been any changes in conditions since the August 2006 FCCS Re-Study of the Central Florida Corridor which affect the need for the Project?

**A.** No, there have been no changes which affect the need for the project. The study demonstrated the need for multiple upgrades within the region and the study is still valid.

**Q.** Were employees of PEF and Tampa Electric working under your direction and supervision involved with the FRCC's TWG in the development of the FCCS and FCCS Re-Study?

**A.** Yes. PEF and Tampa Electric were substantially involved in every step of this process, including participation in the TWG of the FRCC.

**Q.** Are PEF and Tampa Electric familiar with the assumptions used, data analyzed and conclusions reached by the FRCC as reflected in the FCCS and FCCS Re-Study?

**A.** Yes. Tampa Electric and PEF have studied and are familiar with the data analyzed and used by the FRCC in developing the recommendations reflected in the FCCS and

the FCCS Re-Study. Both companies actively participated in the FRCC TWG study team that performed the FCCS Re-Study Report. We are familiar with the assumptions used in the development of the methodologies employed by the FRCC and believe them to be reasonable and consistent with applicable standards used for transmission planning in the electric industry. Finally, we are intimately familiar with the conclusions and recommendations.

**Q.** Has the Commission previously commented on the coordinated planning process of the FRCC and on the FCCS Study in particular?

**A.** Yes. In the Commission's December 2006 Review of 2006 Ten-Year Site Plans for Florida's Electric Utilities, the Commission observed:

"While generating units supply the energy needs of all Floridians, the transmission system is the backbone that delivers the energy to end users. Utilities must coordinate their individual generation and transmission plans to ensure that needed capacity can be moved from power plant sites to load centers through the state."

In commenting on and endorsing the FCCS Study (including

the Re-Study), the Commission further stated:

"At the urging of the Commission, the FRCC recently completed a major planning assessment known as the *Florida Central Coordinated Study*. The assessment identified an immediate need for additional transmission transfer capability along the Interstate 4 corridor, to move electricity generated in the Polk county region to load centers in the Greater Orlando area."

The Commission noted, with approval, that the FCCS Study identified approximately $277 million in transmission projects that would address future needs in the region, including the Lake Agnes-Gifford Project. The Commission's Ten-Year Site Plan Report "urge[d] Peninsular Florida's utilities to continue working together through the FRCC to identify and address all reliability issues caused by transmission system limitations" and "commend[ed] the FRCC for its efforts in coordinating the transmission plans of Peninsular Florida's utilities". A copy of the relevant portions of the Commission's December 2006 Review of the 2006 Ten-Year Site Plan is included as Exhibit __ (BT/TJS-8).

**NEED FOR THE PROJECT**

**Q.** Explain the need for the Project.

**A.** The need for the Project is based on the following considerations: 1) The need to provide additional transmission capability to the existing 230kV transmission network between Lake Agnes and Gifford substations in a reliable manner consistent with NERC, FRCC, and other applicable standards; and 2) The need to serve the increasing load and customer base in the region.

**Q.** Please explain the benefits of this Project.

**A.** The Project will provide the companies with the best alternative and overall choice of facilities necessary to maintain reliability and reduce congestion in the existing and future areas of customer load in the Project Service Area. The FRCC Load and Resource Plan attached as Exhibit __ (BT/TJS-9) shows the projected load for the FRCC Region. Specifically, the Project will allow the companies to: 1) Maintain area reliability by providing an additional path to the existing 230kV transmission network in Polk and Orange Counties, and 2) Meet the

Project Service Area's long term growth requirements for at least the study period of 2011, based on the regional load forecast.

**Q.** Please describe the contingencies that require the addition of the Project.

**A.** The FRCC analyzed load flows for the 2008-2011 summer and winter peak loads without any new transmission facilities in service. As referenced in Exhibit ___ (BT/TJS-10), these analyses indicate that for 35 different single contingency events a variety of overloads ranging from 100 percent to 120 percent of thermal MVA facility ratings. The NERC Planning Standards require that the facility ratings not exceed 100 percent of the applicable thermal MVA facility rating. Without the Project, mitigation of these overloads would require various operational workarounds such as redispatch and the interruption of service to customers, depending on the specific outage, in order to continue to operate the facilities in accordance with NERC Reliability Standards.

**Q.** How would construction of the Project provide for further load growth as well as resolve these contingencies?

**A.** The Project will provide a 230kV transmission path to relieve the existing 230kV transmission network. The construction of the Project, based on a projected in-service date of June 2011, would mitigate the thermal overloads caused by single contingency events in accordance with NERC Reliability Standards and would provide service to existing and new customers at a comparable level of reliability to that delivered to other customers of the companies as the load in the Project Service Area continues to grow.

**Q.** Why have the companies proposed that the Project be constructed on a separate right-of-way ("ROW")?

**A.** As part of the FRCC planning process, the planning team looked at potential corridors and routes to determine if a conceptual solution could be feasible. The study team envisioned several possible routes and determined one likely corridor would require TLSA. Placing the new circuit in a separate ROW would provide the transmission system serving the Project Service Area with another diverse path for the transmission of power. However, it is not intended to preclude the detailed engineering and route/site selection process necessary to evaluate other

feasible corridors.

**Q.** Are there other sensitivity analyses associated with the Project?

**A.** Yes. Recommended solutions were tested to ensure that the system not only meets the NERC reliability standards, but is also robust as it relates to different possible generation dispatch scenarios such as generator unavailable and non-firm power transactions from merchant plants. To test the robustness of the grid with the recommended FCCS projects, a series of sensitivities were performed based on: unit unavailability, 2013 and 2014 summer cases, and dispatching uncommitted generation.

**Unit Availability Sensitivities**

**Q.** Describe the unit unavailability sensitivities that were conducted.

**A.** Three unit unavailability cases were created and the results were analyzed to determine if any different possible dispatch scenarios created any unforeseen situations. The three unit unavailability scenarios were:

1. Sanford 4 (CT A, CT B, CT C, CT D, ST) - 952 MW in 2011 and 2012
2. Stanton A (CT 1, CT 2, ST) - 619 MW in 2011 and 2012
3. Cane Island 3 (CT, ST) - 240 MW in 2011 and 2012

These cases showed that the flows on the overloaded lines in the base cases could be increased between 10 to 15 percent under the most severe generation dispatch scenarios.

**2013-14 Summer Cases**

**Q.** Please describe the sensitivity cases using the 2013 and 2014 base cases.

**A.** To test the longevity of the proposed projects, additional sensitivity cases were created using the 2013 and 2014 base case with all proposed projects and contingency situations. During this sensitivity analysis the proposed projects had a long-term positive impact to the Greater Orlando area. However, the analysis of the 2013 and 2014 time frame supported the need to perform an additional long-term study.

**Dispatching Uncommitted Generation**

**Q.** Please discuss the sensitivity which varied the dispatch of uncommitted generation.

**A.** The ability to deliver uncommitted merchant generation was evaluated by varying the generation three different ways:

1. Increasing the total FRCC load as generation is increased.
2. Increasing the transmission provider's load as generation connected to that transmission provider is increased.
3. Decreasing the transmission provider's generation (per economic dispatch) as generation connected to that transmission provider is increased.

In addition to assessing the system using the three methods above, the uncommitted merchant generation was further divided. The assessment was done for the entire FRCC uncommitted generation and for only the generation that directly impacts this corridor.

**DISCUSSION OF ALTERNATIVES**

**Q.** Did the companies consider alternatives to the Project?

**A.** Yes.

**Q.** What factors were employed to evaluate the alternatives?

**A.** The factors used to evaluate the performance of the alternatives included reliability, cost, construction feasibility, operational flexibility, ROW diversity, and future transmission system expandability.

**Q.** Please describe the transmission alternatives that were considered.

**A.** The first area of transmission alternatives considered focused on whether there were viable options for facilitating more flows toward load centers west of the Polk/Hardee County area. Several options were discussed and investigated as to their load flow impacts:

- Gapway 230/69 kV transformer addition: Tampa Electric has planned to construct this project in 2012 and has determined that it would be possible to accelerate this project by up to three years. The goal under this alternative would be for the Gapway Substation to divert some of the flow from the

Recker - Lake Agnes 230 kV line to serve load in the north Winter Haven area.

- Interstate - Griffin new 230 kV line: This would be a new five mile line that could provide another path from the McIntosh area toward northwest Polk County.
- Crews Lake - Willow Oak new 230 kV line: This would be a new nine mile line that could provide another path from the McIntosh/Recker area toward Plant City.
- Griffin - Chapman new 230 kV line: This would be a new 24 mile line that could provide another path from northwest Polk County toward north Tampa.

An additional area of transmission alternatives considered focused on whether there were viable options for facilitating more flows toward the load centers from the Osceola/Polk area. This evaluation involved the utilization of the Poinsett - Holopaw 230 kV line as a new source into the area. The option of building a new 230 kV line, routing from the Holopaw area to the Taft area was studied for the 2011 to 2014 time frame to determine if building a new flow path for the Greater Orlando area would obviate the need to rebuild the I-4 corridor. The new line option was explored by modeling a

line from St. Cloud East to Magnolia Ranch along with the Lake Agnes-Gifford line. The new line would allow flow from the south Polk County area using the existing West Lake Wales - Holopaw - Poinsett 230kV line and reducing the loading on the I-4 corridor. Based on these models it was determined that the new injection point into the Greater Orlando area would be beneficial; however, the I-4 corridor would still have loadings above 95 percent in 2012. Based on these results, this project was not selected but will be evaluated as a part of the longer term study.

**Q.** Please describe why distribution alternatives were not considered viable.

**A.** Distribution alternatives such as expanding existing substations were not considered viable because expansion of existing distribution substations will not address the primary need for this Project (i.e. reinforcement of existing 230kV transmission network). Accordingly, a distribution alternative was not considered further.

**Q.** What are your conclusions regarding the evaluation of alternatives to the proposed Project?

**A.** After reviewing these alternatives, it was determined that each of these projects would only marginally (less than 2 percent) improve the situation on the affected facilities. Therefore, these projects were not included in the recommended list of projects in the FCCS Re-Study; however, individual transmission owners will consider these projects in the future planning studies. When compared with the alternatives, the Lake Agnes to Gifford line provides greater reliability and operational flexibility. Further, this line is feasible to construct, can provide ROW diversity, and future generation flexibility. All things considered, the proposed Lake Agnes to Gifford line provides the most cost effective solution to addressing the need for the Project in a manner consistent with NERC and FRCC Reliability Standards.

**ADVERSE CONSEQUENCES OF DELAY OR DENIAL OF THE PROJECT**

**Q.** Would there be adverse consequences to the companies' customers in the Project Service Area if the Project is not timely approved?

**A.** Yes. If the Project is not timely approved and no other alternative is built, inadequate transmission capability

would result, therefore jeopardizing reliable service to existing and future customers in the Project Service Area. The inability to serve additional loads would force the continuation and escalation of operational workarounds to prevent system degradation.

**Q.** Should the Commission approve the need for the Project?

**A.** Yes. The Commission should determine that there is a need for a 230 kV transmission line connecting the Lake Agnes and proposed Gifford Substations.

**Q.** Does this conclude your testimony?

**A.** Yes, it does.

PROGRESS ENERGY FLORIDA

SCHEDULE 3.1.1
HISTORY AND FORECAST OF SUMMER PEAK DEMAND (MW)
BASE CASE

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (OTH) | (10) |
|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | TOTAL | WHOLESALE | RETAIL | INTERRUPTIBLE | RESIDENTIAL LOAD MANAGEMENT | RESIDENTIAL CONSERVATION | COMM. / IND. LOAD MANAGEMENT | COMM. / IND. CONSERVATION | OTHER DEMAND REDUCTIONS | NET FIRM DEMAND |
| 1996 | 7,470 | 828 | 6,642 | 309 | 565 | 69 | 41 | 120 | 167 | 6,199 |
| 1997 | 7,786 | 874 | 6,912 | 288 | 555 | 78 | 41 | 131 | 170 | 6,523 |
| 1998 | 8,367 | 943 | 7,424 | 291 | 438 | 97 | 42 | 142 | 182 | 7,175 |
| 1999 | 9,039 | 1,326 | 7,713 | 292 | 505 | 113 | 45 | 153 | 183 | 7,747 |
| 2000 | 8,911 | 1,319 | 7,592 | 277 | 455 | 127 | 48 | 155 | 75 | 7,774 |
| 2001 | 8,841 | 1,117 | 7,724 | 283 | 414 | 139 | 54 | 156 | 75 | 7,720 |
| 2002 | 9,421 | 1,203 | 8,218 | 305 | 390 | 153 | 43 | 159 | 75 | 8,296 |
| 2003 | 8,886 | 887 | 7,999 | 300 | 347 | 172 | 44 | 164 | 75 | 7,785 |
| 2004 | 9,554 | 1,071 | 8,483 | 531 | 283 | 188 | 37 | 166 | 75 | 8,274 |
| 2005 | 10,316 | 1,118 | 9,198 | 393 | 250 | 203 | 38 | 167 | 75 | 9,189 |
| 2006 | 9,915 | 1,105 | 8,810 | 419 | 228 | 214 | 39 | 169 | 75 | 8,771 |
| 2007 | 10,226 | 1,181 | 9,044 | 431 | 202 | 223 | 40 | 171 | 75 | 9,084 |
| 2008 | 10,487 | 1,223 | 9,264 | 437 | 179 | 232 | 41 | 172 | 75 | 9,351 |
| 2009 | 10,676 | 1,201 | 9,475 | 433 | 158 | 241 | 42 | 174 | 75 | 9,553 |
| 2010 | 11,039 | 1,357 | 9,681 | 424 | 140 | 250 | 43 | 176 | 75 | 9,931 |
| 2011 | 11,260 | 1,372 | 9,888 | 425 | 124 | 259 | 45 | 177 | 75 | 10,154 |
| 2012 | 11,487 | 1,396 | 10,091 | 426 | 109 | 269 | 46 | 179 | 75 | 10,383 |
| 2013 | 11,699 | 1,406 | 10,293 | 427 | 97 | 279 | 47 | 180 | 75 | 10,593 |
| 2014 | 11,921 | 1,429 | 10,492 | 428 | 86 | 289 | 48 | 182 | 75 | 10,813 |
| 2015 | 12,139 | 1,446 | 10,693 | 429 | 76 | 293 | 48 | 183 | 75 | 11,036 |

**Historical Values (1996 - 2005):**

Col. (2) = recorded peak + implemented load control + residential and commercial/industrial conservation and customer-owned self-service cogeneration.

Cols. (5) - (9) = cumulative conservation and load control capabilities at peak. Col. (8) includes commercial load management and standby generation.

Col. (OTH) = voltage reduction and customer-owned self-service cogeneration.

Col. (10) = (2) - (5) - (6) - (7) - (8) - (9) - (OTH).

**Projected Values (2006 - 2015):**

Cols. (2) - (4) = forecasted peak without load control, conservation, and customer-owned self-service cogeneration.

Cols. (5) - (9) = cumulative conservation and load control capabilities at peak. Col. (8) includes commercial load management and standby generation.

Col. (OTH) = customer-owned self-service cogeneration.

Col. (10) = (2) - (5) - (6) - (7) - (8) - (9) - (OTH).

PROGRESS ENERGY FLORIDA

SCHEDULE 3.2.1
HISTORY AND FORECAST OF WINTER PEAK DEMAND (MW)
BASE CASE

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (OTH) | (10) |
|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | TOTAL | WHOLESALE | RETAIL | INTERRUPTIBLE | RESIDENTIAL LOAD MANAGEMENT | RESIDENTIAL CONSERVATION | COMM. / IND. LOAD MANAGEMENT | COMM. / IND. CONSERVATION | OTHER DEMAND REDUCTIONS | NET FIRM DEMAND |
| 1995/96 | 10,562 | 1,489 | 9,073 | 255 | 1,156 | 106 | 15 | 95 | 201 | 8,734 |
| 1996/97 | 8,486 | 1,235 | 7,251 | 290 | 917 | 133 | 16 | 104 | 190 | 6,836 |
| 1997/98 | 7,752 | 941 | 6,811 | 318 | 663 | 164 | 17 | 112 | 168 | 6,310 |
| 1998/99 | 10,473 | 1,741 | 8,732 | 305 | 874 | 196 | 18 | 117 | 187 | 8,776 |
| 1999/00 | 10,040 | 1,728 | 8,312 | 225 | 849 | 229 | 20 | 119 | 182 | 8,416 |
| 2000/01 | 11,450 | 1,984 | 9,466 | 255 | 809 | 254 | 29 | 120 | 194 | 9,789 |
| 2001/02 | 10,676 | 1,624 | 9,052 | 285 | 770 | 278 | 24 | 121 | 188 | 9,010 |
| 2002/03 | 11,555 | 1,538 | 10,017 | 271 | 768 | 313 | 27 | 124 | 201 | 9,851 |
| 2003/04 | 9,290 | 1,167 | 8,123 | 498 | 761 | 343 | 24 | 125 | 227 | 7,312 |
| 2004/05 | 10,798 | 1,602 | 9,196 | 350 | 725 | 371 | 26 | 125 | 247 | 8,953 |
| 2005/06 | 10,987 | 1,413 | 9,574 | 430 | 696 | 405 | 28 | 127 | 254 | 9,047 |
| 2006/07 | 11,525 | 1,740 | 9,786 | 426 | 671 | 429 | 30 | 128 | 258 | 9,584 |
| 2007/08 | 11,750 | 1,734 | 10,016 | 444 | 649 | 453 | 31 | 130 | 262 | 9,780 |
| 2008/09 | 12,113 | 1,894 | 10,220 | 440 | 631 | 479 | 33 | 132 | 265 | 10,134 |
| 2009/10 | 12,514 | 2,088 | 10,426 | 432 | 615 | 506 | 35 | 133 | 269 | 10,524 |
| 2010/11 | 12,742 | 2,112 | 10,629 | 434 | 603 | 534 | 37 | 135 | 272 | 10,728 |
| 2011/12 | 13,019 | 2,191 | 10,828 | 435 | 593 | 566 | 38 | 136 | 276 | 10,975 |
| 2012/13 | 13,278 | 2,253 | 11,025 | 436 | 586 | 597 | 40 | 138 | 279 | 11,202 |
| 2013/14 | 13,537 | 2,314 | 11,223 | 437 | 581 | 628 | 42 | 139 | 282 | 11,428 |
| 2014/15 | 13,776 | 2,358 | 11,418 | 438 | 577 | 660 | 42 | 141 | 285 | 11,634 |

**Historical Values (1996 - 2005):**

Col. (2) = recorded peak + implemented load control + residential and commercial/industrial conservation and customer-owned self-service cogeneration.

Cols. (5) - (9) = cumulative conservation and load control capabilities at peak. Col. (8) includes commercial load management and standby generation.

Col. (OTH) = voltage reduction and customer-owned self-service cogeneration.

Col. (10) = (2) - (5) - (6) - (7) - (8) - (9) - (OTH).

**Projected Values (2006 - 2015):**

Cols. (2) - (4) = forecasted peak without load control, conservation, and customer-owned self-service cogeneration.

Cols. (5) - (9) = cumulative conservation and load control capabilities at peak. Col. (8) includes commercial load management and standby generation.

Col. (OTH) = voltage reduction and customer-owned self-service cogeneration.

Col. (10) = (2) - (5) - (6) - (7) - (8) - (9) - (OTH).

Schedule 3.2

History and Forecast of Winter Peak Demand
Base Case

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|---|---|---|---|---|---|---|---|---|---|
| Year | Total * | Wholesale ** | Retail * | Interruptible | Residential Load Management | Residential Conservation | Comm./Ind. Load Management | Comm./Ind. Conservation | Net Firm Demand |
| 1995/96 | 3,833 | 98 | 3,735 | 152 | 260 | 331 | 10 | 36 | 2,946 |
| 1996/97 | 3,632 | 109 | 3,523 | 228 | 164 | 353 | 21 | 38 | 2,719 |
| 1997/98 | 3,231 | 99 | 3,132 | 210 | 160 | 370 | 21 | 39 | 2,332 |
| 1998/99 | 3,985 | 131 | 3,854 | 152 | 266 | 388 | 18 | 40 | 2,990 |
| 1999/00 | 4,019 | 125 | 3,894 | 212 | 209 | 402 | 19 | 43 | 3,009 |
| 2000/01 | 4,405 | 136 | 4,269 | 191 | 196 | 410 | 21 | 44 | 3,407 |
| 2001/02 | 4,217 | 127 | 4,090 | 168 | 176 | 419 | 22 | 46 | 3,259 |
| 2002/03 | 4,484 | 129 | 4,355 | 195 | 210 | 428 | 21 | 46 | 3,455 |
| 2003/04 | 3,949 | 120 | 3,829 | 254 | 136 | 437 | 18 | 48 | 2,936 |
| 2004/05 | 4,308 | 129 | 4,179 | 194 | 189 | 444 | 16 | 49 | 3,287 |
| 2005/06 | 4,946 | 187 | 4,759 | 168 | 204 | 449 | 19 | 50 | 3,869 |
| 2006/07 | 5,093 | 188 | 4,905 | 171 | 201 | 452 | 19 | 50 | 4,012 |
| 2007/08 | 5,229 | 188 | 5,041 | 171 | 194 | 455 | 18 | 51 | 4,152 |
| 2008/09 | 5,358 | 188 | 5,170 | 171 | 191 | 457 | 18 | 51 | 4,282 |
| 2009/10 | 5,470 | 188 | 5,282 | 150 | 189 | 460 | 18 | 52 | 4,413 |
| 2010/11 | 5,601 | 188 | 5,413 | 150 | 187 | 461 | 19 | 52 | 4,544 |
| 2011/12 | 5,665 | 117 | 5,548 | 150 | 185 | 463 | 19 | 52 | 4,679 |
| 2012/13 | 5,786 | 102 | 5,684 | 149 | 183 | 464 | 20 | 53 | 4,815 |
| 2013/14 | 5,903 | 77 | 5,826 | 150 | 182 | 465 | 20 | 53 | 4,956 |
| 2014/15 | 6,047 | 77 | 5,970 | 150 | 180 | 466 | 21 | 53 | 5,100 |

December 31, 2005 Status

* Includes cumulative conservation.

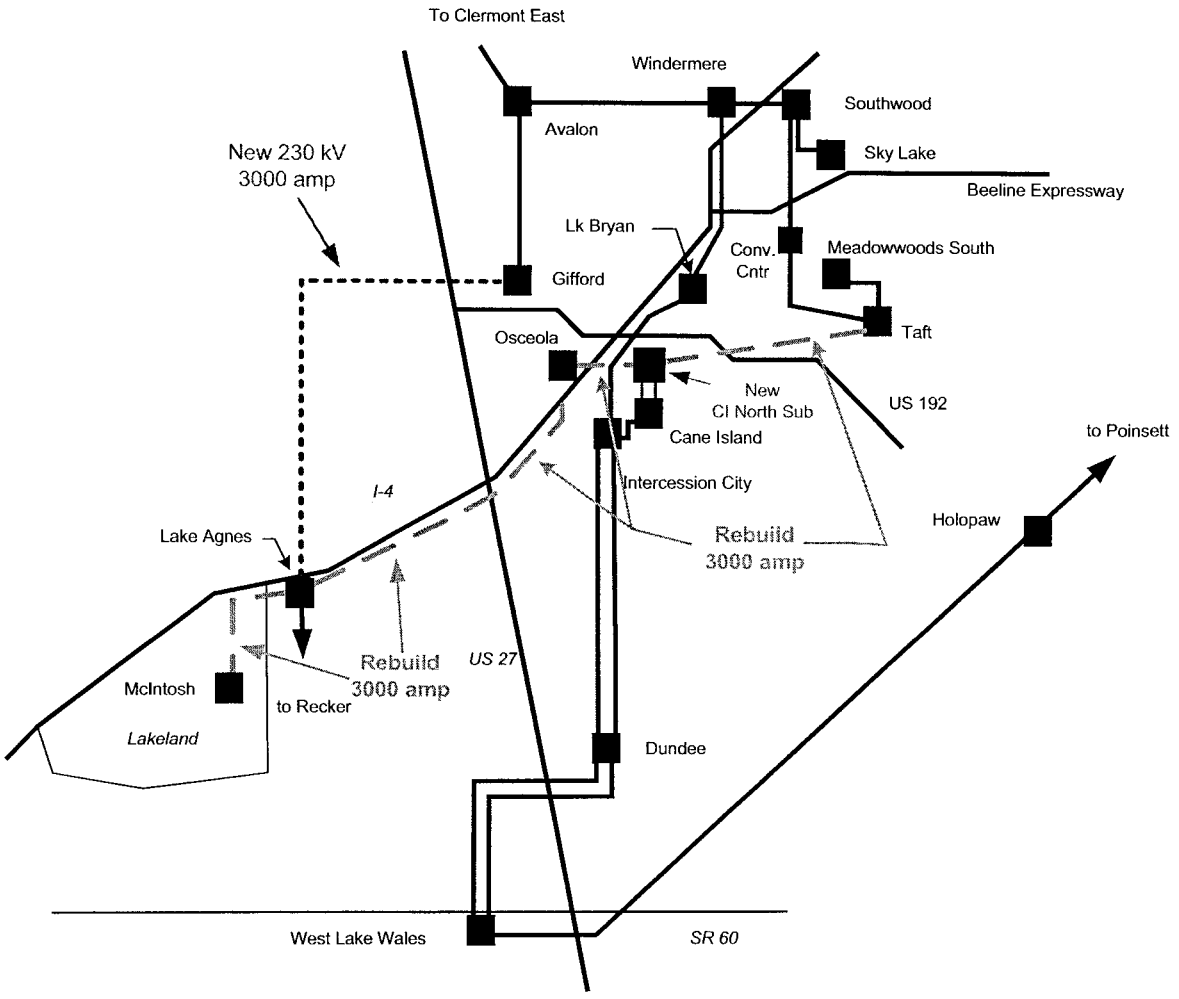
** Includes sales to Progress Energy Florida, Wauchula, Fort Meade, St. Cloud and Reedy Creek.

Note: Values shown may be affected due to rounding.

Docket No. 070393-EI
Tampa Electric's Historic
and Forecasted Peak Demand
Exhibit BT/TJS-2
Page 1 of 1

**Florida Central Coordinated Re-Study Project Recommendations**

Build new Lake Agnes to Gifford 230 kV line, rebuild McIntosh to Lake Agnes line, build new CI North Sub, rebuild CI North to Taft, rebuild Lake Agnes to Osceola and rebuild Osceola to CI North.




Docket No. 070393-EI
Project Area Transmission
System Map
Exhibit BT/TJS-3
Page 1 of 1

**Attachment 5: Transmission Planning Criteria**

Transmission Planning Criteria

The NERC Reliability Standards under Transmission Planning are divided into categories A, B, C and D and TEC uses these Standards as its planning criteria. Category **A** addresses normal system conditions with all facilities in service. Category B addresses system conditions following the loss of a single facility. Category C addresses system conditions following the loss of two or more facilities. Finally, Category D addresses system conditions following an extreme event where multiple facilities are removed from service. The primary need for transmission system upgrades is most frequently based on potential overload conditions associated with the Category B contingencies (single contingency) listed in Table 1 of this Attachment *5*. Generally, Category C and D multiple contingency analysis is used to identify potential situations of cascading interruptions or instability. The planned transmission system with its expected loads and transfers must be stable and within applicable ratings for all Category A, and B contingency scenarios. The effect of Category C and D contingencies on system stability is also evaluated. The design of new transmission connections should take into account and minimize, to the extent practical, the adverse consequences of Category C and D contingencies. Lower probability Category C and D contingencies, when they occur in combination with forecasted demand levels and firm interchange transactions, must not result in uncontrolled, cascading interruptions. While controlled interruption of load or opening of transmission circuits may be needed, the system should be within its emergency limits and capable of rapid restoration after operation of automatic controls.

## Table I. Transmission System Standards – Normal and Emergency Conditions

| Category | Contingencies | System Limits or Impacts | | |
|---|---|---|---|---|
| | Initiating Event(s) and Contingency Element(s) | System Stable and both Thermal and Voltage Limits within Applicable Rating [a] | Loss of Demand or Curtailed Firm Transfers | Cascading Outages |
| A<br>No Contingencies | All Facilities in Service | Yes | No | No |
| B<br>Event resulting in the loss of a single element. | Single Line Ground (SLG) or 3-Phase (3Ø) Fault, with Normal Clearing:<br>1. Generator<br>2. Transmission Circuit<br>3. Transformer<br>Loss of an Element without a Fault | Yes<br>Yes<br>Yes<br>Yes | No [b]<br>No [b]<br>No [b]<br>No [b] | No<br>No<br>No<br>No |
| | Single Pole Block, Normal Clearing [e]:<br>4. Single Pole (dc) Line | Yes | No [b] | No |
| C<br>Event(s) resulting in the loss of two or more (multiple) elements. | SLG Fault, with Normal Clearing [e]:<br>1. Bus Section<br>2. Breaker (failure or internal Fault) | Yes<br>Yes | Planned/ Controlled [c]<br>Planned/ Controlled [c] | No<br>No |
| | SLG or 3Ø Fault, with Normal Clearing [e], Manual System Adjustments, followed by another SLG or 3Ø Fault, with Normal Clearing [e]:<br>3. Category B (B1, B2, B3, or B4) contingency, manual system adjustments, followed by another Category B (B1, B2, B3, or B4) contingency | Yes | Planned/ Controlled [c] | No |
| | Bipolar Block, with Normal Clearing [e]:<br>4. Bipolar (dc) Line Fault (non 3Ø), with Normal Clearing [e]:<br>5. Any two circuits of a multiple circuit towerline [f] | Yes<br>Yes | Planned/ Controlled [c]<br>Planned/ Controlled [c] | No<br>No |
| | SLG Fault, with Delayed Clearing [e] (stuck breaker or protection system failure):<br>6. Generator<br>7. Transformer<br>8. Transmission Circuit<br>9. Bus Section | Yes<br>Yes<br>Yes<br>Yes | Planned/ Controlled [c]<br>Planned/ Controlled [c]<br>Planned/ Controlled [c]<br>Planned/ Controlled [c] | No<br>No<br>No<br>No |

## Standard TPL-001-0 — System Performance Under Normal Conditions

| | | |
|---|---|---|
| **D** [d]<br><br>Extreme event resulting in two or more (multiple) elements removed or Cascading out of service. | 3Ø Fault, with Delayed Clearing [e] (stuck breaker or protection system failure):<br>1. Generator<br>2. Transmission Circuit<br>3. Transformer<br>4. Bus Section<br><br>3Ø Fault, with Normal Clearing[e]:<br>5. Breaker (failure or internal Fault)<br><br>6. Loss of towerline with three or more circuits<br>7. All transmission lines on a common right-of way<br>8. Loss of a substation (one voltage level plus transformers)<br>9. Loss of a switching station (one voltage level plus transformers)<br>10. Loss of all generating units at a station<br>11. Loss of a large Load or major Load center<br>12. Failure of a fully redundant Special Protection System (or remedial action scheme) to operate when required<br>13. Operation, partial operation, or misoperation of a fully redundant Special Protection System (or Remedial Action Scheme) in response to an event or abnormal system condition for which it was not intended to operate<br>14. Impact of severe power swings or oscillations from Disturbances in another Regional Reliability Organization. | Evaluate for risks and consequences.<br>▪ May involve substantial loss of customer Demand and generation in a widespread area or areas.<br>▪ Portions or all of the interconnected systems may or may not achieve a new, stable operating point.<br>▪ Evaluation of these events may require joint studies with neighboring systems. |

a) Applicable rating refers to the applicable Normal and Emergency facility thermal Rating or system voltage limit as determined and consistently applied by the system or facility owner. Applicable Ratings may include Emergency Ratings applicable for short durations as required to permit operating steps necessary to maintain system control. All Ratings must be established consistent with applicable NERC Reliability Standards addressing Facility Ratings.

b) Planned or controlled interruption of electric supply to radial customers or some local Network customers, connected to or supplied by the Faulted element or by the affected area, may occur in certain areas without impacting the overall reliability of the interconnected transmission systems. To prepare for the next contingency, system adjustments are permitted, including curtailments of contracted Firm (non-recallable reserved) electric power Transfers.

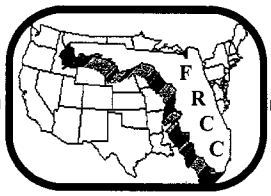
c) Depending on system design and expected system impacts, the controlled interruption of electric supply to customers (load shedding), the planned removal from service of certain generators, and/or the curtailment of contracted Firm (non-recallable reserved) electric power Transfers may be necessary to maintain the overall reliability of the interconnected transmission systems.

d) A number of extreme contingencies that are listed under Category D and judged to be critical by the transmission planning entity(ies) will be selected for evaluation. It is not expected that all possible facility outages under each listed contingency of Category D will be evaluated.

e) Normal clearing is when the protection system operates as designed and the Fault is cleared in the time normally expected with proper functioning of the installed protection systems. Delayed clearing of a Fault is due to failure of any protection system component such as a relay, circuit breaker, or current transformer, and not because of an intentional design delay.

f) System assessments may exclude these events where multiple circuit towers are used over short distances (e.g., station entrance, river crossings) in accordance with Regional exemption criteria.

# FRCC REVISED REGIONAL TRANSMISSION PLANNING PROCESS




FLORIDA RELIABILITY COORDINATING COUNCIL

**Approved by Planning Committee – May 2, 2007**

**Approved by Board of Directors – July 24, 2007**

# FRCC REGIONAL TRANSMISSION PLANNING PROCESS

The objective of the FRCC Regional Transmission Planning Process ("Planning Process") is to ensure coordination of the transmission planning activities within the FRCC Region in order to provide for the development of a robust transmission network in the FRCC Region.

## RESPONSIBILITY

The FRCC Board of Directors ("Board") shall have the responsibility to ensure this process is fully implemented.

The FRCC Planning Committee ("Planning Committee") shall direct the Transmission Working Group ("TWG"), and the Stability Working Group (SWG), as appropriate, in conjunction with the FRCC staff, to conduct the necessary studies to fully implement the Planning Process.

## PURPOSE

The Planning Process is intended to develop a regional transmission plan to meet the existing and future requirements of all customers/users, providers, owners, and operators of the transmission system in a coordinated, open and transparent transmission planning environment.

The Planning Process is intended to ensure the long-term reliability of the bulk power system in the FRCC region. However, nothing in this process is intended to limit or override rights or obligations of transmission providers, owners and/or transmission customers/users contained in any rate schedules, tariffs or binding regulatory orders issued by applicable federal, state or local agencies. In the event that a conflict arises between the Planning Process and the rights and obligations included in those rate schedules, tariffs or regulatory orders, and the conflict cannot be mutually resolved among the appropriate transmission providers, owners, or customers/users, any affected party may seek a resolution from the appropriate regulatory agencies or judicial bodies having jurisdiction.

## STUDY PROCESS

Studies conducted pursuant to the Planning Process will utilize the applicable reliability standards and criteria of the FRCC and NERC that apply to the Bulk Power System as defined by NERC. Such studies shall also utilize the specific design, operating and planning criteria used by FRCC transmission owners/providers to the extent these specific design, operating and planning criteria meet FRCC and NERC reliability standards and criteria or are more stringent than any applicable FRCC and/or NERC standards and criteria.

The 69kV transmission facilities do not fall under the NERC definition of Bulk Power System; however, for the purpose of the Planning Process only, these facilities shall be studied as though they were included in the NERC Bulk Power System definition in order to better coordinate and improve the transmission system in the FRCC Region.

The Planning Process shall begin with the consolidation of the long term transmission plans of all of the transmission owners/providers in the FRCC Region. It is the FRCC's expectation that the long term transmission plans incorporate the integration of new firm resources as well as other firm commitments. This will include all transmission facilities 69 kV and above. Detailed evaluation and analysis of these plans will be conducted by the TWG/SWG, in concert with the FRCC staff, and managed by the Planning Committee. Such evaluation and analysis will provide the basis for possible recommended changes to individual system plans that, if implemented, would result in a more reliable and robust transmission system for the FRCC Region.

The assessment of the long-term transmission plan shall be comprehensive and in-depth. While the final recommended plan may not call for the construction of all transmission facilities identified in various sensitivities, the assessment will provide valuable information on the strength of the transmission system to aid in understanding how the system would perform in various situations. The examination of multiple expected system conditions shall be performed, including an assessment of areas with recurring, significant congestion. As determined by the Planning Committee, these conditions or sensitivities may include any of, but not be limited to, the types listed below:

- Transmission and/or generation facilities unavailable due to scheduled and/or forced outages.
- Weather extremes for summer and winter periods.
- Different load levels (e.g., 100%, 80%, 60%, 40%) and/or periods of the year (Winter, Spring, Summer and Fall).
- Various generation dispatches that will test or stress the transmission system which may include economic dispatch from all generation (firm and non-firm) in the region.
- Reactive supply and demand assessment (e.g. generator reactive limits, power factor, etc.)
- A specific area where a combination/cluster of generation and load serving capability is among various transmission owners/providers in the FRCC that continually experience or is expected in the future to experience significant transmission congestion on their transmission facilities will be reviewed annually and restudied as required. The analysis should reflect the upgrades necessary to integrate new generation resources and/or loads on an aggregate or regional (cluster) basis.

Additionally, such analysis may include an estimate of the cost of congestion as appropriate.

- Other scenarios or system conditions as identified by the Planning Committee (e.g. stability analysis)

For the first 5 years of the planning period, a detailed evaluation will be conducted. For years 6 through 10, a more generalized higher-level study will be conducted.

The Planning Committee shall submit a formal report of the assessment and findings, including any recommendations to the Board. Such report shall include an action plan that identifies:

- Any recommended modifications to transmission owners'/providers' long term plans that, in the judgment of the Planning Committee, offer worthwhile enhancements to regional transmission grid reliability.

- The identification of those elements of the recommended plan that cannot be implemented due to the inability to obtain the required commitments of the affected transmission owner(s)/provider(s) and user(s) to implement the plan.
- The identification of an alternative plan that does have the commitment of the affected transmission owner(s)/provider(s) and user(s) with regard to implementation.
- Any minority views expressed by any member of the Planning Committee as well as the identification of any unresolved issues.

## TRANSMISSION PLANNING PROCESS STEPS

A Regional FRCC Transmission Plan ("Regional Plan") shall be developed on an annual basis using the Planning Process. The Regional Plan shall be based on the Ten Year Site Plans that are required to be submitted to the Florida Public Service Commission on April 1st of each year. Any generating or transmission entity not required to submit a ten year plan to the Florida Public Service Commission, shall submit its ten year generation expansion plan to the FRCC on April 1st of each year. These ten year plans shall include the generation expansion plans for load serving entities and firm/network use of transmission submitted by transmission owners/providers.

**Step 1– Planning Committee Initiates FRCC Transmission Planning Review and Coordination Process**

Transmission owners/providers shall submit to the Planning Committee their latest 10-year expansion plan for their transmission system, including a list of transmission projects that provides for all of their firm obligations based on the best available information. FRCC will post on the FRCC web site the 10-year expansion plans.

**Step 2 – Feedback from Transmission Customers/Users/Others of Individual 10-Year Expansion Plan**

Transmission customers/users and other affected parties shall submit to the Planning Committee and affected transmission owners/providers any issues or special needs they feel have not been adequately addressed by the applicable transmission owner's/provider's 10-year expansion plan, and the underlying evaluation demonstrating the rationale for their concern.

**Step 3 – Review and Assessment by Planning Committee**

The Planning Committee shall review and assess transmission owner's/provider's plans from an overall FRCC perspective, ensuring that all affected transmission customers'/users' issues have been identified.

The Planning Committee, the transmission owners/providers and the transmission customers/users shall consult, as appropriate, during this period to address the issues of all parties to ensure their due consideration with regard to possible inclusion into the Regional Plan.

The Planning Committee shall address any issue or area of concern not previously or adequately addressed with emphasis on constructing a robust regional transmission system.

As identified under Information Exchange, the databank used in the development of the Regional Plan will be updated at least quarterly by the TWG. Any changes to the databank that could materially impact the Regional Plan, or affected other parties, will be reviewed by the TWG to determine whether or not the Regional Plan should be revised to reflect those changes.

The Planning Committee shall form working group(s), as necessary, to address specific matter(s) that require further technical assessment or evaluation.

**Step 4 – Issuance of Preliminary Regional Plan**

The Planning Committee shall issue the preliminary Regional Plan to all FRCC members, and shall identify any proposed modification to the original transmission owner's/provider's plan. The purpose of this step is to receive comments and to identify any remaining unresolved issues.

**Step 5 – Approval of Regional Plan**

The Planning Committee shall present to the transmission owners/providers, affected transmission customers/users, and other FRCC members a general overview and comments on the Regional Plan, including proposed modifications to each transmission owner's/provider's individual transmission plan.

The Planning Committee shall identify and discuss minority opinions and unresolved issues.

The Planning Committee shall approve the Regional Plan and present it to the Board for its consideration. The Plan may include specific matters that require further technical assessment or evaluation that have been assigned to a working group, and some unresolved issues may still be pending final resolution.

The Board shall take action on the Regional Plan. The resultant Board approved Regional Plan shall be posted on the FRCC public web site and shall be sent to the Florida Public Service Commission.

**Step 6 – Unresolved Issues**

If any member of the Planning Committee eligible to vote has an unresolved issue(s) after the Planning Committee approves the Regional Plan, said member may direct the Planning Committee to present such unresolved issue(s) to the Board at the same time the Regional Plan is presented for approval.

If the Board fails to satisfy the concerns of the party raising the unresolved issue(s), the party may request the matter be set for Dispute Resolution as set forth in this document. At such time, the FRCC will provide written notice to the Florida Public Service Commission of such unresolved regional reliability issue.

## OPENNESS & TRANSPARENCY

It is the intent of the FRCC that the Planning Process be conducted in an open manner in such a way that it ensures fair treatment for all customers/users,

owners and operators of the transmission system. This will be accomplished through the process described herein.

**Coordination of Transmission Requests**

Transmission providers will provide their long-term firm transmission service requests queues and generator interconnection service requests queues to the FRCC in a common format. The FRCC will consolidate all individual queues for coordination purposes and will post the individual queues and the consolidated queue for coordination purposes for all FRCC members to view.

Each transmission provider will furnish the FRCC with a study schedule for each system impact study so that other potentially impacted transmission owners/providers can independently assess whether they may be impacted by the request and determine whether they want to submit a request to the appropriate transmission provider to participate in or monitor the study process. Transmission providers shall allow other transmission owners/providers with potentially impacted transmission facilities to participate in or monitor the study. To the extent there is a question regarding whether a transmission owner's/provider's facilities are impacted, the FRCC will make a determination as to whether the transmission owners'/providers' facilities are impacted. If the study schedules are modified based on discussions with the transmission requestor(s), the updated schedule will also be provided to FRCC.

At the time the system impact study is completed and the study results are presented to the applicable transmission requestor, each transmission provider, in consultation with said requestor, will provide the study results and related models to the FRCC. If the results obtained in the system impact study show that more than one option is recommended for further consideration, the results and related models associated with such options will also be provided to the FRCC.

The FRCC shall make available to all transmission owners/providers, through the TWG, the system impact study schedules and results in order for the TWG, SWG, or any transmission owner/provider to review the system impact studies for any adverse impacts on its system.

The TWG, in concert with the FRCC staff, shall review, and if necessary, perform analyses on the system impact studies to determine if there are any reliability concerns. Such review and analysis shall not delay any regulatory requirements for processing Transmission Service or Generation Interconnection Services requests by the transmission provider. Study results/findings will be made available to the FRCC Planning Committee and the applicable transmission provider for discussion and other action as appropriate.

**Public Notice**
**(Currently under review by the FRCC Standards of Conduct Task Force)**

The following process will be followed for any Planning Committee and/or Board meeting in which transmission plans or related study results will be exchanged, discussed or presented:

**Meeting Notice**
At least two weeks prior to a regular meeting, or 5 business days in the case of a special meeting, the time, place and agenda of that portion of the meeting directly related to discussions of transmission expansion plans or study results will be posted on the FRCC's member web site, as well as each Florida transmission provider's OASIS.

**Posting of Documents**
Completed FRCC transmission planning studies will be posted on the FRCC's member web site, as well as the OASIS site of any applicable transmission provider(s), subject to possible redaction of user sensitive or critical infrastructure information. A customer/user may enter into a confidentiality agreement with the FRCC and/or applicable transmission owner/provider, as appropriate, to be eligible to review pertinent information relative to the transmission study results subject to critical infrastructure security and market business rules and standards.

**Meeting Minutes**
Meeting minutes directly related to discussions of transmission expansion plans or study results will be posted as soon as practicable (but no later than one business day) after the end of the meeting on the FRCC's member web site, as well as each Florida transmission provider's OASIS.

**INFORMATION EXCHANGE**

The FRCC shall maintain a databank of all planned and committed transmission and generation projects, including upgrades, new facilities, and changes to planned in-service dates. This databank shall be updated by the TWG no less frequently than once each quarter and no more frequently than once a month. The frequency of such updates will be determined by the TWG as necessary to ensure that changes that could materially impact the reliability of the transmission system or individual customers/users are reflected in the databank in a timely manner.

The FRCC shall maintain and update the load flow, short circuit and stability models on a quarterly basis, as noted above, utilizing the updated databank to ensure that any changes in transmission or generation projects are

reflected in the above models. In the event the databank is updated, such changes will immediately be sent to the TWG and the Planning Committee for their review.

These updated models will be made available to all transmission owners/providers in the TWG and SWG for their individual use and for the TWG's use.

## COST ALLOCATION METHODOLOGY AND PRINCIPLES

**(Currently under development by the FRCC Cost Sharing Task Force)**

## DISPUTE RESOLUTION

Any party raising an unresolved issue may request the Mediator Process as described in this document.

If, after the Mediator Process is completed and the issue is still unresolved, by mutual agreement between the parties, the Independent Evaluator Dispute Resolution Process as described in this document will be utilized.

If the unresolved issue involves the inability to reach agreement on the timing or funding of construction of critical transmission facilities required for regional reliability in a timely manner, and such unresolved issue is not resolved by either of the Dispute Resolution Processes described below, the transmission owners/providers, affected parties, or the FRCC may request that the Florida Public Service Commission address such unresolved dispute. Notwithstanding the foregoing, any unresolved issues may be submitted to any regulatory or judicial body having jurisdiction.

### Mediator Dispute Resolution Process (Non-Binding)

The Mediator Process shall be completed within sixty (60) days of commencement.

A mediator shall be selected jointly by the disputing parties. The mediator shall (1) be knowledgeable in the subject matter of the dispute, and (2) have no official, financial, or personal conflict of interest with respect to the issues in controversy, unless the interest is fully disclosed in writing to all participants and all participants waive in writing any objection to the interest.

The disputing parties shall attempt in good faith to resolve the dispute in accordance with the procedures and timetable established by the mediator. In furtherance of the mediation efforts, the mediator may:

a. Require the parties to meet for face-to-face discussions, with or without the mediator;

b. Act as an intermediary between the disputing parties;

c. Require the disputing parties to submit written statements of issues and positions; and

d. If requested by the disputing parties, provide a written recommendation on resolution of the dispute.

If a resolution of the dispute is not reached by the 30th day after the appointment of the mediator or such later date as may be agreed to by the parties, the mediator shall promptly provide the disputing parties with a written, confidential, non-binding recommendation on resolution of the dispute, including the mediator's assessment of the merits of the principal positions being advanced by each of the disputing parties. At a time and place specified by the mediator after delivery of the foregoing recommendation, but no later than 15 days after issuance of the mediator's recommendation, the disputing parties shall meet in a good faith attempt to resolve the dispute in light of the mediator's recommendation. Each disputing party shall be represented at the meeting by a person with authority to settle the dispute, along with such other persons as each disputing party shall deem appropriate. If the disputing parties are unable to resolve the dispute at or in connection with this meeting, then: (1) any disputing party may commence such arbitral, judicial, regulatory or other proceedings as may be appropriate; and (2) the recommendation of the mediator shall have no further force or effect, and shall not be admissible for any purpose, in any subsequent arbitral, administrative, judicial, or other proceeding.

The costs of the time, expenses, and other charges of the mediator and of the mediation process shall be borne by the parties to the dispute, with each side in a mediated matter bearing one-half of such costs. Each party shall bear its own costs and attorney's fees incurred in connection with any mediation under this Agreement.

**Independent Evaluator Dispute Resolution Process (Non-Binding)**

The Independent Evaluator Dispute Resolution Process shall be completed within ninety (90) days.

- An assessment of the unresolved issue(s) shall be performed by an Independent Evaluator that will be selected by the Board. The Independent Evaluator shall evaluate the disputed issue(s) utilizing the same criteria that the Planning Committee is held to; that is, "the applicable reliability criteria of FRCC and NERC, and the individual transmission owner's/provider's specific design, operating and planning criteria".

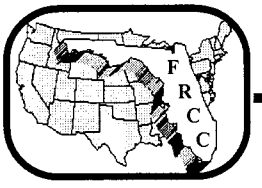
- The Independent Evaluator shall be a recognized independent expert with substantial experience in the field of transmission planning; with no past business relationship to any of the affected parties within the past two years from the date the Dispute Resolution Process is started. A list of qualified experts should be pre-established so that when an issue arises the Board can expedite the process.

- The Board shall retain an Independent Evaluator within fifteen (15) days of the request to utilize the Independent Evaluator Dispute Resolution Process.

- The Independent Evaluator shall prepare a report of its findings, with recommendations on the unresolved issue(s), to the Board and the Planning Committee within forty-five (45) days from the date the Board selected the Independent Evaluator. The Independent Evaluator's findings and recommendations shall not be binding. The Board, with the assistance of the Planning Committee and the Independent Evaluator's report, shall attempt to resolve the unresolved issue(s) within thirty (30) days from receipt of the Independent Evaluator's report. If the Board fails to resolve the issue(s) to the satisfaction of all parties, any disputing party may commence such arbitral, judicial, regulatory or other proceedings as may be appropriate.

- The costs of the Independent Evaluator shall be borne by the parties to the dispute with each party bearing an equal share of such costs. The FRCC shall be one of the parties. Each party shall bear its own costs and attorney fees incurred in connection with the dispute resolution.

# FCCS Re-Study Report
# Executive Summary
Prepared by TWG




FLORIDA RELIABILITY COORDINATING COUNCIL
1408 N. Westshore Blvd., Suite 1002
Tampa, Florida 33607-4512
www.frcc.com
Phone (813) 289-5644

*July, 2006*

*Approved by FRCC Board of Directors – July 25, 2006*

# FCCS Re-Study – Executive Summary

## Background

The original Florida Central Coordinated Study (FCCS) was initiated in June 2005 to determine the impact of planned additional generation in the 2008 through 2012 time frame in the Polk/Hardee County area and the effects of such generation on the transmission networks. The FCCS was completed in May 2006 and identified the need for transmission system improvements along the Interstate (I-4) corridor to accommodate power transfers from existing and planned generation in the Polk/Hardee County area to the Greater Orlando area load center. Specifically, the FCCS identified the need for the construction of a new 230 kV line from West Lake Wales to Intercession City with bundled 954 conductor, and the rebuild of the existing 230 kV line between West Lake Wales and Intercession City with bundled 954 conductor by 2008, or sooner if possible. Progress Energy (PEF) has begun work on these projects and has determined that the new lines should loop into the existing Dundee substation. PEF has committed to construct these facilities but the final segments will not be constructed until 2011. In addition, the FCCS also recommended the construction of a new Lake Agnes – Gifford – Avalon 230 kV line or alternatively, the rebuild of the existing McIntosh – Lake Agnes – Osceola – Cane Island – Taft 230 kV line, along with other associated projects, by the summer of 2011.

The original FCCS report was accepted by the FRCC Planning Committee as the necessary improvements needed for the FRCC to meet the NERC reliability standards.

As a result of many significant changes between the 2005 and 2006 FRCC databank cases, including increased load forecast assumptions and additional generation sited in the study area, it was determined that the original study should be reassessed with the new data to verify the results of the original FCCS report. At the April 2006 meeting of the FRCC Board of Directors, the TWG was directed to conduct a re-study with the most current updated database, which consists of the 2006 ten-year site plans. The Board directed that the re-study be completed and sent to the Planning Committee for approval by July 6, 2006. The re-study and report is to be presented to the FRCC Board of Directors for approval no later than August 14, 2006.

## Study Assumptions and Sensitivities

The FCCS re-study assumed that 2011 would be the earliest in-service date for any major new or rebuilt transmission project. The re-study focused on transmission construction alternatives for 2011 and 2012, and evaluated the performance of the currently planned transmission system for 2008, 2009 and 2010. In addition to these base cases, study years 2013 and 2014 were examined as sensitivities. Each of the following extended generation outages were also examined as sensitivities: Sanford 4, Stanton A and Cane Island 3. The transmission line segments between McIntosh and Taft were evaluated with a single 2000 amp circuit, a single 3000 amp circuit and two 2000 amp circuits. Also, the presently uncommitted merchant generation resources in the FRCC were dispatched as additional sensitivities.

**Recommendation**

To ensure that the transmission system within FRCC continues to meet the NERC reliability standards the following transmission construction projects need to be completed:

| **Original FCCS Projects Included in Re-Study Base Case** | | | | | | | |
|---|---|---|---|---|---|---|---|
| From | To | New / Rebuild | Miles | Needed In-Service | Planned In-Service | Ownership | Estimated Cost ($M) |
| West Lake Wales | Dundee #2 | New | 13.2 | Before '08 | Jun, 2009 | PEF | $28.5 |
| Dundee | Intercession City #2 | New | 25.9 | Before '08 | Jun, 2010 | PEF | $54.1 |
| West Lake Wales | Dundee #1 | Rebuild | 9.7 | Before '08 | Jun, 2011 | PEF | $20.5 |
| Dundee | Intercession City #1 | Rebuild | 20.3 | Before '08 | Jun, 2011 | PEF | $40.5 |
| Avalon | Gifford | New | 7 | Before '08 | Jun, 2008 | PEF | $33.0 |
| Vandolah | Charlotte | Terminal | -- | Dec, 2008 | Dec, 2008 | FPL | $0.1 |
| Poinsett | Holopaw | Terminal | -- | Dec, 2008 | Dec, 2008 | FPL | $0.1 |
| | | | | | | | |
| **Florida Central Coordinated Re-Study Projects** | | | | | | | |
| | | | | | | | |
| Lake Agnes | Gifford | | | | | PEF/TEC | |
| Lake Agnes | PEF/TEC tie point | New | 13.1 | Before '08 | Jun, 2011 | TEC | $23.5 |
| Gifford | PEF/TEC tie point | New | 19.3 | Before '08 | Jun, 2011 | PEF | $44.0 |
| | | | | | | | |
| McIntosh | Lake Agnes | Rebuild | 9.4 | Before '08 | Jun, 2011 | OUC * | $27.6 |
| | | | | | | | |
| Cl North substation | | New Sub | -- | Jun, 2011 | Jun, 2010 | FMPA/KUA/ OUC | $20.0 |
| Cl North | Taft | Rebuild | 11.2 | Jun, 2011 | Jun, 2010 | OUC * | $32.6 |
| | | | | | | | |
| Lake Agnes | Osceola | Rebuild | 21.5 | Before '08 | Jun, 2012 | OUC/TEC * | $64.0 |
| | | | | | | | |
| Osceola | Cl North | Rebuild | 4.1 | Jun, 2011 | Jun, 2013 | OUC/TEC * | $29.0 |
| | | | | | | | |
| | Total miles | Rebuild | 76.2 | | | | |
| | 154.7 | New | 78.5 | | | Total | $417.4 |

* Cost estimates for these projects are based on one 3000 amp circuit. These cost estimates were obtained by adding 45% to OUC's cost estimate for one 2000 amp circuit.

**NOTE:** Based on the current and future system conditions identified for 2008 – 2010, the projects listed below (and shown above as needed "Before '08") should be constructed as soon as practical based on an expedited schedule to ensure reliable operations:

West Lake Wales – Dundee – Intercession City #2 new 230 kV line
West Lake Wales – Dundee – Intercession City #1 230 kV rebuild
**AND**
Lake Agnes – Osceola 230 kV rebuild **OR** Avalon – Gifford new 230 kV line, Lake Agnes – Gifford new 230 kV line and McIntosh – Lake Agnes 230 kV rebuild

The study concluded that a single 2000 amp design for all the segments of the McIntosh – Taft 230 kV line would be sufficient to meet the needs for 2011 and 2012, but could become a limiting factor in the future. Therefore, all of the recommended transmission line projects should be constructed with the capability of being upgraded to two 3000 amp circuits, in order to take full advantage of the Polk/Hardee County area and the Greater Orlando area existing corridors. All dollars and proposed in-service dates listed above are estimates by the respective utilities and while they represent various levels of engineering and real estate scrutiny, are not detailed engineering level estimates.

Between the Summer of 2008 and 2010 there are various pre-contingency and post contingency overloads. With the original FCCS projects installed per the construction schedule provided by PEF for the West Lake Wales – Intercession City 230 kV projects, interim operational work-arounds will still be needed in 2008, 2009 and 2010. Some of the post contingency overloads on the Lake Agnes – Osceola 230 kV line exceed 130% and would require pre-contingency steps be taken. In general a generation redispatch of between 50 – 200 MW from the Polk/Hardee County area to the Greater Orlando area will be required during peak periods to avoid pre-contingency overloads. For post-contingency scenarios, a generation redispatch of 50 – 450 MW from the Polk/Hardee County area to the Greater Orlando area may be required to mitigate overloads. The switchable series reactor on the Lake Agnes – Osceola line is useful only under certain situations, since using it to reduce loading on the Lake Agnes – Osceola 230 kV line increases the loading on other facilities.

**Uncommitted Merchant Generation Sensitivities**

With the recommended projects constructed by summer 2011, between 500 – 700 MW of the 1400 MW of uncommitted merchant generation in the Polk/Hardee County area can be reliably delivered to the load.

**Explanation of Need**

Using the 2011 and 2012 base cases (with West Lake Wales – Dundee – Intercession City projects in service), the following conditions were found:

| Monitored Lines | Base Loading (%) | Contingency Loading (%) |
|---|---|---|
| OUC Tap* – Taft | 95.2 | 113.2 |
| WLW – Dundee #1 | 67.3 | 120.4 |
| Cane Island – OUC Tap* | 95.2 | 102.6 |
| Lake Agnes – Osceola | 86.4 | 107.7 |

* OUC Tap is where the Cane Island transmission lines change ownership and proceed to Osceola and Taft. The proposed CI North substation will be near the same location.

In addition to the base case results, the generation unavailable cases were evaluated to determine the sensitivity of the line loadings to changes in generation dispatch. These cases showed that the flows on the overloaded lines in the base cases could be increased between 10 – 15% under the more severe generation dispatch scenarios.

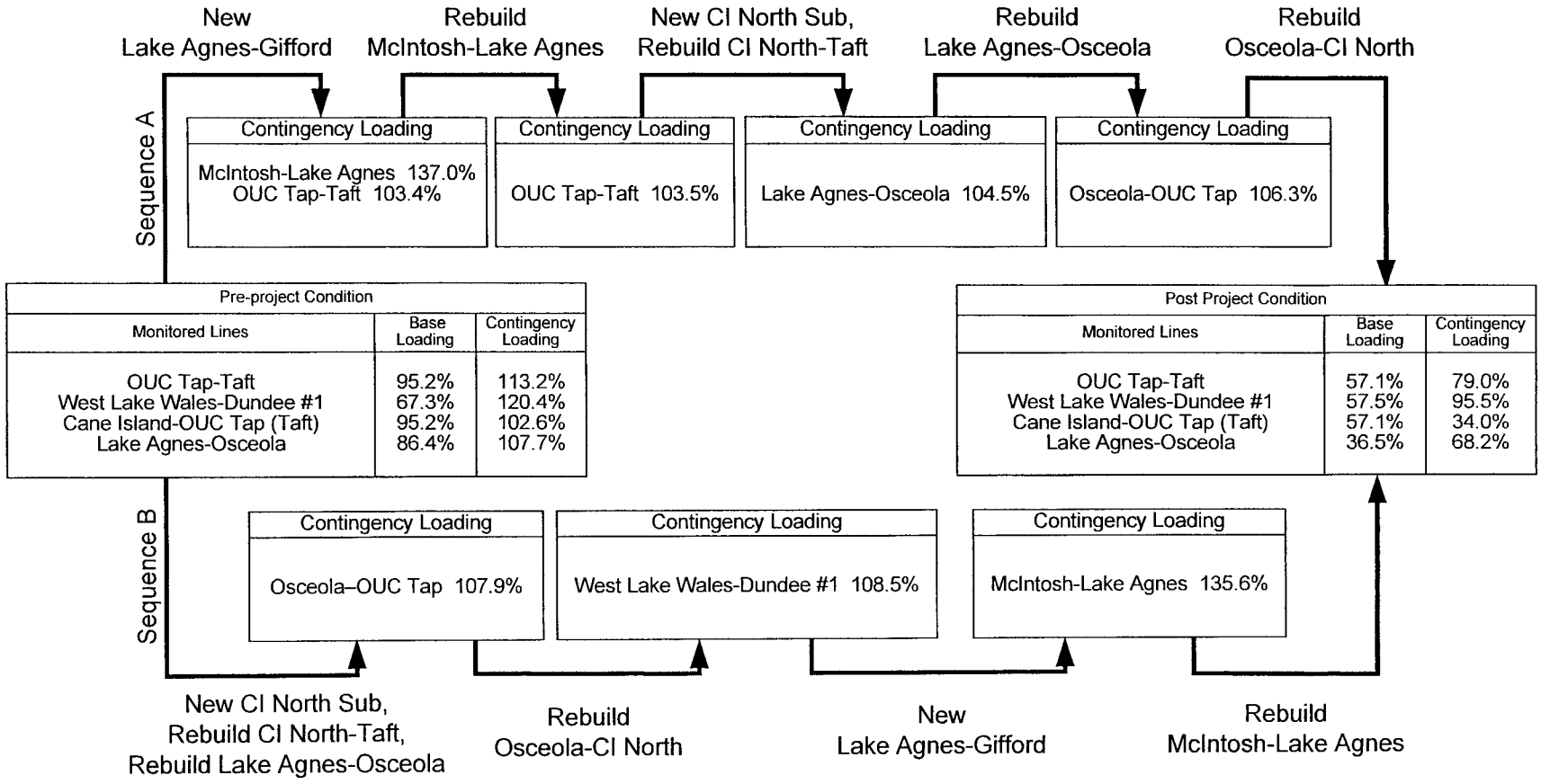
Many different combinations of projects were tested to determine the projects that were needed to resolve the base case and contingency overloads. After this extensive analysis, it was determined that no single set of projects within any corridor would resolve all of the issues for 2011 and 2012. Two sequences of projects were used to ensure that every project on the recommended list of projects was needed by 2011. Each sequence of projects with the most heavily loaded lines shown to justify the next project is shown in Figure 1.

**Conclusion**

To ensure that the transmission system within FRCC continues to meet the NERC reliability standards the following actions are recommended:

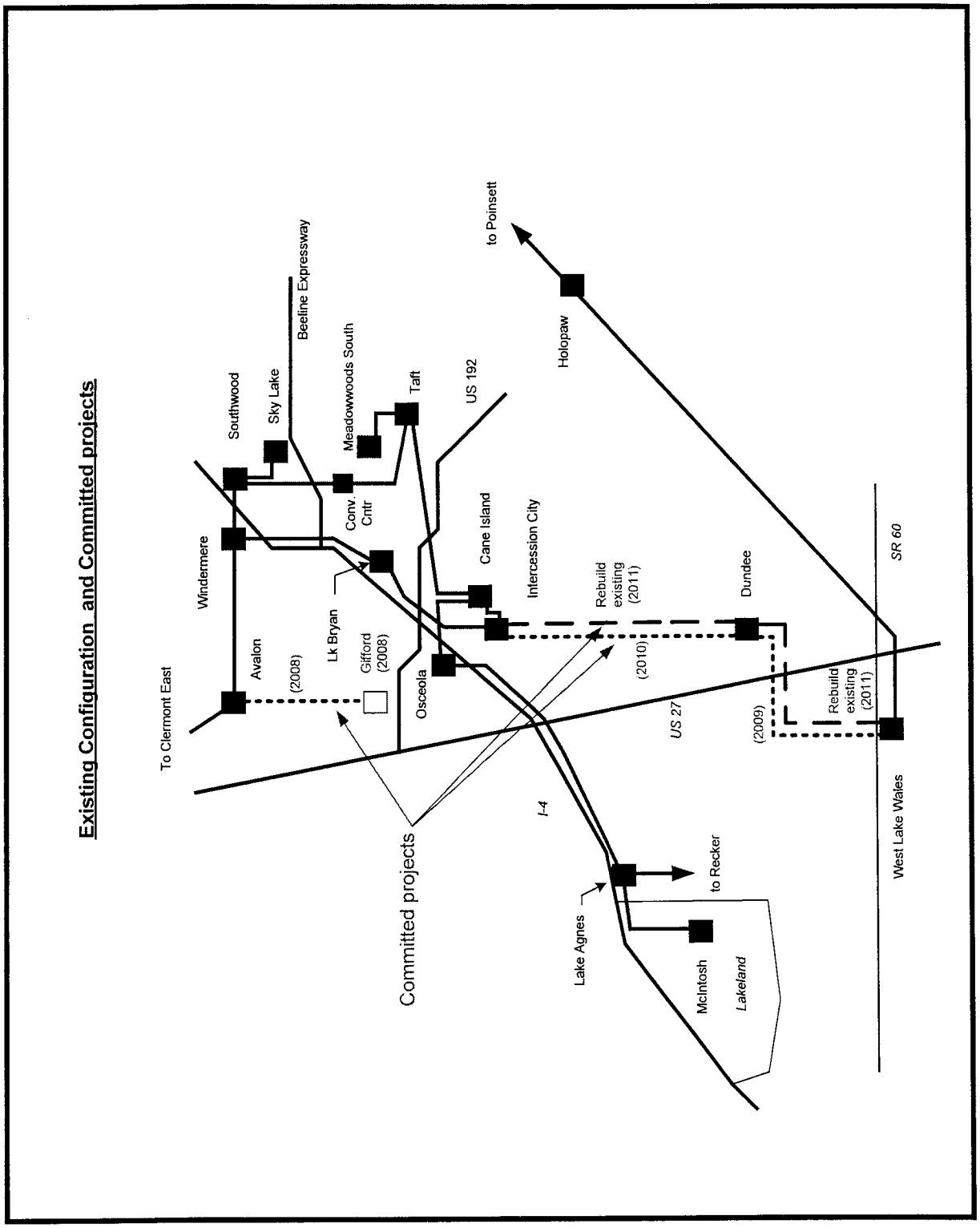
- The Planning Committee (PC) should consider codifying a process to review all long-term firm transmission service requests that may have an adverse impact on the study area.
- Complete the PEF West Lake Wales – Dundee new 230 kV, Dundee – Intercession City new 230 kV line and the West Lake Wales – Dundee – Intercession 230 kV rebuild projects as soon as practical.
- Take full advantage of the Polk/Hardee County area and Greater Orlando area existing corridors by building transmission lines at 3000 amps, with provision for a second circuit.
- Begin detailed engineering and permitting work on the recommended projects immediately.
- Obtain firm commitment to fund and complete the projects as soon as practical.
- Begin a long-term transmission study in the 4$^{th}$ Quarter of 2006 to further examine the system performance with these recommended projects beyond 2012 with updated assumptions for load and generation siting.

# Florida Central Area Contingency Loading and Proposed Projects



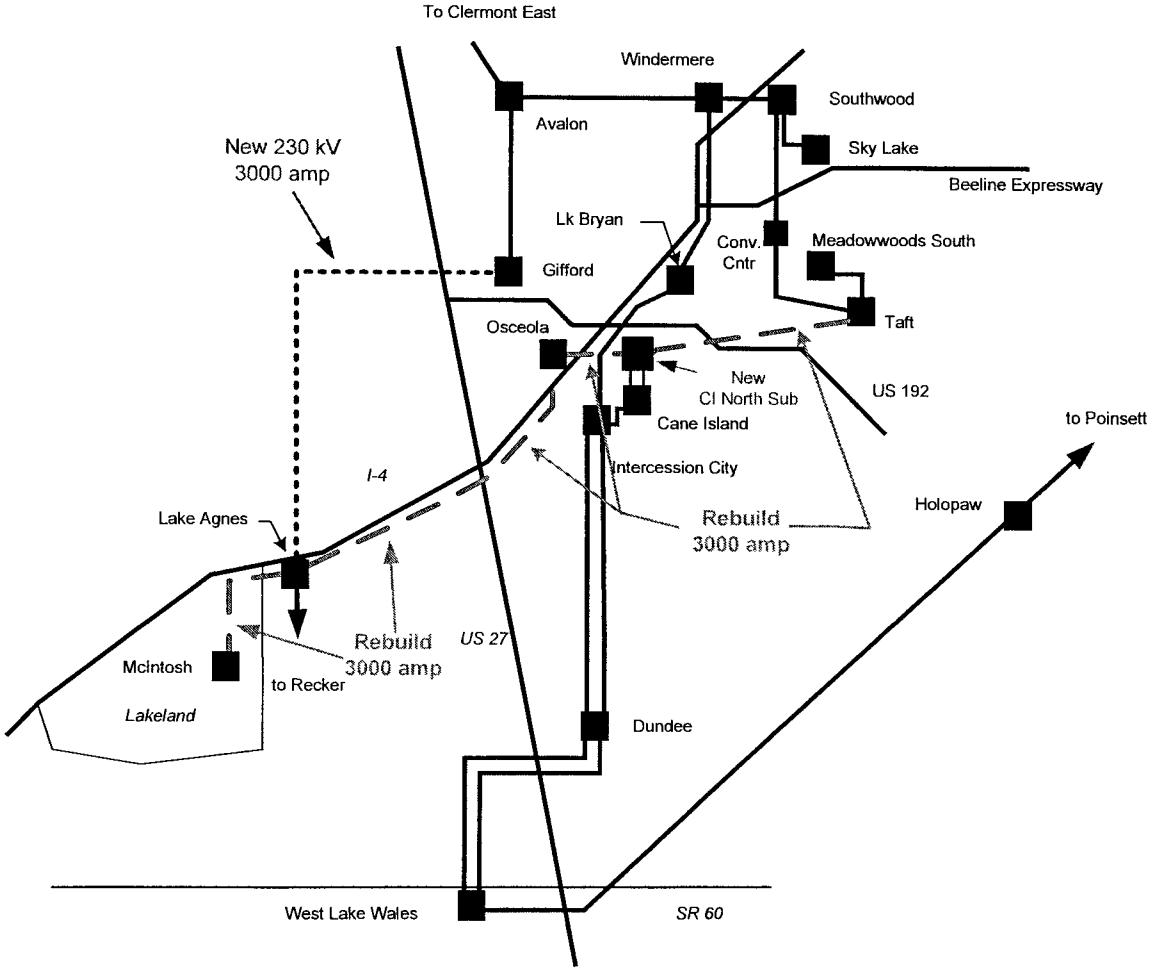

Note: OUC Tap is where the Cane Island transmission lines change ownership and proceed to Osceola and Taft. The proposed CI North substation will be near the same location.

**Figure 1**


Existing Configuration and Committed projects
Beeline Expressway
Southwood
Sky Lake
Meadowwoods South
Taft
US 192
to Poinsett
Holopaw
Windermere
Conv. Cntr
Cane Island
Intercession City
Rebuild existing (2011)
Dundee
SR 60
To Clermont East
Avalon
(2008)
Lk Bryan
Gifford (2008)
Osceola
(2010)
US 27
(2009)
Rebuild existing (2011)
I-4
Committed projects
to Recker
West Lake Wales
Lake Agnes
McIntosh
Lakeland

**Florida Central Coordinated Re-Study Project Recommendations**

Build new Lake Agnes to Gifford 230 kV line, rebuild McIntosh to Lake Agnes line, build new CI North Sub, rebuild CI North to Taft, rebuild Lake Agnes to Osceola and rebuild Osceola to CI North.



**Recommendation**

To ensure that the transmission system within FRCC continues to meet the NERC reliability standards the following transmission construction projects need to be completed:

| **Original FCCS Projects Included in Re-Study Base Case** | | | | | | | |
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| From | To | New / Rebuild | Miles | Needed In-Service | Planned In-Service | Ownership | Estimated Cost ($M) |
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| **Florida Central Coordinated Re-Study Projects** | | | | | | | |
| | | | | | | | |
| Lake Agnes | Gifford | | | | | PEF/TEC | |
| Lake Agnes | PEF/TEC tie point | New | 13.1 | Before '08 | Jun, 2011 | TEC | $23.5 |
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| | | | | | | | |
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| | | | | | | | |
| Lake Agnes | Osceola | Rebuild | 21.5 | Before '08 | Jun, 2012 | OUC/TEC * | $64.0 |
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| | Total miles | Rebuild | 76.2 | | | | |
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**AND**
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# Review of 2006 Ten-Year Site Plans
## for Florida's Electric Utilities

Florida Public Service Commission
Tallahassee, Florida
December 2006

# 4. TRANSMISSION

While generating units supply the energy needs of all Floridians, the transmission system is the backbone that delivers the energy to end users. Utilities must coordinate their individual generation and transmission plans to ensure that needed capacity can be moved from power plant sites to load centers throughout the state. The Commission has broad authority under certain sections of Chapter 366, Florida Statutes, known as the Grid Bill, to require reliability within Florida's coordinated electric grid and to ensure the planning, development, and maintenance of adequate generation, transmission, and distribution facilities within the state. The Commission will continue to monitor coordinated planning efforts by Florida's utilities and, if necessary, will exercise its Grid Bill authority to ensure the adequacy and reliability of Florida's transmission system.

## PAST AND PRESENT ACTIONS

Prior to 1980, Peninsular Florida's transmission interconnections to the rest of the nation were limited, consisting of only a few 69 kV, 115 kV, and 230 kV ties at the Florida-Southern interface. These limited ties allowed Peninsular Florida's utilities to import a maximum of only 400 MW of capacity into the region. Practically speaking, Peninsular Florida was an "electrical island," a region susceptible to disturbances when large generating units such as nuclear units experienced forced, unplanned outages. These outages often caused Peninsular Florida's loads to exceed generation available in the region, which in turn increased the flow of electricity over the limited Florida-Southern interface. Such a scenario frequently caused Peninsular Florida to disconnect from the rest of the nation, further aggravating the problem in the state and increasing the magnitude of customer blackouts.

In response to reliability concerns caused by limitations of the Florida-Southern interface, the Commission worked with Peninsular Florida's utilities to evaluate the feasibility and cost of strengthening transmission interties between the regions. From these evaluations, FPL and JEA agreed to construct two parallel 500 kV transmission lines connecting Peninsular Florida with the Southern Company. Completed in 1982, the new 500 kV lines increased Peninsular Florida's maximum import capability to its present level of 3,600 MW. The intertie supports capacity exports of as much as 2,600 MW out of the region. The import capability normally represents approximately 7.5% of Peninsular Florida's peak demand for winter 2006.

The two 500 kV lines, along with additions to the internal Florida and Southern transmission systems, strengthen the Florida-Southern interface, reduce the incidence of separation, and allow the Florida systems to import significant amounts of low-cost coal energy. In addition, the FCG Operating Committee monitors imports on a real-time basis and determines the hour-by-hour safe import levels. Under these limits, Peninsular Florida should not separate from the Southern Company upon loss of the single largest generating unit or any single transmission line or transformer.

In the early 1990s, FPL and PEF performed studies to determine the cost-effectiveness of constructing a third 500 kV transmission line to increase the import capability of the Florida-Southern interface. However, Federal Energy Regulatory Commission (FERC) wholesale pricing policies and changing economics caused the project to be abandoned. Siting of new transmission facilities has become controversial nationwide, and right-of-way has grown more expensive to purchase. Despite these obstacles, Florida's utilities have added substantial amounts of transmission at 230 kV and lower

levels within the state over the years. Given the obstacles to obtaining additional transmission from outside the state, Florida's utilities must continue to seek out self-sustaining solutions to meet the ever growing demand for electricity in the state.

## RELIABILITY STANDARDS

Nationwide, electric utilities plan their bulk power systems to comply with NERC and regional reliability standards. NERC's mission is to ensure that the bulk electric system in North America is reliable, adequate and secure. Since its formation in 1968, NERC operated successfully as a self-regulatory organization, and the electric industry voluntarily complied with NERC reliability standards. However, changes in the electric industry have rendered the voluntary compliance system no longer adequate. In response to these changes, Congress required the FERC to develop a new mandatory system of reliability standards and compliance. The Energy Policy Act of 2005 authorized the creation of an electric reliability organization (ERO) with the statutory authority to enforce compliance with reliability standards among all market participants. NERC received certification as the ERO from the FERC in July 2006.

NERC works with all stakeholder segments of the electric industry, including electricity users, to develop standards for the reliable planning and operation of the bulk power systems. Fundamentally, a power system should always operate in such a way that no credible contingency could trigger cascading outages or another form of instability. Reliability standards are generally applied as follows:

- Under a single-contingency criterion, a utility's transmission system experiences no equipment overloads, voltage violations or instability following a contingency outage of the single most crucial element, whether that piece of equipment is a generator, a transmission line, or a transformer. The N-1 criterion is generally the minimum reliability standard at which electric utilities plan their bulk power systems.
- Under a multiple-contingency criterion, a utility's transmission system must withstand the simultaneous failure of two or more elements with a controlled loss of load and no cascading outages which affect neighboring utilities. The transmission system must subsequently be able to adjust such that that all elements operate within their emergency ratings for the duration of the outage.

In response to Congressional actions to require mandatory reliability standards, which were supported by the Commission, the FRCC has implemented a compliance program that will monitor and enforce compliance with NERC and FRCC reliability standards. The program relies on self-assessment, periodic reporting, and on-site audits to ensure compliance. In administering the compliance program, the FRCC works closely with all owners, operators and users of the state's bulk electric system. The Commission staff attends FRCC meetings and maintains an open dialog with the FRCC on reliability matters affecting the state. The Commission will continue to work closely with the FRCC, NERC, and FERC to ensure the adequacy and reliability of Florida's electric grid.

## FRCC TRANSMISSION PLANNING PROCESS

One of the benefits attributed to the formation of a regional transmission organization (RTO) is centralized, coordinated transmission planning. In April 2006, the Commission closed a lengthy investigation into the prudence of forming an RTO, known as GridFlorida, because it did not appear to be cost-effective. The Commission directed Peninsular Florida's utilities to coordinate their transmission planning activities through the FRCC in an effort to capture some benefits of an RTO. The FRCC's transmission planning process is expected to yield a more complete transmission expansion plan from a peninsular perspective. The process will ensure that the reliability standards and criteria established by the NERC and the FRCC are met, and will utilize the specific design, operating, and planning criteria used by Peninsular Florida transmission owners. The Commission staff has actively participated in the FRCC's meetings on transmission planning. The Commission will continue to monitor coordinated planning efforts by Florida's utilities and, if necessary, will exercise its Grid Bill authority to ensure the adequacy and reliability of Florida's transmission system.

Through the FRCC's coordinated transmission planning process, Peninsular Florida's utilities recently completed a long-range transmission study for the 2005-2014 period. The long-range transmission study is a single-contingency assessment of Peninsular Florida's transmission system to ensure that it experiences no equipment overloads, voltage violations, or instability at peak demand conditions following the loss of a single transmission line, generating unit, or transformer. The process begins with the consolidation of the long-term transmission plans of all Peninsular Florida transmission owners. All transmission facilities 69 kV and above are included. The first five years of the study are a detailed evaluation and analysis of these independently developed transmission plans, while the second five years are a generalized, long-term evaluation due to the many uncertainties occurring in the latter years of the planning horizon. The FRCC normally begins its annual transmission planning studies in June of each year and completes them by March of the following year. A 2006 update of the recently completed study, comprising new data for already identified critical congestion areas, is scheduled for completion by March 2007.

The FRCC also performs sensitivity studies to test the robustness of Peninsular Florida's transmission system under various conditions. Examples of sensitivities studied are as follows:

- Weather extremes for summer and winter periods;
- Different load levels (e.g., 100%, 80%, 60%, 40%) and/or seasons of the year;
- Various generation dispatches that will test or stress the transmission system;
- Reactive supply and demand assessment (generator reactive limits, power factor); and,
- Other scenarios or system conditions, such as stability analysis.

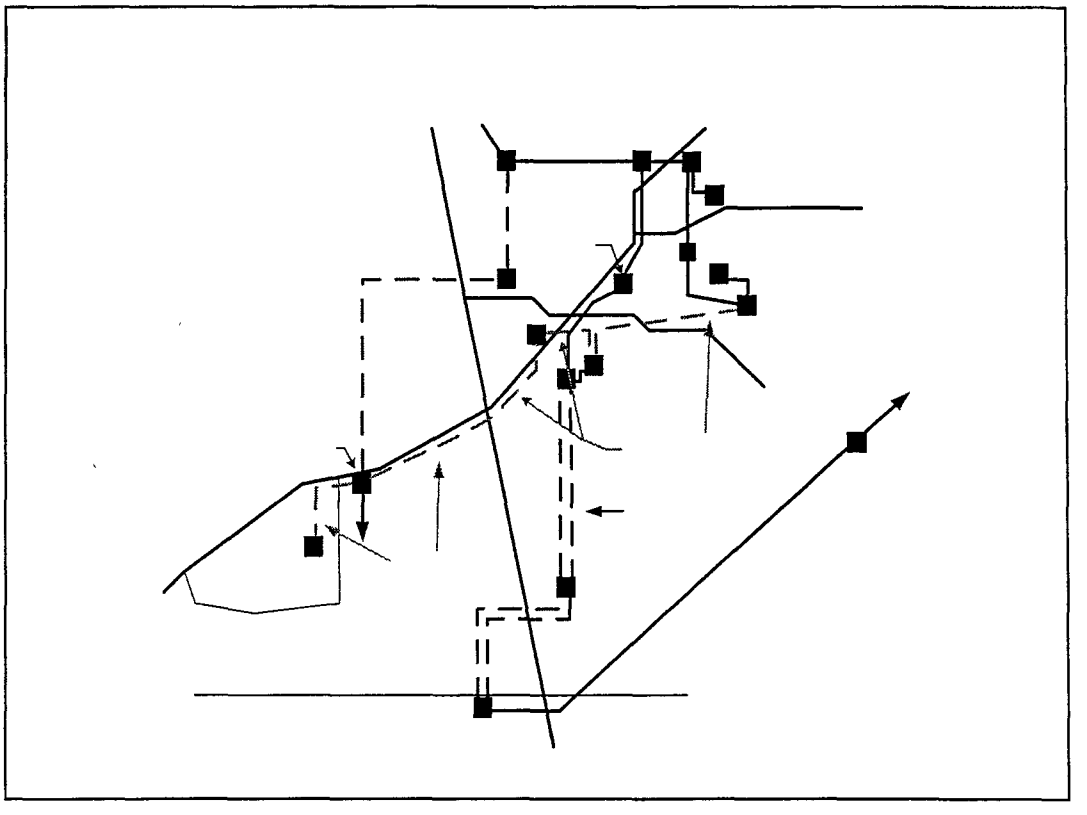
Consistent with the FRCC transmission planning process, these sensitivity studies will not necessarily call for the construction of transmission facilities identified in the studies. However, these sensitivities will provide insight into how robust the planned transmission system is expected to be. The FRCC plans to complete the sensitivity studies by the spring of 2007 and forward the results of these studies to the Commission.

# STUDIES OF REGIONAL TRANSMISSION CONSTRAINTS

## Florida Central Coordinated Study

Utilities in central Florida have not added enough transmission capacity in the region in recent years to keep pace with sustained customer load growth in the Greater Orlando area. The result is transmission congestion that prevents the full utilization of generating capacity in the Polk County region. At the urging of the Commission, the FRCC recently completed a major planning assessment known as the *Florida Central Coordinated Study*. The assessment identified an immediate need for additional transmission transfer capability along the Interstate 4 corridor, to move electricity generated in the Polk county region to load centers in the Greater Orlando area. The region is shown in Figure 9. The need for additional transmission transfer capability, which cannot be met until 2008 at the earliest, is further exacerbated in 2011 when additional generating capability in the Polk County area is scheduled to enter service.

**Figure 9: Florida Central Coordinated Study – Region**



The *Florida Central Coordinated Study* identified approximately $277 million in transmission projects that would address future needs in the region. Eight of these projects are expected to be needed before 2008 but not completed until 2009 or later. Permitting activities, as well as construction activities in active transmission corridors, are expected to cause all projects to be completed by 2011. Therefore, the region's utilities anticipate continuing the use of operational strategies such as uneconomic dispatch, voltage reduction, and line switching to mitigate contingency overloads. The Commission believes that operational strategies are essential to the operation of a

transmission system under contingencies, but such actions are not appropriate to address transmission needs known through planning studies. Uneconomic dispatch results in higher fuel costs that are borne by ratepayers through higher bills.

FPL, FMPA, the Kissimmee Utility Authority (KUA)[2], OUC, PEF, and TECO are responsible for the projects identified in the *Florida Central Coordinated Study*. These projects are listed in Table 2. The proposed Lake Agnes - Gifford line is the only project expected to require certification under the TLSA.

**Table 2: Florida Central Coordinated Study – Needed Transmission Projects**

| LINE OWNER | TRANSMISSION LINE | PROJECT TYPE | LINE LENGTH (MILES) | NEEDED IN-SERVICE | PLANNED IN-SERVICE | EST. COST ($M) |
|---|---|---|---|---|---|---|
| PEF | West Lake Wales - Dundee #2 | New | 13.2 | Before 2008 | 6/2009 | 28.5 |
| PEF | Dundee - Intercession City #2 | New | 25.9 | Before 2008 | 6/2010 | 54.1 |
| PEF | West Lake Wales - Dundee #1 | Rebuild | 9.7 | Before 2008 | 6/2011 | 20.5 |
| PEF | Dundee - Intercession City #1 | Rebuild | 20.3 | Before 2008 | 6.2011 | 40.5 |
| PEF | Avalon - Gifford | New | 7.0 | Before 2008 | 6/2008 | 33 |
| FPL | Vandollah - Charlotte | Terminal | -- | 12/2008 | 12/2008 | 0.1 |
| FPL | Poinsett - Holopaw | Terminal | -- | 12/2008 | 12/2008 | 0.1 |
| TECO/PEF | LAKE AGNES - GIFFORD[3] | NEW | 32.4 | BEFORE 2008 | 6/2011 | 67.5 |
| OUC | McIntosh - Lake Agnes | Reconductor | 9.4 | Before 2008 | 6/2011 | 6.1 |
| FMPA/KUA | Cane Island - CI North Tap | Reconductor | 6.0 | 6/2011 | 6/2010 | 3.0 |
| OUC | CI North Tap - Taft | Reconductor | 11.2 | 6/2011 | 6/2010 | 7.3 |
| OUC/TECO | Lake Agnes - Osceola | Reconductor | 21.5 | Before 2008 | 6/2008 | 14.0 |
| OUC/TECO | Osceola - CI North Tap | Reconductor | 4.1 | 6/2011 | 6/2009 | 2.7 |
| | | | | | TOTAL COST | 277.4 |

The Commission urges Peninsular Florida's utilities to continue working together through the FRCC to identify and address all reliability issues caused by transmission system limitations before operational strategies are needed. The Commission commends the FRCC for its efforts in coordinating the transmission plans of Peninsular Florida's utilities. However, the *Florida Central Coordinated Study* identified two areas in which the FRCC can improve its process: (1) formation of a cost allocation methodology for new transmission projects and (2) establishment of a uniform process for queuing transmission service requests made to utilities. The Commission will continue to monitor coordinated planning efforts by Florida's utilities and, if necessary, will exercise its Grid Bill authority to ensure the adequacy of Florida's transmission system.

[2] KUA is an all-requirements member of FMPA. KUA does not file a *Ten-Year Site Plan*.
[3] Lake Agnes - Gifford line will require certification under the TLSA.

# *2006 Regional Load & Resource Plan*

*July 2006*


FLORIDA RELIABILITY COORDINATING COUNCIL

# FLORIDA RELIABILITY COORDINATING COUNCIL
# 2006
# REGIONAL LOAD & RESOURCE PLAN
# INDEX

# FLORIDA RELIABILITY COORDINATING COUNCIL

# 2006

# REGIONAL LOAD & RESOURCE PLAN

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL
## HISTORY AND FORECAST

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SUMMER PEAK DEMAND (MW) | | | | | WINTER PEAK DEMAND (MW) | | | | ENERGY | | |
| YEAR | ACTUAL PEAK DEMAND (MW) | | | | YEAR | ACTUAL PEAK DEMAND (MW) | | | | YEAR | NET ENERGY FOR LOAD (GWH) | LOAD FACTOR (%) |
| 1996 | 32,315 | | | | 1996 / 97 | 34,762 | | | | 1996 | 173,327 | 57.26% |
| 1997 | 32,924 | | | | 1997 / 98 | 30,932 | | | | 1997 | 175,534 | 57.64% |
| 1998 | 37,153 | | | | 1998 / 99 | 35,907 | | | | 1998 | 187,868 | 57.72% |
| 1999 | 37,493 | | | | 1999 / 00 | 36,394 | | | | 1999 | 188,598 | 57.42% |
| 2000 | 37,379 | | | | 2000 / 01 | 40,258 | | | | 2000 | 196,893 | 60.13% |
| 2001 | 38,670 | | | | 2001 / 02 | 39,675 | | | | 2001 | 201,251 | 57.07% |
| 2002 | 39,903 | | | | 2002 / 03 | 44,472 | | | | 2002 | 210,649 | 60.26% |
| 2003 | 40,417 | | | | 2003 / 04 | 35,564 | | | | 2003 | 219,342 | 56.30% |
| 2004 | 42,172 | | | | 2004 / 05 | 41,090 | | | | 2004 | 219,914 | 59.53% |
| 2005 | 45,950 | | | | 2005 / 06 | 42,493 | | | | 2005 | 226,544 | 56.28% |

| YEAR | TOTAL PEAK DEMAND (MW) | INTER-RUPTIBLE LOAD (MW) | LOAD MANAGE-MENT (MW) | FIRM PEAK DEMAND (MW) | YEAR | TOTAL PEAK DEMAND (MW) | INTER-RUPTIBLE LOAD (MW) | LOAD MANAGE-MENT (MW) | FIRM PEAK DEMAND (MW) | YEAR | NET ENERGY FOR LOAD (GWH) | LOAD FACTOR (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2006 | 45,520 | 857 | 1,902 | 42,761 | 2006 / 07 | 48,296 | 869 | 2,635 | 44,792 | 2006 | 232,561 | 58.32% |
| 2007 | 46,725 | 875 | 2,072 | 43,778 | 2007 / 08 | 49,464 | 890 | 2,669 | 45,905 | 2007 | 239,897 | 56.70% |
| 2008 | 48,030 | 884 | 2,117 | 45,029 | 2008 / 09 | 50,732 | 888 | 2,717 | 47,127 | 2008 | 249,200 | 57.51% |
| 2009 | 49,233 | 884 | 2,139 | 46,210 | 2009 / 10 | 51,678 | 862 | 2,728 | 48,088 | 2009 | 257,088 | 57.85% |
| 2010 | 50,221 | 855 | 2,151 | 47,215 | 2010 / 11 | 52,869 | 867 | 2,745 | 49,257 | 2010 | 263,792 | 58.27% |
| 2011 | 51,343 | 859 | 2,166 | 48,318 | 2011 / 12 | 53,923 | 871 | 2,764 | 50,288 | 2011 | 270,282 | 58.36% |
| 2012 | 52,490 | 863 | 2,185 | 49,442 | 2012 / 13 | 55,086 | 874 | 2,792 | 51,420 | 2012 | 277,050 | 58.65% |
| 2013 | 53,686 | 867 | 2,208 | 50,611 | 2013 / 14 | 56,271 | 878 | 2,822 | 52,571 | 2013 | 283,752 | 58.80% |
| 2014 | 54,830 | 871 | 2,233 | 51,726 | 2014 / 15 | 57,674 | 882 | 2,852 | 53,940 | 2014 | 290,591 | 58.95% |
| 2015 | 56,130 | 875 | 2,237 | 53,018 | 2015 / 16 | 59,162 | 886 | 2,844 | 55,432 | 2015 | 297,561 | 58.90% |

NOTE: FORECASTED SUMMER AND WINTER DEMANDS ARE NON-COINCIDENT.

**2006**
**LOAD AND RESOURCE PLAN**
**FLORIDA RELIABILITY COORDINATING COUNCIL**

**FRCC Form 4.0**
**HISTORY AND FORECAST OF ENERGY CONSUMPTION AND NUMBER OF CUSTOMERS BY CUSTOMER CLASS**
**AS OF JANUARY 1, 2006**

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RURAL & RESIDENTIAL | | | COMMERCIAL | | | INDUSTRIAL | | | | | | | | | |
| | YEAR | GWH | AVERAGE NO. OF CUSTOMERS | AVG. KWH CONSUMPTION PER CUST. | GWH | AVERAGE NO. OF CUSTOMERS | AVG. KWH CONSUMPTION PER CUST. | GWH | AVERAGE NO. OF CUSTOMERS | AVG. KWH CONSUMPTION PER CUST. | STREET & HIGHWAY LIGHTING GWH | OTHER SALES GWH | TOTAL SALES GWH | WHOLESALE PURCHASES FOR RESALE GWH | WHOLESALE SALES FOR RESALE GWH | UTILITY USE & LOSSES GWH | NET ENERGY FOR LOAD GWH |
| | 1996 | 81,047 | 6,066,709 | 13,359 | 53,086 | 720,371 | 73,693 | 18,338 | 25,523 | 718,489 | 600 | 4,278 | 157,349 | 0 | 0 | 15,978 | 173,327 |
| | 1997 | 80,727 | 6,185,747 | 13,050 | 55,643 | 737,205 | 75,478 | 18,707 | 25,936 | 721,275 | 620 | 4,536 | 160,233 | 0 | 0 | 15,301 | 175,534 |
| | 1998 | 88,200 | 6,309,119 | 13,980 | 59,052 | 755,690 | 78,143 | 19,560 | 26,994 | 724,605 | 614 | 4,603 | 172,029 | 0 | 0 | 15,839 | 187,868 |
| | 1999 | 87,915 | 6,711,345 | 13,099 | 62,799 | 812,718 | 77,270 | 19,286 | 31,278 | 616,600 | 796 | 4,324 | 175,120 | 0 | 0 | 13,478 | 188,598 |
| | 2000 | 92,468 | 6,727,796 | 13,744 | 65,565 | 821,876 | 79,775 | 19,418 | 28,286 | 686,488 | 781 | 4,521 | 182,753 | 0 | 6,067 | 20,207 | 196,893 |
| | 2001 | 95,049 | 6,895,042 | 13,785 | 68,199 | 846,796 | 80,538 | 19,603 | 27,915 | 702,239 | 752 | 4,313 | 187,916 | 0 | 7,425 | 20,760 | 201,251 |
| | 2002 | 101,307 | 7,051,608 | 14,367 | 70,261 | 864,098 | 81,311 | 19,986 | 28,340 | 705,222 | 768 | 4,503 | 196,825 | 0 | 6,743 | 20,567 | 210,649 |
| | 2003 | 105,720 | 7,224,624 | 14,633 | 72,031 | 882,244 | 81,645 | 20,321 | 30,792 | 659,944 | 775 | 4,775 | 203,622 | 0 | 7,425 | 23,145 | 219,342 |
| | 2004 | 105,151 | 7,422,229 | 14,167 | 72,696 | 903,916 | 80,423 | 21,074 | 33,710 | 625,156 | 773 | 4,898 | 204,592 | 0 | 8,231 | 23,553 | 219,914 |
| | 2005 | 108,836 | 7,611,707 | 14,299 | 75,073 | 928,969 | 80,813 | 21,270 | 35,893 | 592,595 | 790 | 5,099 | 211,068 | 0 | 9,290 | 24,766 | 226,544 |
| 96-2005 | % AAGR | 3.33% | | | 3.93% | | | 1.66% | | | | | | | | | 3.02% |
| | 2006 | 112,655 | 7,785,602 | 14,470 | 76,410 | 950,870 | 80,358 | 21,533 | 37,299 | 577,308 | 852 | 5,155 | 216,605 | 0 | 7,347 | 23,303 | 232,561 |
| | 2007 | 115,941 | 7,952,155 | 14,580 | 79,681 | 972,411 | 81,942 | 21,970 | 37,080 | 592,503 | 879 | 5,319 | 223,790 | 0 | 7,718 | 23,825 | 239,897 |
| | 2008 | 120,011 | 8,116,388 | 14,786 | 83,456 | 993,266 | 84,022 | 22,541 | 36,910 | 610,702 | 909 | 5,479 | 232,396 | 0 | 6,751 | 23,555 | 249,200 |
| | 2009 | 123,901 | 8,282,006 | 14,960 | 86,583 | 1,014,486 | 85,347 | 22,961 | 36,891 | 622,401 | 937 | 5,639 | 240,021 | 0 | 6,708 | 23,775 | 257,088 |
| | 2010 | 127,323 | 8,416,168 | 15,128 | 89,169 | 1,029,295 | 86,631 | 23,135 | 37,007 | 625,152 | 963 | 5,791 | 246,381 | 0 | 7,390 | 24,801 | 263,792 |
| | 2011 | 130,598 | 8,573,459 | 15,233 | 91,540 | 1,048,643 | 87,294 | 23,515 | 37,464 | 627,669 | 984 | 5,947 | 252,584 | 0 | 7,274 | 24,972 | 270,282 |
| | 2012 | 133,972 | 8,729,269 | 15,347 | 94,023 | 1,067,715 | 88,060 | 23,913 | 37,849 | 631,800 | 1,006 | 6,103 | 259,017 | 0 | 7,358 | 25,391 | 277,050 |
| | 2013 | 137,401 | 8,884,769 | 15,465 | 96,572 | 1,086,586 | 88,877 | 24,306 | 38,395 | 633,051 | 1,029 | 6,258 | 265,566 | 0 | 7,430 | 25,616 | 283,752 |
| | 2014 | 140,745 | 9,040,649 | 15,568 | 99,276 | 1,105,384 | 89,811 | 24,699 | 39,024 | 632,918 | 1,053 | 6,417 | 272,190 | 0 | 7,441 | 25,842 | 290,591 |
| | 2015 | 144,062 | 9,197,420 | 15,663 | 102,041 | 1,124,126 | 90,774 | 25,094 | 39,712 | 631,900 | 1,076 | 6,582 | 278,855 | 0 | 7,552 | 26,258 | 297,561 |
| 06-2015 | % AAGR | 2.77% | | | 3.27% | | | 1.72% | | | | | | | | | 2.78% |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 5.0

## HISTORY AND FORECAST OF SUMMER PEAK DEMAND (MW)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|
| | [(3)+(4)+(5)+(6)+(7)+(8)+(9)] | | | | | | | |
| | | DEMAND REDUCTION | | | | | | SUMMER |
| | SUMMER | | RESIDENTIAL | COMM./IND. | QF LOAD | CUMULATIVE | | NET FIRM |
| | TOTAL | INTERRUPTIBLE | LOAD | LOAD | SERVED BY QF | CONSERVATION | | PEAK |
| YEAR | DEMAND | LOAD | MANAGEMENT | MANAGEMENT | GENERATION | RESIDENTIAL | COMM./IND. | DEMAND |
| 2004 | 44,519 | 61 | 77 | 2 | 243 | 1,126 | 838 | 42,172 |
| 2005 | 48,634 | 254 | 184 | 8 | 169 | 1,194 | 875 | 45,950 |
| 2006 | 48,071 | 857 | 1,223 | 679 | 327 | 1,296 | 928 | 42,761 |
| 2007 | 49,371 | 875 | 1,322 | 750 | 335 | 1,349 | 962 | 43,778 |
| 2008 | 50,761 | 884 | 1,329 | 788 | 335 | 1,405 | 991 | 45,029 |
| 2009 | 52,043 | 884 | 1,330 | 809 | 335 | 1,463 | 1,012 | 46,210 |
| 2010 | 53,122 | 855 | 1,328 | 823 | 350 | 1,524 | 1,027 | 47,215 |
| 2011 | 54,333 | 859 | 1,330 | 836 | 361 | 1,587 | 1,042 | 48,318 |
| 2012 | 55,565 | 863 | 1,335 | 850 | 367 | 1,652 | 1,056 | 49,442 |
| 2013 | 56,841 | 867 | 1,344 | 864 | 367 | 1,718 | 1,070 | 50,611 |
| 2014 | 58,066 | 871 | 1,356 | 877 | 367 | 1,786 | 1,083 | 51,726 |
| 2015 | 59,447 | 875 | 1,355 | 882 | 367 | 1,854 | 1,096 | 53,018 |
| | | | | | | | CAAGR (%): | 2.42% |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 6.0
## HISTORY AND FORECAST OF WINTER PEAK DEMAND (MW)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|
| | [(3)+(4)+(5)+(6)+(7)+(8)+(9)] | | | | | | | |
| | | DEMAND REDUCTION | | | | | | |
| YEAR | WINTER TOTAL DEMAND | INTERRUPTIBLE LOAD | RESIDENTIAL LOAD MANAGEMENT | COMM./IND. LOAD MANAGEMENT | QF LOAD SERVED BY QF GENERATION | CUMULATIVE CONSERVATION RESIDENTIAL | CUMULATIVE CONSERVATION COMM./IND. | WINTER NET FIRM PEAK DEMAND |
| 2004/05 | 43,321 | 66 | 91 | 0 | 180 | 1,493 | 401 | 41,090 |
| 2005/06 | 44,764 | 60 | 104 | 0 | 144 | 1,553 | 410 | 42,493 |
| 2006/07 | 50,681 | 869 | 1,981 | 654 | 312 | 1,641 | 432 | 44,792 |
| 2007/08 | 51,918 | 890 | 1,989 | 680 | 312 | 1,699 | 443 | 45,905 |
| 2008/09 | 53,256 | 888 | 2,010 | 707 | 312 | 1,757 | 455 | 47,127 |
| 2009/10 | 54,283 | 862 | 2,012 | 716 | 327 | 1,816 | 462 | 48,088 |
| 2010/11 | 55,556 | 867 | 2,020 | 725 | 338 | 1,879 | 470 | 49,257 |
| 2011/12 | 56,691 | 871 | 2,031 | 733 | 344 | 1,946 | 478 | 50,288 |
| 2012/13 | 57,930 | 874 | 2,049 | 743 | 344 | 2,013 | 487 | 51,420 |
| 2013/14 | 59,188 | 878 | 2,070 | 752 | 344 | 2,078 | 495 | 52,571 |
| 2014/15 | 60,663 | 882 | 2,093 | 759 | 344 | 2,142 | 503 | 53,940 |
| 2015/16 | 62,223 | 886 | 2,079 | 765 | 344 | 2,206 | 511 | 55,432 |
| | | | | | | | **CAAGR (%):** | **2.40%** |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 7.0
## HISTORY AND FORECAST OF ANNUAL NET ENERGY FOR LOAD (GWH)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|
| | [(3)+(4)+(5)+(6)+(7)+(8)+(9)] | | | | | | | |
| | | DEMAND REDUCTION | | | | | | |
| YEAR | TOTAL ENERGY FOR LOAD | INTERRUPTIBLE LOAD | RESIDENTIAL LOAD MANAGEMENT | COMM./IND. LOAD MANAGEMENT | QF LOAD SERVED BY QF GENERATION | CUMULATIVE CONSERVATION RESIDENTIAL | CUMULATIVE CONSERVATION COMM./IND. | NET ENERGY FOR LOAD |
| 2004 | 227,635 | 1 | 2 | 0 | 2,342 | 3,023 | 2,353 | 219,914 |
| 2005 | 234,823 | 1 | 12 | 7 | 2,632 | 3,164 | 2,463 | 226,544 |
| 2006 | 241,012 | 0 | 2 | 0 | 2,553 | 3,340 | 2,556 | 232,561 |
| 2007 | 248,608 | 0 | 2 | 0 | 2,623 | 3,452 | 2,634 | 239,897 |
| 2008 | 258,076 | 0 | 2 | 0 | 2,624 | 3,569 | 2,681 | 249,200 |
| 2009 | 266,120 | 0 | 2 | 0 | 2,623 | 3,692 | 2,715 | 257,088 |
| 2010 | 273,104 | 0 | 3 | 0 | 2,756 | 3,820 | 2,733 | 263,792 |
| 2011 | 279,848 | 0 | 3 | 0 | 2,856 | 3,956 | 2,751 | 270,282 |
| 2012 | 286,823 | 0 | 3 | 0 | 2,907 | 4,094 | 2,769 | 277,050 |
| 2013 | 293,683 | 0 | 3 | 0 | 2,906 | 4,235 | 2,787 | 283,752 |
| 2014 | 300,683 | 0 | 3 | 0 | 2,906 | 4,378 | 2,805 | 290,591 |
| 2015 | 307,812 | 0 | 3 | 0 | 2,906 | 4,520 | 2,822 | 297,561 |
| | | | | | | | CAAGR (%): | 2.78% |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL

## SUMMARY OF INTERRUPTIBLE LOAD AND LOAD MANAGEMENT (MW)
## 2006 THROUGH 2015

## SUMMER

| YEAR | FKE | | | FPL | | JEA | LAK | NSB | OUC | PEF | | | SEC | | TEC | | | FRCC TOTALS | | | FRCC TOTAL INT + LM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | INT | RES LM | COM LM | RES LM | COM LM | INT | INT | RES LM | INT | INT | RES LM | COM LM | INT | RES LM | INT | RES LM | COM LM | INT | RES LM | COM LM | |
| 2006 | 2 | 3 | 2 | 799 | 619 | 175 | 0 | 5 | 0 | 419 | 228 | 39 | 97 | 95 | 164 | 93 | 19 | 857 | 1,223 | 679 | 2,759 |
| 2007 | 2 | 3 | 2 | 926 | 688 | 177 | 0 | 5 | 0 | 431 | 202 | 40 | 97 | 95 | 168 | 91 | 20 | 875 | 1,322 | 750 | 2,947 |
| 2008 | 2 | 3 | 3 | 962 | 724 | 180 | 0 | 5 | 0 | 437 | 179 | 41 | 97 | 95 | 168 | 85 | 20 | 884 | 1,329 | 788 | 3,001 |
| 2009 | 3 | 3 | 3 | 984 | 744 | 183 | 0 | 6 | 0 | 433 | 158 | 42 | 97 | 95 | 168 | 84 | 20 | 884 | 1,330 | 809 | 3,023 |
| 2010 | 3 | 3 | 3 | 1,001 | 756 | 185 | 0 | 6 | 0 | 424 | 140 | 43 | 97 | 95 | 146 | 83 | 21 | 855 | 1,328 | 823 | 3,006 |
| 2011 | 3 | 3 | 3 | 1,020 | 767 | 188 | 0 | 6 | 0 | 425 | 124 | 45 | 97 | 95 | 146 | 82 | 21 | 859 | 1,330 | 836 | 3,025 |
| 2012 | 3 | 3 | 3 | 1,040 | 779 | 191 | 0 | 6 | 0 | 426 | 109 | 46 | 97 | 95 | 146 | 82 | 22 | 863 | 1,335 | 850 | 3,048 |
| 2013 | 3 | 3 | 3 | 1,062 | 791 | 194 | 0 | 6 | 0 | 427 | 97 | 47 | 97 | 95 | 146 | 81 | 23 | 867 | 1,344 | 864 | 3,075 |
| 2014 | 3 | 3 | 3 | 1,086 | 803 | 197 | 0 | 6 | 0 | 428 | 86 | 48 | 97 | 95 | 146 | 80 | 23 | 871 | 1,356 | 877 | 3,104 |
| 2015 | 3 | 3 | 3 | 1,095 | 807 | 200 | 0 | 7 | 0 | 429 | 76 | 48 | 97 | 95 | 146 | 79 | 24 | 875 | 1,355 | 882 | 3,112 |

## WINTER

| YEAR | FKE | | | FPL | | JEA | LAK | NSB | OUC | PEF | | | SEC | | TEC | | | FRCC TOTALS | | | FRCC TOTAL INT + LM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | INT | RES LM | COM LM | RES LM | COM LM | INT | INT | RES LM | INT | INT | RES LM | COM LM | INT | RES LM | INT | RES LM | COM LM | INT | RES LM | COM LM | |
| 2006/07 | 0 | 0 | 0 | 964 | 605 | 175 | 0 | 5 | 0 | 426 | 671 | 30 | 97 | 140 | 171 | 201 | 19 | 869 | 1,981 | 654 | 3,504 |
| 2007/08 | 0 | 0 | 0 | 1,001 | 631 | 178 | 0 | 5 | 0 | 444 | 649 | 31 | 97 | 140 | 171 | 194 | 18 | 890 | 1,989 | 680 | 3,559 |
| 2008/09 | 0 | 0 | 0 | 1,042 | 656 | 180 | 0 | 6 | 0 | 440 | 631 | 33 | 97 | 140 | 171 | 191 | 18 | 888 | 2,010 | 707 | 3,605 |
| 2009/10 | 0 | 0 | 0 | 1,062 | 663 | 183 | 0 | 6 | 0 | 432 | 615 | 35 | 97 | 140 | 150 | 189 | 18 | 862 | 2,012 | 716 | 3,590 |
| 2010/11 | 0 | 0 | 0 | 1,084 | 669 | 186 | 0 | 6 | 0 | 434 | 603 | 37 | 97 | 140 | 150 | 187 | 19 | 867 | 2,020 | 725 | 3,612 |
| 2011/12 | 0 | 0 | 0 | 1,107 | 676 | 189 | 0 | 6 | 0 | 435 | 593 | 38 | 97 | 140 | 150 | 185 | 19 | 871 | 2,031 | 733 | 3,635 |
| 2012/13 | 0 | 0 | 0 | 1,133 | 683 | 192 | 0 | 7 | 0 | 436 | 586 | 40 | 97 | 140 | 149 | 183 | 20 | 874 | 2,049 | 743 | 3,666 |
| 2013/14 | 0 | 0 | 0 | 1,160 | 690 | 194 | 0 | 7 | 0 | 437 | 581 | 42 | 97 | 140 | 150 | 182 | 20 | 878 | 2,070 | 752 | 3,700 |
| 2014/15 | 0 | 0 | 0 | 1,189 | 696 | 197 | 0 | 7 | 0 | 438 | 577 | 42 | 97 | 140 | 150 | 180 | 21 | 882 | 2,093 | 759 | 3,734 |
| 2015/16 | 0 | 0 | 0 | 1,189 | 696 | 200 | 0 | 8 | 0 | 439 | 564 | 48 | 97 | 140 | 150 | 178 | 21 | 886 | 2,079 | 765 | 3,730 |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL
## SUMMARY OF EXISTING CAPACITY
## AS OF JANUARY 1, 2006

| | NET CAPABILITY (MW) | |
|---|---|---|
| **UTILITY** | **SUMMER** | **WINTER** |
| FLORIDA KEYS ELECTRIC COOPERATIVE ASSOCIATION INC | 21 | 21 |
| FLORIDA MUNICIPAL POWER AGENCY | 636 | 667 |
| FLORIDA POWER & LIGHT COMPANY | 20,777 | 22,099 |
| FORT PIERCE UTILITIES AUTHORITIES | 119 | 119 |
| GAINESVILLE REGIONAL UTILITIES | 612 | 632 |
| HOMESTEAD CITY OF | 53 | 53 |
| JEA | 3,387 | 3,552 |
| KEY WEST UTILITY BOARD | 52 | 52 |
| KISSIMMEE UTILITY AUTHORITY | 294 | 316 |
| LAKE WORTH UTILITIES CITY OF | 94 | 102 |
| LAKELAND CITY OF | 913 | 995 |
| NEW SMYRNA BEACH UTILITIES COMMISSION OF | 66 | 70 |
| OCALA ELECTRIC UTILITY | 11 | 11 |
| ORLANDO UTILITIES COMMISSION | 1,199 | 1,257 |
| PROGRESS ENERGY FLORIDA | 8,842 | 9,760 |
| REEDY CREEK IMPROVEMENT DISTRICT | 43 | 44 |
| SEMINOLE ELECTRIC COOPERATIVE INC | 1,819 | 1,886 |
| ST CLOUD CITY OF | 21 | 21 |
| TALLAHASSEE CITY OF | 744 | 795 |
| TAMPA ELECTRIC COMPANY | 4,071 | 4,383 |
| US CORPS OF ENGINEERS - MOBILE | 44 | 44 |
| VERO BEACH CITY OF | 150 | 155 |
| **TOTALS:** | | |
| FRCC EXISTING CAPACITY: | 43,966 | 47,033 |
| NON-UTILITY GENERATING FACILITIES (FIRM): | 1,992 | 2,064 |
| MERCHANT PLANT FACILITIES (FIRM): | 2,686 | 2,376 |
| **TOTAL FRCC EXISTING:** | **48,645** | **51,473** |

2006
LOAD AND RESOURCE PLAN
*FLORIDA RELIABILITY COORDINATING COUNCIL*
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| **FLORIDA KEYS ELECTRIC COOPERATIVE ASSOCIATION INC** | | | | | | | | | | | | | | | |
| MARATHON | 1 | MONROE | IC | DFO | TK | RFO | TK | 0 | 6 / 1988 | --- / --- | 2 | 2 | 2 | 2 | OP |
| MARATHON | 2 | MONROE | IC | DFO | TK | RFO | TK | 0 | 6 / 1988 | --- / --- | 2 | 2 | 2 | 2 | OP |
| MARATHON | 3 | MONROE | IC | DFO | TK | RFO | TK | 0 | 6 / 1955 | --- / --- | 2.5 | 2.5 | 2.5 | 2.5 | OP |
| MARATHON | 4 | MONROE | IC | DFO | TK | RFO | TK | 0 | 6 / 1957 | --- / --- | 2.5 | 2.5 | 2.5 | 2.5 | OP |
| MARATHON | 5 | MONROE | IC | DFO | TK | RFO | TK | 0 | 6 / 1959 | --- / --- | 2.5 | 2.5 | 2.5 | 2.5 | OS |
| MARATHON | 6 | MONROE | IC | DFO | TK | RFO | TK | 0 | 6 / 1973 | --- / --- | 2.5 | 2.5 | 2.5 | 2.5 | OP |
| MARATHON | 7 | MONROE | IC | DFO | TK | RFO | TK | 0 | 6 / 1973 | --- / --- | 2.5 | 2.5 | 2.5 | 2.5 | OP |
| MARATHON | 8 | MONROE | IC | DFO | TK | RFO | TK | 0 | 1 / 1998 | --- / --- | 3.5 | 3.5 | 3.5 | 3.5 | OP |
| MARATHON | 9 | MONROE | IC | DFO | TK | RFO | TK | 0 | 1 / 2001 | --- / --- | 3.5 | 3.5 | 3.5 | 3.5 | OP |
| | | | | | | | | | | | FKE TOTAL: | | 21 | 21 | |
| **FLORIDA MUNICIPAL POWER AGENCY** | | | | | | | | | | | | | | | |
| CANE ISLAND (34/40) * | 1GT | OSCEOLA | GT | NG | PL | DFO | TK | 0 | 11 / 1994 | --- / --- | 17 | 15 | 17 | 15 | OP |
| CANE ISLAND (110/120) * | 2CT | OSCEOLA | CT | NG | PL | DFO | TK | 0 | 6 / 1995 | --- / --- | 35 | 40 | 35 | 40 | OP |
| CANE ISLAND (110/120) * | 2CW | OSCEOLA | CA | WH | NA | NA | NA | 0 | 6 / 1995 | --- / --- | 39 | 40 | 20 | 20 | OP |
| CANE ISLAND (244/267) * | 3CT | OSCEOLA | CT | NG | PL | DFO | TK | 0 | 1 / 2002 | --- / --- | 90.5 | 90.5 | 78 | 80 | OP |
| CANE ISLAND (244/267) * | 3CW | OSCEOLA | CA | WH | NA | NA | NA | 0 | 1 / 2002 | --- / --- | 49.3 | 49.3 | 45 | 45 | OP |
| INDIAN RIVER (76/96) * | A-B | BREVARD | GT | NG | PL | DFO | TK | 0 | 7 / 1989 | --- / --- | 28 | 36 | 28 | 36 | OP |
| INDIAN RIVER (218/256) * | C-D | BREVARD | GT | NG | PL | DFO | TK | 0 | 8 / 1992 | --- / --- | 45 | 52 | 44 | 52 | OP |
| ST. LUCIE (878/892) * | 2 | ST. LUCIE | ST | NUC | TK | --- | --- | 0 | 6 / 1983 | --- / --- | 74 | 75 | 74 | 75 | OP |
| STANTON (467/470) * | 1 | ORANGE | ST | BIT | RR | --- | --- | 0 | 7 / 1987 | --- / --- | 126 | 127 | 117 | 118 | OP |
| STANTON (469/469) * | 2 | ORANGE | ST | BIT | RR | --- | --- | 0 | 6 / 1996 | --- / --- | 133 | 133 | 127 | 127 | OP |
| STANTON (667/712) * | A | ORANGE | CT | NG | PL | DFO | TK | 3 | 10 / 2003 | --- / --- | 13 | 15 | 12 | 14 | OP |
| STANTON (667/712) * | A | ORANGE | CA | WH | NA | NA | NA | 0 | 10 / 2003 | --- / --- | 10 | 10 | 9 | 9 | OP |
| STOCK ISLAND | CT2 | MONROE | GT | DFO | WA | --- | --- | 0 | 9 / 1999 | --- / --- | 18 | 18 | 15 | 18 | OP |
| STOCK ISLAND | CT3 | MONROE | GT | DFO | WA | --- | --- | 0 | 9 / 1999 | --- / --- | 18 | 18 | 15 | 18 | OP |
| | | | | | | | | | | | FMPA TOTAL: | | 636 | 667 | |
| **FLORIDA POWER & LIGHT COMPANY** | | | | | | | | | | | | | | | |
| CAPE CANAVERAL | 1 | BREVARD | ST | RFO | WA | NG | PL | 0 | 4 / 1965 | --- / --- | 418 | 423 | 399 | 403 | OP |
| CAPE CANAVERAL | 2 | BREVARD | ST | RFO | WA | NG | PL | 0 | 4 / 1969 | --- / --- | 418 | 423 | 399 | 403 | OP |
| CUTLER | 5 | DADE | ST | NG | PL | --- | --- | 0 | 11 / 1954 | --- / --- | 68 | 70 | 65 | 67 | OP |
| CUTLER | 6 | DADE | ST | NG | PL | --- | --- | 0 | 7 / 1955 | --- / --- | 110 | 114 | 105 | 109 | OP |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL IN-SERVICE | EXPECTED RETIREMENT | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | MO. / YEAR | MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| FT. MYERS | 1 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 65 | 54 | 65 | OP |
| FT. MYERS | 2 | LEE | CA | NG | PL | NA | NA | 0 | 6 / 2002 | --- / --- | 1466 | 1637 | 1441 | 1610 | OP |
| FT. MYERS | 2 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 3 | LEE | CT | NG | PL | DFO | TK | 0 | 6 / 2001 | --- / --- | 326 | 380 | 326 | 380 | OP |
| FT. MYERS | 3 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 4 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 5 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 6 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 7 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 8 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 9 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 10 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 11 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| FT. MYERS | 12 | LEE | GT | DFO | WA | --- | --- | 0 | 5 / 1974 | --- / --- | 54 | 64 | 54 | 64 | OP |
| LAUDERDALE | 1 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 2 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 3 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 4 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 5 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 6 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 7 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 8 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 9 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 10 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 11 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 12 | BROWARD | GT | NG | PL | DFO | TK | 83 | 8 / 1970 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 13 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 14 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 15 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 16 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 43 | 35 | 43 | OP |
| LAUDERDALE | 17 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 18 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 19 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 20 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 21 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 22 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 23 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 24 | BROWARD | GT | NG | PL | DFO | TK | 77 | 8 / 1972 | --- / --- | 35 | 42 | 35 | 42 | OP |
| LAUDERDALE | 4GT1 | BROWARD | CT | NG | PL | DFO | TK | 4 | 5 / 1993 | --- / --- | | | | | OP |
| LAUDERDALE | 4GT2 | BROWARD | CT | NG | PL | DFO | TK | 4 | 5 / 1993 | --- / --- | | | | | OP |
| LAUDERDALE | ST4 | BROWARD | CA | NG | PL | DFO | PL | 0 | 10 / 1957 | --- / --- | 435 | 470 | 430 | 465 | OP |
| LAUDERDALE | 5GT1 | BROWARD | CT | NG | PL | DFO | TK | 4 | 6 / 1993 | --- / --- | | | | | OP |
| LAUDERDALE | 5GT2 | BROWARD | CT | NG | PL | DFO | TK | 4 | 6 / 1993 | --- / --- | | | | | OP |
| LAUDERDALE | ST5 | BROWARD | CA | NG | PL | --- | --- | 0 | 4 / 1958 | --- / --- | 434 | 469 | 429 | 464 | OP |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| MANATEE | 1 | MANATEE | ST | RFO | WA | NG | PL | 0 | 10 / 1976 | --- / --- | 838 | 846 | 810 | 817 | OP |
| MANATEE | 2 | MANATEE | ST | RFO | WA | NG | PL | 0 | 12 / 1977 | --- / --- | 838 | 846 | 810 | 817 | OP |
| MANATEE | 3 | MANATEE | CC | NG | PL | --- | --- | 0 | 6 / 2005 | --- / --- | 1123 | 1212 | 1107 | 1197 | OP |
| MARTIN | 1 | MARTIN | ST | RFO | PL | NG | PL | 182 | 12 / 1980 | --- / --- | 858 | 860 | 828 | 830 | OP |
| MARTIN | 2 | MARTIN | ST | RFO | PL | NG | PL | 182 | 6 / 1981 | --- / --- | 844 | 859 | 815 | 829 | OP |
| MARTIN | 8 | MARTIN | CC | NG | PL | DFO | TK | 0 | 6 / 2005 | --- / --- | 1130 | 1219 | 1107 | 1197 | OP |
| MARTIN | 3GT1 | MARTIN | CT | NG | PL | DFO | TK | 0 | 2 / 1994 | --- / --- | | | | | OP |
| MARTIN | 3GT2 | MARTIN | CT | NG | PL | DFO | TK | 0 | 2 / 1994 | --- / --- | | | | | OP |
| MARTIN | 3ST | MARTIN | CA | NG | PL | --- | --- | 0 | 2 / 1994 | --- / --- | 455 | 477 | 449 | 471 | OP |
| MARTIN | 4GT1 | MARTIN | CT | NG | PL | DFO | TK | 0 | 4 / 1994 | --- / --- | | | | | OP |
| MARTIN | 4GT2 | MARTIN | CT | NG | PL | DFO | TK | 0 | 4 / 1994 | --- / --- | | | | | OP |
| MARTIN | 4ST | MARTIN | CA | NG | PL | --- | --- | 0 | 4 / 1994 | --- / --- | 456 | 478 | 450 | 472 | OP |
| PORT EVERGLADES | 1 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 43 | OP |
| PORT EVERGLADES | 2 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 43 | OP |
| PORT EVERGLADES | 3 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 43 | OP |
| PORT EVERGLADES | 4 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 43 | OP |
| PORT EVERGLADES | 5 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 43 | OP |
| PORT EVERGLADES | 6 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 42 | OP |
| PORT EVERGLADES | 7 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 42 | OP |
| PORT EVERGLADES | 8 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 42 | OP |
| PORT EVERGLADES | 9 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 42 | OP |
| PORT EVERGLADES | 10 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 42 | OP |
| PORT EVERGLADES | 11 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 42 | OP |
| PORT EVERGLADES | 12 | BROWARD | GT | NG | PL | DFO | WA | 52 | 8 / 1971 | --- / --- | 35 | 43 | 35 | 42 | OP |
| PORT EVERGLADES | ST1 | BROWARD | ST | RFO | WA | NG | PL | 0 | 6 / 1960 | --- / --- | 231 | 232 | 219 | 220 | OP |
| PORT EVERGLADES | ST2 | BROWARD | ST | RFO | WA | NG | PL | 0 | 4 / 1961 | --- / --- | 231 | 232 | 219 | 220 | OP |
| PORT EVERGLADES | ST3 | BROWARD | ST | RFO | WA | NG | PL | 0 | 7 / 1964 | --- / --- | 387 | 392 | 377 | 382 | OP |
| PORT EVERGLADES | ST4 | BROWARD | ST | RFO | WA | NG | PL | 0 | 4 / 1965 | --- / --- | 395 | 400 | 385 | 390 | OP |
| PUTNAM | 1GT1 | PUTNAM | CT | NG | PL | DFO | WA | 3 | 4 / 1978 | --- / --- | | | | | OP |
| PUTNAM | 1GT2 | PUTNAM | CT | NG | PL | DFO | WA | 3 | 4 / 1978 | --- / --- | | | | | OP |
| PUTNAM | 1ST | PUTNAM | CA | NG | PL | DFO | WA | 0 | 4 / 1978 | --- / --- | 250 | 287 | 245 | 282 | OP |
| PUTNAM | 2GT1 | PUTNAM | CT | NG | PL | DFO | WA | 3 | 8 / 1977 | --- / --- | | | | | OP |
| PUTNAM | 2GT2 | PUTNAM | CT | NG | PL | DFO | WA | 3 | 8 / 1977 | --- / --- | | | | | OP |
| PUTNAM | 2ST | PUTNAM | CA | NG | PL | DFO | WA | 0 | 8 / 1977 | --- / --- | 254 | 291 | 249 | 286 | OP |
| RIVIERA | 3 | PALM BEACH | ST | RFO | WA | NG | PL | 0 | 6 / 1962 | --- / --- | 286 | 288 | 272 | 274 | OP |
| RIVIERA | 4 | PALM BEACH | ST | RFO | WA | NG | PL | 0 | 3 / 1963 | --- / --- | 298 | 300 | 284 | 286 | OP |
| SANFORD | 3 | VOLUSIA | ST | RFO | WA | NG | PL | 0 | 5 / 1959 | --- / --- | 144 | 149 | 138 | 142 | OP |
| SANFORD | 4 | VOLUSIA | CC | NG | PL | --- | --- | 0 | 10 / 2003 | --- / --- | 963 | 1057 | 952 | 1045 | OP |
| SANFORD | 5 | VOLUSIA | CC | NG | PL | --- | --- | 0 | 6 / 2002 | --- / --- | 963 | 1057 | 952 | 1045 | OP |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

## 2006
## LOAD AND RESOURCE PLAN
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## FRCC Form 1.0
## EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| SCHERER (882/887) * | 4 | MONROE, GA | ST | BIT | RR | --- | --- | 0 | 7 / 1988 | 2 / 2029 | 671 | 674 | 639 | 642 | OP |
| ST. JOHNS RIVER (660/672) * | 1 | DUVAL | ST | BIT | RR | DFO | PL | 0 | 4 / 1987 | --- / --- | 134 | 137 | 127 | 130 | OP |
| ST. JOHNS RIVER (660/672) * | 2 | DUVAL | ST | BIT | RR | DFO | PL | 0 | 7 / 1988 | --- / --- | 111 | 119 | 105 | 112 | OP |
| ST. LUCIE | 1 | ST. LUCIE | ST | NUC | TK | --- | --- | | 5 / 1976 | --- / --- | 878 | 893 | 839 | 853 | OP |
| ST. LUCIE (878/892) * | 2 | ST. LUCIE | ST | NUC | TK | --- | --- | 0 | 6 / 1983 | --- / --- | 747 | 760 | 714 | 726 | OP |
| TURKEY POINT | 1 | DADE | ST | RFO | WA | NG | PL | 0 | 4 / 1967 | --- / --- | 404 | 407 | 385 | 388 | OP |
| TURKEY POINT | 2 | DADE | ST | RFO | WA | NG | PL | | 4 / 1968 | --- / --- | 419 | 422 | 400 | 403 | OP |
| TURKEY POINT | 3 | DADE | ST | NUC | TK | --- | --- | | 12 / 1972 | --- / --- | 726 | 751 | 693 | 717 | OP |
| TURKEY POINT | 4 | DADE | ST | NUC | TK | --- | --- | | 9 / 1973 | --- / --- | 726 | 751 | 693 | 717 | OP |
| TURKEY POINT | IC1 | DADE | IC | DFO | TK | --- | --- | 0 | 4 / 1968 | --- / --- | 3 | 3 | 3 | 3 | OP |
| TURKEY POINT | IC2 | DADE | IC | DFO | TK | --- | --- | | 4 / 1968 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TURKEY POINT | IC3 | DADE | IC | DFO | TK | --- | --- | | 4 / 1968 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TURKEY POINT | IC4 | DADE | IC | DFO | TK | --- | --- | | 4 / 1968 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TURKEY POINT | IC5 | DADE | IC | DFO | TK | --- | --- | 0 | 4 / 1968 | --- / --- | 3 | 3 | 3 | 3 | OP |
| | | | | | | | | | | | FPL TOTAL: | | 20,777 | 22,099 | |
| **FORT PIERCE UTILITIES AUTHORITIES** | | | | | | | | | | | | | | | |
| H. D. KING | 5 | ST. LUCIE | CA | WH | --- | --- | --- | | 1 / 1953 | --- / --- | 8 | 8 | 8 | 8 | OP |
| H. D. KING | 6 | ST. LUCIE | ST | NG | PL | RFO | TK | | 12 / 1958 | --- / --- | 17 | 17 | 17 | 17 | SB |
| H. D. KING | 7 | ST. LUCIE | ST | NG | PL | RFO | TK | | 1 / 1964 | --- / --- | 32 | 32 | 32 | 32 | OP |
| H. D. KING | 8 | ST. LUCIE | ST | NG | PL | RFO | TK | | 5 / 1976 | --- / --- | 50 | 50 | 50 | 50 | OP |
| H. D. KING | 9 | ST. LUCIE | CT | NG | PL | DFO | TK | | 5 / 1990 | --- / --- | 23 | 23 | 23 | 23 | OP |
| H. D. KING | D1 | ST. LUCIE | IC | DFO | TK | --- | --- | | 4 / 1970 | --- / --- | 3 | 3 | 3 | 3 | OP |
| H. D. KING | D2 | ST. LUCIE | IC | DFO | TK | --- | --- | | 4 / 1970 | --- / --- | 3 | 3 | 3 | 3 | OP |
| | | | | | | | | | | | FTP TOTAL: | | 119 | 119 | |
| **GAINESVILLE REGIONAL UTILITIES** | | | | | | | | | | | | | | | |
| CRYSTAL RIVER (885/898) * | 3 | CITRUS | ST | NUC | TK | --- | --- | 0 | 3 / 1977 | --- / --- | 12.2 | 12.4 | 11.6 | 11.8 | OP |
| DEERHAVEN | FS01 | ALACHUA | ST | NG | PL | RFO | TK | 0 | 8 / 1972 | --- / --- | 88 | 88 | 83 | 83 | OP |
| DEERHAVEN | FS02 | ALACHUA | ST | BIT | RR | --- | --- | 0 | 10 / 1981 | --- / --- | 249 | 249 | 228.4 | 228.4 | OP |
| DEERHAVEN | GT01 | ALACHUA | GT | NG | PL | DFO | TK | 0 | 7 / 1976 | --- / --- | 19 | 21 | 17.5 | 20 | OP |
| DEERHAVEN | GT02 | ALACHUA | GT | NG | PL | DFO | TK | 0 | 8 / 1976 | --- / --- | 19 | 21 | 17.5 | 20 | OP |
| DEERHAVEN | GT03 | ALACHUA | GT | NG | PL | DFO | TK | 0 | 1 / 1996 | --- / --- | 76 | 82 | 75 | 81 | OP |
| J. R. KELLY | FS07 | ALACHUA | ST | NG | PL | RFO | TK | 0 | 8 / 1961 | 8 / 2011 | 24 | 24 | 23.2 | 23.2 | OP |
| J. R. KELLY | FS08 | ALACHUA | CA | WH | NA | NA | NA | 0 | 5 / 2001 | --- / --- | 38 | 38 | 37 | 37 | OP |
| J. R. KELLY | GT01 | ALACHUA | GT | NG | PL | DFO | TK | 0 | 2 / 1968 | --- / --- | 14 | 15 | 14 | 15 | OP |
| J. R. KELLY | GT02 | ALACHUA | GT | NG | PL | DFO | TK | 0 | 9 / 1968 | --- / --- | 14 | 15 | 14 | 15 | OP |
| J. R. KELLY | GT03 | ALACHUA | GT | NG | PL | DFO | TK | 0 | 5 / 1969 | --- / --- | 14 | 15 | 14 | 15 | OP |
| J. R. KELLY | GT04 | ALACHUA | CT | NG | PL | DFO | TK | 0 | 5 / 2001 | --- / --- | 76 | 82 | 75 | 81 | OP |
| SOUTHWEST LANDFILL | LF1-3 | ALACHUA | IC | LFG | PL | NA | NA | 0 | 12 / 2003 | 12 / 2015 | 1.3 | 1.3 | 1.3 | 1.3 | OP |
| | | | | | | | | | | | GRU TOTAL: | | 612 | 632 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

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| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| **HOMESTEAD CITY OF** | | | | | | | | | | | | | | | |
| G. W. IVEY | 2-3 | DADE | IC | NG | PL | DFO | TK | 62 | 3 / 1970 | 1 / 2014 | 4 | 4 | 3.6 | 3.6 | OP |
| G. W. IVEY | 8 | DADE | IC | NG | PL | DFO | TK | 94 | 1 / 1954 | 1 / 2016 | 2.5 | 2.5 | 2 | 2 | OP |
| G. W. IVEY | 9-10 | DADE | IC | NG | PL | DFO | TK | 47 | 1 / 1958 | 1 / 2016 | 5 | 5 | 4 | 4 | OP |
| G. W. IVEY | 11-12 | DADE | IC | NG | PL | DFO | TK | 35 | 1 / 1965 | 1 / 2016 | 7 | 7 | 6 | 6 | OP |
| G. W. IVEY | 13-17 | DADE | IC | NG | PL | DFO | TK | 24 | 11 / 1972 | 1 / 2016 | 10 | 10 | 9 | 9 | OP |
| G. W. IVEY | 18-19 | DADE | IC | NG | PL | DFO | TK | 16 | 2 / 1975 | --- / --- | 18 | 18 | 15 | 15 | OP |
| G. W. IVEY | 20-21 | DADE | IC | NG | PL | DFO | TK | 21 | 5 / 1981 | --- / --- | 13 | 13 | 13 | 13 | OP |
| | | | | | | | | | | | HST TOTAL: | | 53 | 53 | |
| **JEA** | | | | | | | | | | | | | | | |
| BRANDY BRANCH | 4 | DUVAL | CC | NG | PL | DFO | TK | | 2 / 2005 | --- / --- | 544.8 | 580 | 532 | 567 | OP |
| BRANDY BRANCH | GT1 | DUVAL | GT | NG | PL | DFO | TK | 0 | 5 / 2001 | --- / --- | 160.1 | 192.7 | 158 | 191 | OP |
| GIRVIN LANDFILL | 1-4 | DUVAL | IC | LFG | PL | --- | --- | 0 | 7 / 1997 | --- / --- | 1.2 | 1.2 | 1.2 | 1.2 | OP |
| J. D. KENNEDY | GT3 | DUVAL | GT | DFO | WA | --- | --- | 0 | 8 / 1973 | --- / --- | 51.3 | 63 | 51 | 62.7 | OP |
| J. D. KENNEDY | GT4 | DUVAL | GT | DFO | WA | --- | --- | 0 | 7 / 1973 | --- / --- | 51.3 | 63 | 51 | 62.7 | SB |
| J. D. KENNEDY | GT5 | DUVAL | GT | DFO | WA | --- | --- | 0 | 11 / 1973 | --- / --- | 51.3 | 63 | 51 | 62.7 | SB |
| J. D. KENNEDY | GT7 | DUVAL | GT | NG | PL | DFO | WA | 0 | 6 / 2000 | --- / --- | 160.1 | 192.7 | 158 | 191 | OP |
| NORTHSIDE | 1 | DUVAL | ST | PC | WA | BIT | WA | 0 | 3 / 1966 | 5 / 2032 | 297.5 | 297.5 | 275 | 275 | OP |
| NORTHSIDE | 2 | DUVAL | ST | PC | WA | BIT | WA | 0 | 6 / 1972 | 2 / 2032 | 297.5 | 297.5 | 275 | 275 | OP |
| NORTHSIDE | 3 | DUVAL | ST | NG | PL | RFO | WA | 0 | 6 / 1977 | 6 / 2017 | 539 | 539 | 523 | 523 | OP |
| NORTHSIDE | GT3 | DUVAL | GT | DFO | WA | --- | --- | 0 | 1 / 1975 | --- / --- | 53.4 | 62 | 53 | 61.6 | OP |
| NORTHSIDE | GT4 | DUVAL | GT | DFO | WA | --- | --- | 0 | 1 / 1975 | --- / --- | 53.4 | 62 | 53 | 61.6 | OP |
| NORTHSIDE | GT5 | DUVAL | GT | DFO | WA | --- | --- | 0 | 12 / 1974 | --- / --- | 53.4 | 62 | 53 | 61.6 | OP |
| NORTHSIDE | GT6 | DUVAL | GT | DFO | WA | --- | --- | 0 | 12 / 1974 | --- / --- | 53.4 | 62 | 53 | 61.6 | OP |
| SCHERER (882/887) * | 4 | MONROE, GA | ST | BIT | RR | --- | --- | 0 | 2 / 1989 | --- / --- | 200 | 200 | 200 | 200 | OP |
| ST. JOHNS RIVER (660/672) * | 1 | DUVAL | ST | BIT | RR | PC | WA | 0 | 3 / 1987 | --- / --- | 528 | 537.6 | 501 | 510 | OP |
| ST. JOHNS RIVER (660/672) * | 2 | DUVAL | ST | BIT | RR | PC | WA | 0 | 5 / 1988 | --- / --- | 528 | 537.6 | 501 | 510 | OP |
| | | | | | | | | | | | JEA TOTAL: | | 3,387 | 3,552 | |
| **KEY WEST UTILITY BOARD** | | | | | | | | | | | | | | | |
| BIG PINE KEY PEAKER | 1 | MONROE | IC | DFO | TK | --- | --- | | 2 / 1969 | --- / --- | 3 | 3 | 3 | 3 | OP |
| CUDJOE KEY PEAKER | 2 | MONROE | IC | DFO | TK | --- | --- | | 8 / 1968 | --- / --- | 3 | 3 | 3 | 3 | OP |
| CUDJOE KEY PEAKER | 3 | MONROE | IC | DFO | TK | --- | --- | | 8 / 1968 | --- / --- | 2 | 2 | 2 | 2 | OP |
| STOCK ISLAND | GT1 | MONROE | GT | DFO | WA | --- | --- | | 11 / 1978 | --- / --- | 20 | 20 | 20 | 20 | OP |
| STOCK ISLAND HSD | IC1 | MONROE | IC | DFO | WA | --- | --- | | 1 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| STOCK ISLAND HSD | IC2 | MONROE | IC | DFO | WA | --- | --- | | 1 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| STOCK ISLAND HSD | IC3 | MONROE | IC | DFO | WA | --- | --- | | 1 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| STOCK ISLAND MSD | MSD1 | MONROE | IC | DFO | WA | --- | --- | | 6 / 1991 | --- / --- | 9 | 9 | 9 | 9 | OP |
| STOCK ISLAND MSD | MSD2 | MONROE | IC | DFO | WA | --- | --- | | 6 / 1991 | --- / --- | 9 | 9 | 9 | 9 | OP |
| | | | | | | | | | | | KEY TOTAL: | | 52 | 52 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
*FLORIDA RELIABILITY COORDINATING COUNCIL*
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE (DAYS | COMMERCIAL IN-SERVICE | EXPECTED RETIREMENT | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | BURN) | MO. / YEAR | MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| **KISSIMMEE UTILITY AUTHORITY** | | | | | | | | | | | | | | | |
| CANE ISLAND (34/40) * | 1GT | OSCEOLA | GT | NG | PL | DFO | TK | 4 | 11 / 1994 | --- / --- | 17 | 20 | 17 | 20 | OP |
| CANE ISLAND (110/120) * | 2CT | OSCEOLA | CT | NG | PL | DFO | TK | 0 | 6 / 1995 | --- / --- | 35 | 40 | 35 | 39 | OP |
| CANE ISLAND (110/120) * | 2CW | OSCEOLA | CA | NG | NA | NA | NA | 0 | 6 / 1995 | --- / --- | 20 | 20 | 19 | 20 | OP |
| CANE ISLAND (244/267) * | 3CT | OSCEOLA | CT | NG | PL | DFO | TK | 0 | 1 / 2002 | --- / --- | 90.5 | 90.5 | 75 | 80 | OP |
| CANE ISLAND (244/267) * | 3CW | OSCEOLA | CA | WH | NA | NA | NA | 0 | 1 / 2002 | --- / --- | 49.3 | 49.3 | 45 | 45 | OP |
| CRYSTAL RIVER (885/898) * | 3 | CITRUS | ST | NUC | TK | --- | --- | 0 | 3 / 1977 | --- / --- | 6 | 6 | 6 | 6 | OP |
| HANSEL | 21 | OSCEOLA | CT | NG | PL | DFO | TK | 0 | 2 / 1983 | --- / --- | 31 | 38 | 30 | 38 | OP |
| HANSEL | 22 | OSCEOLA | CA | NG | PL | DFO | TK | 0 | 11 / 1983 | --- / --- | 8 | 6 | 8 | 6 | OP |
| HANSEL | 23 | OSCEOLA | CA | NG | PL | DFO | TK | 12 | 11 / 1983 | --- / --- | 8 | 6 | 8 | 6 | OP |
| INDIAN RIVER (76/96) * | A-B | BREVARD | GT | NG | PL | DFO | TK | 0 | 6 / 1999 | --- / --- | 9 | 12 | 9 | 12 | OP |
| STANTON (467/470) * | 1 | ORANGE | ST | BIT | RR | --- | --- | 0 | 7 / 1987 | --- / --- | 21 | 21 | 21 | 21 | OP |
| STANTON (667/712) * | A | ORANGE | CA | WH | NA | NA | NA | 0 | 10 / 2003 | --- / --- | 10 | 10 | 9 | 9 | OP |
| STANTON (667/712) * | A | ORANGE | CT | NG | PL | DFO | TK | 3 | 9 / 2003 | --- / --- | 13 | 15 | 12 | 14 | OP |
| | | | | | | | | | | | KUA TOTAL: | | 294 | 316 | |
| **LAKELAND CITY OF** | | | | | | | | | | | | | | | |
| LARSEN | 2 | POLK | GT | NG | PL | DFO | TK | 28 | 11 / 1962 | --- / --- | 10 | 14 | 10 | 14 | OP |
| LARSEN | 3 | POLK | GT | NG | PL | DFO | TK | 28 | 12 / 1962 | --- / --- | 9 | 13 | 9 | 13 | OP |
| LARSEN | 8CT | POLK | CT | NG | PL | DFO | TK | 5 | 7 / 1992 | --- / --- | 75 | 95 | 73 | 93 | OP |
| LARSEN | 8ST | POLK | CA | WH | UN | --- | --- | 0 | 4 / 1956 | --- / --- | 29 | 31 | 29 | 31 | OP |
| MCINTOSH | 1 | POLK | ST | NG | PL | RFO | TK | 29 | 2 / 1971 | --- / --- | 90 | 90 | 87 | 87 | OP |
| MCINTOSH | 2 | POLK | ST | NG | PL | RFO | TK | 25 | 6 / 1976 | --- / --- | 114 | 109 | 106 | 106 | OP |
| MCINTOSH (365/365) * | 3 | POLK | ST | BIT | RR | --- | --- | 0 | 9 / 1982 | --- / --- | 219 | 219 | 205 | 205 | OP |
| MCINTOSH | 5CT | POLK | CT | NG | PL | --- | --- | 0 | 5 / 2001 | --- / --- | 211 | 250 | 210 | 250 | OP |
| MCINTOSH | 5ST | POLK | CA | WH | UN | --- | --- | 0 | 5 / 2002 | --- / --- | 115 | 124 | 112 | 121 | OP |
| MCINTOSH | D1 | POLK | IC | DFO | TK | --- | --- | 0 | 1 / 1970 | --- / --- | 2.5 | 2.5 | 2.5 | 2.5 | OP |
| MCINTOSH | D2 | POLK | IC | DFO | TK | --- | --- | 0 | 1 / 1970 | --- / --- | 2.5 | 2.5 | 2.5 | 2.5 | OP |
| MCINTOSH | GT1 | POLK | GT | NG | PL | DFO | TK | 2 | 5 / 1973 | --- / --- | 17 | 20 | 17 | 20 | OP |
| WINSTON | 1-20 | POLK | IC | NG | PL | DFO | TK | 3 | 12 / 2001 | --- / --- | 50 | 50 | 50 | 50 | OP |
| | | | | | | | | | | | LAK TOTAL: | | 913 | 995 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| **LAKE WORTH UTILITIES CITY OF** | | | | | | | | | | | | | | | |
| TOM G. SMITH | GT-1 | PALM BEACH | GT | DFO | TK | --- | --- | 0 | 12 / 1976 | --- / --- | 31 | 31 | 26 | 31 | OP |
| TOM G. SMITH | GT-2 | PALM BEACH | CT | NG | PL | DFO | TK | 2 | 3 / 1978 | --- / --- | 21 | 23 | 20 | 20 | OP |
| TOM G. SMITH | MU1 | PALM BEACH | IC | DFO | TK | --- | --- | | 12 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TOM G. SMITH | MU2 | PALM BEACH | IC | DFO | TK | --- | --- | | 12 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TOM G. SMITH | MU3 | PALM BEACH | IC | DFO | TK | --- | --- | | 12 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TOM G. SMITH | MU4 | PALM BEACH | IC | DFO | TK | --- | --- | | 12 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TOM G. SMITH | MU5 | PALM BEACH | IC | DFO | TK | --- | --- | | 12 / 1965 | --- / --- | 2 | 2 | 2 | 2 | OP |
| TOM G. SMITH | S-1 | PALM BEACH | ST | NG | PL | RFO | TK | 17 | 1 / 1961 | --- / --- | 8 | 8 | 7 | 8 | OP |
| TOM G. SMITH | S-3 | PALM BEACH | ST | NG | PL | RFO | TK | 6 | 11 / 1967 | --- / --- | 27 | 27 | 22 | 24 | OP |
| TOM G. SMITH | S-4 | PALM BEACH | ST | NG | PL | RFO | TK | | 8 / 1971 | --- / --- | 33 | 33 | 32 | 33 | OS |
| TOM G. SMITH | S-5 | PALM BEACH | CA | WH | --- | --- | --- | | 3 / 1978 | --- / --- | 10 | 10 | 9 | 9 | OP |
| | | | | | | | | | | | LWU TOTAL: | | 94 | 102 | |
| **NEW SMYRNA BEACH UTILITIES COMMISSION OF** | | | | | | | | | | | | | | | |
| CRYSTAL RIVER (885/898) * | 3 | CITRUS | ST | NUC | TK | --- | --- | 0 | 3 / 1977 | --- / --- | 5.4 | 5.4 | 4 | 4 | OP |
| FIELD STREET | 1 | VOLUSIA | GT | DFO | TK | --- | --- | 0 | 5 / 2001 | --- / --- | 22 | 24 | 22 | 24 | OP |
| FIELD STREET | 2 | VOLUSIA | GT | DFO | TK | --- | --- | 0 | 5 / 2001 | --- / --- | 22 | 24 | 22 | 24 | OP |
| SMITH | 3 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1946 | --- / --- | 1 | 1 | 1 | 1 | OP |
| SMITH | 4 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1950 | --- / --- | 1 | 1 | 1 | 1 | OP |
| SMITH | 6 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1955 | --- / --- | 2 | 2 | 2 | 2 | OP |
| SMITH | 7 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1956 | --- / --- | 2 | 2 | 2 | 2 | OP |
| SMITH | 8 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1960 | --- / --- | 1 | 1 | 1 | 1 | OP |
| SMITH | 9 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1967 | --- / --- | 2 | 2 | 2 | 2 | OP |
| SMITH | 10 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1967 | --- / --- | 2 | 2 | 2 | 2 | OP |
| SMITH | 11 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 1 / 1967 | --- / --- | 2 | 2 | 2 | 2 | OP |
| SWOOPE STATION | 2 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 11 / 1981 | --- / --- | 1 | 1 | 1 | 1 | OP |
| SWOOPE STATION | 3 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 12 / 1982 | --- / --- | 2 | 2 | 2 | 2 | OP |
| SWOOPE STATION | 4 | VOLUSIA | IC | DFO | TK | --- | --- | 0 | 12 / 1982 | --- / --- | 2 | 2 | 2 | 2 | OP |
| | | | | | | | | | | | NSB TOTAL: | | 66 | 70 | |
| **OCALA ELECTRIC UTILITY** | | | | | | | | | | | | | | | |
| CRYSTAL RIVER (885/898) * | 3 | CITRUS | ST | NUC | TK | --- | --- | | 3 / 1977 | --- / --- | 11.8 | 12 | 11 | 11 | OP |
| | | | | | | | | | | | OEU TOTAL: | | 11 | 11 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

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EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| **ORLANDO UTILITIES COMMISSION** | | | | | | | | | | | | | | | |
| CRYSTAL RIVER (885/898) * | 3 | CITRUS | ST | NUC | TK | NA | NA | 0 | 3 / 1977 | --- / --- | 14 | 14 | 13 | 13 | OP |
| INDIAN RIVER (76/96) * | A-B | BREVARD | GT | NG | PL | DFO | TK | 0 | 7 / 1989 | --- / --- | 37 | 47 | 36 | 47 | OP |
| INDIAN RIVER (218/256) * | C-D | BREVARD | GT | NG | PL | DFO | TK | 0 | 8 / 1992 | --- / --- | 172 | 202 | 171 | 201 | OP |
| MCINTOSH (365/365) * | ST3 | POLK | ST | BIT | RR | NA | NA | 0 | 9 / 1982 | --- / --- | 146 | 146 | 133 | 136 | OP |
| ST. LUCIE (878/892) * | 2 | ST. LUCIE | ST | NUC | TK | NA | NA | 0 | 6 / 1983 | --- / --- | 54 | 54 | 51 | 52 | OP |
| STANTON (467/470) * | 1 | ORANGE | ST | BIT | RR | NA | NA | 0 | 7 / 1987 | --- / --- | 320 | 322 | 302 | 304 | OP |
| STANTON (469/469) * | 2 | ORANGE | ST | BIT | RR | NA | NA | 0 | 6 / 1996 | --- / --- | 336 | 336 | 319 | 319 | OP |
| STANTON (667/712) * | A | ORANGE | CT | NG | PL | DFO | TK | 3 | 10 / 2003 | --- / --- | 187 | 199 | 174 | 185 | OP |
| | | | | | | | | | | | OUC TOTAL: | | 1,199 | 1,257 | |
| **PROGRESS ENERGY FLORIDA** | | | | | | | | | | | | | | | |
| ANCLOTE | 1 | PASCO | ST | RFO | PL | NG | PL | | 10 / 1974 | --- / --- | 518 | 535 | 498 | 522 | OP |
| ANCLOTE | 2 | PASCO | ST | RFO | PL | NG | PL | | 10 / 1978 | --- / --- | 515 | 535 | 495 | 522 | OP |
| AVON PARK | P1 | HIGHLANDS | GT | NG | PL | DFO | TK | 3 | 12 / 1968 | --- / --- | 26 | 32 | 26 | 32 | OP |
| AVON PARK | P2 | HIGHLANDS | GT | DFO | TK | --- | --- | | 12 / 1968 | --- / --- | 26 | 32 | 26 | 32 | OP |
| BAYBORO | P1 | PINELLAS | GT | DFO | WA | --- | --- | | 4 / 1973 | --- / --- | 46 | 58 | 46 | 58 | OP |
| BAYBORO | P2 | PINELLAS | GT | DFO | WA | --- | --- | | 4 / 1973 | --- / --- | 46 | 58 | 46 | 58 | OP |
| BAYBORO | P3 | PINELLAS | GT | DFO | WA | --- | --- | | 4 / 1973 | --- / --- | 46 | 58 | 46 | 58 | OP |
| BAYBORO | P4 | PINELLAS | GT | DFO | WA | --- | --- | | 4 / 1973 | --- / --- | 46 | 58 | 46 | 58 | OP |
| CRYSTAL RIVER | 1 | CITRUS | ST | BIT | WA | --- | --- | | 10 / 1966 | --- / --- | 410 | 410 | 379 | 383 | OP |
| CRYSTAL RIVER | 2 | CITRUS | ST | BIT | WA | --- | --- | 0 | 11 / 1969 | --- / --- | 510 | 510 | 486 | 491 | OP |
| CRYSTAL RIVER (885/898) * | 3 | CITRUS | ST | NUC | TK | --- | --- | 0 | 3 / 1977 | --- / --- | 812 | 824 | 778 | 798 | OP |
| CRYSTAL RIVER | 4 | CITRUS | ST | BIT | WA | --- | --- | 0 | 12 / 1982 | --- / --- | 745 | 755 | 720 | 735 | OP |
| CRYSTAL RIVER | 5 | CITRUS | ST | BIT | WA | --- | --- | 0 | 10 / 1984 | --- / --- | 750 | 765 | 717 | 732 | OP |
| DEBARY | P1 | VOLUSIA | GT | DFO | TK | --- | --- | | 2 / 1976 | --- / --- | 55 | 66 | 54 | 65 | OP |
| DEBARY | P2 | VOLUSIA | GT | DFO | TK | --- | --- | | 3 / 1976 | --- / --- | 55 | 66 | 54 | 65 | OP |
| DEBARY | P3 | VOLUSIA | GT | DFO | TK | --- | --- | | 12 / 1975 | --- / --- | 55 | 66 | 54 | 65 | OP |
| DEBARY | P4 | VOLUSIA | GT | DFO | TK | --- | --- | | 4 / 1976 | --- / --- | 55 | 66 | 54 | 65 | OP |
| DEBARY | P5 | VOLUSIA | GT | DFO | TK | --- | --- | | 12 / 1975 | --- / --- | 55 | 66 | 54 | 65 | OP |
| DEBARY | P6 | VOLUSIA | GT | DFO | TK | --- | --- | | 4 / 1976 | --- / --- | 55 | 66 | 54 | 65 | OP |
| DEBARY | P7 | VOLUSIA | GT | NG | PL | DFO | TK | 8 | 10 / 1992 | --- / --- | 86 | 93 | 86 | 93 | OP |
| DEBARY | P8 | VOLUSIA | GT | NG | PL | DFO | TK | 0 | 10 / 1992 | --- / --- | 86 | 93 | 86 | 93 | OP |
| DEBARY | P9 | VOLUSIA | GT | NG | PL | DFO | TK | 0 | 10 / 1992 | --- / --- | 86 | 93 | 86 | 93 | OP |
| DEBARY | P10 | VOLUSIA | GT | DFO | TK | --- | --- | | 10 / 1992 | --- / --- | 85 | 93 | 85 | 93 | OP |
| G. E. TURNER | P1 | VOLUSIA | GT | DFO | TK | --- | --- | | 10 / 1970 | --- / --- | 13 | 16 | 13 | 16 | OP |
| G. E. TURNER | P2 | VOLUSIA | GT | DFO | TK | --- | --- | | 10 / 1970 | --- / --- | 13 | 16 | 13 | 16 | OP |
| G. E. TURNER | P3 | VOLUSIA | GT | DFO | TK | --- | --- | | 8 / 1974 | --- / --- | 65 | 82 | 65 | 82 | OP |
| G. E. TURNER | P4 | VOLUSIA | GT | DFO | TK | --- | --- | | 8 / 1974 | --- / --- | 63 | 80 | 63 | 80 | OP |
| HIGGINS | P1 | PINELLAS | GT | NG | PL | DFO | TK | 0 | 3 / 1969 | --- / --- | 27 | 32 | 27 | 32 | OP |
| HIGGINS | P2 | PINELLAS | GT | NG | PL | DFO | TK | 0 | 4 / 1969 | --- / --- | 27 | 32 | 27 | 32 | OP |
| HIGGINS | P3 | PINELLAS | GT | NG | PL | DFO | TK | 1 | 12 / 1970 | --- / --- | 34 | 35 | 34 | 35 | OP |
| HIGGINS | P4 | PINELLAS | GT | NG | PL | DFO | TK | 1 | 1 / 1971 | --- / --- | 34 | 35 | 34 | 35 | OP |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

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EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| HINES ENERGY COMPLEX | 1GT1 | POLK | CT | NG | PL | DFO | TK | 0 | 4 / 1999 | --- / --- | | | | | OP |
| HINES ENERGY COMPLEX | 1GT2 | POLK | CT | NG | PL | DFO | TK | 0 | 4 / 1999 | --- / --- | | | | | OP |
| HINES ENERGY COMPLEX | 1ST | POLK | CA | WH | NA | --- | --- | 2 | 4 / 1999 | --- / --- | 487 | 534 | 482 | 529 | OP |
| HINES ENERGY COMPLEX | 2GT1 | POLK | CT | NG | PL | DFO | TK | 0 | 12 / 2003 | --- / --- | | | | | OP |
| HINES ENERGY COMPLEX | 2GT2 | POLK | CT | NG | PL | DFO | TK | 0 | 12 / 2003 | --- / --- | | | | | OP |
| HINES ENERGY COMPLEX | 2ST | POLK | CA | WH | NA | --- | --- | 0 | 12 / 2003 | --- / --- | 521 | 588 | 516 | 582 | OP |
| HINES ENERGY COMPLEX | 3GT1 | POLK | CT | NG | PL | DFO | TK | 0 | 11 / 2005 | --- / --- | | | | | OP |
| HINES ENERGY COMPLEX | 3GT2 | POLK | CT | NG | PL | DFO | TK | 0 | 11 / 2005 | --- / --- | | | | | OP |
| HINES ENERGY COMPLEX | 3ST | POLK | CA | WH | NA | --- | --- | 0 | 11 / 2005 | --- / --- | 507 | 582 | 501 | 576 | OP |
| INTERCESSION CITY | P1 | OSCEOLA | GT | DFO | PL | --- | --- | | 5 / 1974 | --- / --- | 49 | 61 | 49 | 61 | OP |
| INTERCESSION CITY | P2 | OSCEOLA | GT | DFO | PL | --- | --- | | 5 / 1974 | --- / --- | 49 | 61 | 49 | 61 | OP |
| INTERCESSION CITY | P3 | OSCEOLA | GT | DFO | PL | --- | --- | | 5 / 1974 | --- / --- | 49 | 61 | 49 | 61 | OP |
| INTERCESSION CITY | P4 | OSCEOLA | GT | DFO | PL | --- | --- | | 5 / 1974 | --- / --- | 49 | 61 | 49 | 61 | OP |
| INTERCESSION CITY | P5 | OSCEOLA | GT | DFO | PL | --- | --- | | 5 / 1974 | --- / --- | 49 | 61 | 49 | 61 | OP |
| INTERCESSION CITY | P6 | OSCEOLA | GT | DFO | PL | --- | --- | | 5 / 1974 | --- / --- | 49 | 61 | 49 | 61 | OP |
| INTERCESSION CITY | P7 | OSCEOLA | GT | NG | PL | DFO | PL | 5 | 10 / 1993 | --- / --- | 88 | 94 | 88 | 94 | OP |
| INTERCESSION CITY | P8 | OSCEOLA | GT | NG | PL | DFO | PL | 0 | 10 / 1993 | --- / --- | 88 | 94 | 88 | 94 | OP |
| INTERCESSION CITY | P9 | OSCEOLA | GT | NG | PL | DFO | PL | 0 | 10 / 1993 | --- / --- | 88 | 94 | 88 | 94 | OP |
| INTERCESSION CITY | P10 | OSCEOLA | GT | NG | PL | DFO | PL | 0 | 10 / 1993 | --- / --- | 88 | 94 | 88 | 94 | OP |
| INTERCESSION CITY (145/172) * | P11 | OSCEOLA | GT | DFO | PL | --- | --- | | 1 / 1997 | --- / --- | 0 | 172 | 0 | 170 | OP |
| INTERCESSION CITY | P12 | OSCEOLA | GT | NG | PL | DFO | PL | 5 | 12 / 2000 | --- / --- | 84 | 98 | 84 | 98 | OP |
| INTERCESSION CITY | P13 | OSCEOLA | GT | NG | PL | DFO | PL | 0 | 12 / 2000 | --- / --- | 84 | 98 | 84 | 98 | OP |
| INTERCESSION CITY | P14 | OSCEOLA | GT | NG | PL | DFO | PL | 0 | 12 / 2000 | --- / --- | 84 | 98 | 84 | 98 | OP |
| P. L. BARTOW | 1 | PINELLAS | ST | RFO | WA | --- | --- | | 9 / 1958 | --- / --- | 128 | 130 | 121 | 123 | OP |
| P. L. BARTOW | 2 | PINELLAS | ST | RFO | WA | --- | --- | | 8 / 1961 | --- / --- | 125 | 127 | 119 | 121 | OP |
| P. L. BARTOW | 3 | PINELLAS | ST | RFO | WA | NG | PL | | 7 / 1963 | --- / --- | 211 | 215 | 204 | 208 | OP |
| P. L. BARTOW | P1 | PINELLAS | GT | DFO | WA | --- | --- | | 5 / 1972 | --- / --- | 46 | 53 | 46 | 53 | OP |
| P. L. BARTOW | P2 | PINELLAS | GT | NG | PL | DFO | WA | 8 | 6 / 1972 | --- / --- | 46 | 53 | 46 | 53 | OP |
| P. L. BARTOW | P3 | PINELLAS | GT | DFO | WA | --- | --- | | 6 / 1972 | --- / --- | 46 | 53 | 46 | 53 | OP |
| P. L. BARTOW | P4 | PINELLAS | GT | NG | PL | DFO | WA | 8 | 6 / 1972 | --- / --- | 49 | 60 | 49 | 60 | OP |
| RIO PINAR | P1 | ORANGE | GT | DFO | TK | --- | --- | | 11 / 1970 | --- / --- | 13 | 16 | 13 | 16 | OP |
| SUWANNEE RIVER | 1 | SUWANNEE | ST | RFO | TK | NG | PL | 0 | 11 / 1953 | --- / --- | 34 | 35 | 32 | 33 | OP |
| SUWANNEE RIVER | 2 | SUWANNEE | ST | RFO | TK | NG | PL | 0 | 11 / 1954 | --- / --- | 33 | 34 | 31 | 32 | OP |
| SUWANNEE RIVER | 3 | SUWANNEE | ST | RFO | TK | NG | PL | 0 | 10 / 1956 | --- / --- | 84 | 85 | 80 | 81 | OP |
| SUWANNEE RIVER | P1 | SUWANNEE | GT | NG | PL | DFO | TK | 9 | 10 / 1980 | --- / --- | 55 | 67 | 55 | 67 | OP |
| SUWANNEE RIVER | P2 | SUWANNEE | GT | DFO | TK | --- | --- | 0 | 10 / 1980 | --- / --- | 54 | 67 | 54 | 67 | OP |
| SUWANNEE RIVER | P3 | SUWANNEE | GT | NG | PL | DFO | TK | 0 | 11 / 1980 | --- / --- | 55 | 67 | 55 | 67 | OP |
| TIGER BAY | 1GT | POLK | CT | NG | PL | --- | --- | 0 | 8 / 1997 | --- / --- | | | | | OP |
| TIGER BAY | 1ST | POLK | CA | WH | NA | --- | --- | 0 | 8 / 1997 | --- / --- | 209 | 226 | 207 | 223 | OP |
| UNIVERSITY OF FLORIDA | P1 | ALACHUA | GT | NG | PL | --- | --- | | 1 / 1994 | --- / --- | 35 | 41 | 35 | 41 | OP |
| | | | | | | | | | | | PEF TOTAL: | | 8,842 | 9,760 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| **REEDY CREEK IMPROVEMENT DISTRICT** | | | | | | | | | | | | | | | |
| CENTRAL ENERGY PLANT | 1 | ORANGE | CS | NG | PL | DFO | TK | 0 | 1 / 1989 | 1 / 2019 | 40 | 41 | 38 | 39 | OP |
| REEDY CREEK DIESEL | D1-D | ORANGE | IC | DFO | TK | --- | --- | 0 | 1 / 1983 | 1 / 2015 | 5 | 5 | 4.6 | 4.6 | OP |
| | | | | | | | | | | | **RCI TOTAL:** | | **43** | **44** | |
| **SEMINOLE ELECTRIC COOPERATIVE INC** | | | | | | | | | | | | | | | |
| CRYSTAL RIVER (885/898) * | 3 | CITRUS | ST | NUC | TK | --- | --- | | 3 / 1977 | --- / --- | 15 | 15.3 | 15 | 15 | OP |
| PAYNE CREEK | CT1A | HARDEE | CT | NG | PL | DFO | TK | 4 | 1 / 2002 | --- / --- | 162 | 187 | 157 | 183 | OP |
| PAYNE CREEK | CT1B | HARDEE | CT | NG | PL | DFO | TK | 4 | 1 / 2002 | --- / --- | 162 | 187 | 157 | 183 | OP |
| PAYNE CREEK | ST1 | HARDEE | CA | NG | PL | DFO | TK | 0 | 1 / 2002 | --- / --- | 178 | 181 | 174 | 175 | OP |
| SEMINOLE | 1 | PUTNAM | ST | BIT | RR | --- | --- | 0 | 2 / 1984 | --- / --- | 693 | 701 | 658 | 665 | OP |
| SEMINOLE | 2 | PUTNAM | ST | BIT | RR | --- | --- | 0 | 1 / 1985 | --- / --- | 693 | 701 | 658 | 665 | OP |
| | | | | | | | | | | | **SEC TOTAL:** | | **1,819** | **1,886** | |
| **ST CLOUD CITY OF** | | | | | | | | | | | | | | | |
| ST. CLOUD | 1 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 7 / 1982 | 10 / 2006 | 2 | 2 | 2 | 2 | OP |
| ST. CLOUD | 2 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 12 / 1974 | 10 / 2006 | 5 | 5 | 5 | 5 | OP |
| ST. CLOUD | 3 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 9 / 1982 | 10 / 2006 | 2 | 2 | 2 | 2 | OP |
| ST. CLOUD | 4 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 8 / 1961 | 10 / 2006 | 3 | 3 | 3 | 3 | OP |
| ST. CLOUD | 6 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 3 / 1967 | 10 / 2006 | 3 | 3 | 3 | 3 | OP |
| ST. CLOUD | 7 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 9 / 1982 | 10 / 2006 | 6 | 6 | 6 | 6 | OP |
| ST. CLOUD | 8 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 4 / 1977 | 10 / 2006 | 6 | 6 | 6 | 6 | SB |
| | | | | | | | | | | | **STC TOTAL:** | | **21** | **21** | |
| **TALLAHASSEE CITY OF** | | | | | | | | | | | | | | | |
| C. H. CORN HYDRO | 1 | LEON | HY | WAT | WA | WAT | WA | 0 | 9 / 1985 | --- / --- | 4 | 4 | 4 | 4 | OP |
| C. H. CORN HYDRO | 2 | GADSDEN | HY | WAT | WA | WAT | WA | 0 | 8 / 1985 | --- / --- | 4 | 4 | 4 | 4 | OP |
| C. H. CORN HYDRO | 3 | LEON | HY | WAT | WA | WAT | WA | 0 | 1 / 1986 | --- / --- | 3 | 3 | 3 | 3 | OP |
| HOPKINS | 1 | LEON | ST | NG | PL | RFO | TK | 1 | 5 / 1971 | 3 / 2016 | 81 | 85 | 76 | 78 | OP |
| HOPKINS | 2 | LEON | ST | NG | PL | RFO | TK | 1 | 10 / 1977 | 3 / 2022 | 238 | 248 | 228 | 238 | OP |
| HOPKINS | GT1 | LEON | GT | NG | PL | DFO | TK | 8 | 2 / 1970 | 3 / 2015 | 12 | 14 | 12 | 14 | OP |
| HOPKINS | GT2 | LEON | GT | NG | PL | DFO | TK | 8 | 9 / 1972 | 3 / 2017 | 24 | 26 | 24 | 26 | OP |
| HOPKINS | GT3 | LEON | GT | NG | PL | DFO | TK | 8 | 9 / 2005 | --- / --- | 49 | 49 | 46 | 48 | OP |
| HOPKINS | GT4 | LEON | GT | NG | PL | DFO | TK | 8 | 11 / 2005 | --- / --- | 49 | 49 | 46 | 48 | OP |
| PURDOM | GT1 | WAKULLA | GT | NG | PL | DFO | TK | 2 | 12 / 1963 | 3 / 2011 | 10 | 10 | 10 | 10 | OP |
| PURDOM | GT2 | WAKULLA | GT | NG | PL | DFO | TK | 2 | 5 / 1964 | 3 / 2011 | 10 | 10 | 10 | 10 | OP |
| PURDOM | 7 | WAKULLA | ST | NG | PL | RFO | WA | 1 | 6 / 1966 | 3 / 2011 | 51 | 53 | 48 | 50 | OP |
| PURDOM | 8 | WAKULLA | CC | NG | PL | DFO | TK | 2 | 7 / 2000 | 12 / 2040 | 237 | 266 | 233 | 262 | OP |
| | | | | | | | | | | | **TAL TOTAL:** | | **744** | **795** | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| **TAMPA ELECTRIC COMPANY** | | | | | | | | | | | | | | | |
| BAYSIDE | 1A | HILLSBOROUGH | CT | NG | PL | NA | NA | 0 | 4 / 2003 | --- / --- | 158 | 185 | 156 | 183 | OP |
| BAYSIDE | 1B | HILLSBOROUGH | CT | NG | PL | NA | NA | 0 | 4 / 2003 | --- / --- | 158 | 185 | 156 | 183 | OP |
| BAYSIDE | 1C | HILLSBOROUGH | CT | NG | PL | NA | NA | 0 | 4 / 2003 | --- / --- | 158 | 185 | 156 | 183 | OP |
| BAYSIDE | 1ST | HILLSBOROUGH | CA | WH | NA | NA | NA | 0 | 4 / 2003 | --- / --- | 236 | 246 | 234 | 244 | OP |
| BAYSIDE | 2A | HILLSBOROUGH | CT | NG | PL | NA | NA | 0 | 1 / 2004 | --- / --- | 158 | 185 | 156 | 183 | OP |
| BAYSIDE | 2B | HILLSBOROUGH | CT | NG | PL | NA | NA | 0 | 1 / 2004 | --- / --- | 158 | 185 | 156 | 183 | OP |
| BAYSIDE | 2C | HILLSBOROUGH | CT | NG | PL | NA | NA | 0 | 1 / 2004 | --- / --- | 158 | 185 | 156 | 183 | OP |
| BAYSIDE | 2D | HILLSBOROUGH | CT | NG | PL | NA | NA | 0 | 1 / 2004 | --- / --- | 158 | 185 | 156 | 183 | OP |
| BAYSIDE | 2ST | HILLSBOROUGH | CA | WH | NA | NA | NA | 0 | 1 / 2004 | --- / --- | 308 | 318 | 306 | 316 | OP |
| BIG BEND | 1 | HILLSBOROUGH | ST | BIT | WA | NA | NA | 0 | 10 / 1970 | --- / --- | 430 | 430 | 411 | 411 | OP |
| BIG BEND | 2 | HILLSBOROUGH | ST | BIT | WA | NA | NA | 0 | 4 / 1973 | --- / --- | 410 | 410 | 391 | 391 | OP |
| BIG BEND | 3 | HILLSBOROUGH | ST | BIT | WA | NA | NA | 0 | 5 / 1976 | --- / --- | 430 | 450 | 414 | 433 | OP |
| BIG BEND | 4 | HILLSBOROUGH | ST | BIT | WA | NA | NA | 0 | 2 / 1985 | --- / --- | 485 | 490 | 457 | 462 | OP |
| BIG BEND | GT1 | HILLSBOROUGH | GT | DFO | WA | NA | NA | 0 | 2 / 1969 | 1 / 2015 | 14 | 15 | 14 | 15 | OP |
| BIG BEND | GT2 | HILLSBOROUGH | GT | DFO | WA | NA | NA | 0 | 11 / 1974 | 1 / 2015 | 66 | 80 | 66 | 80 | OP |
| BIG BEND | GT3 | HILLSBOROUGH | GT | DFO | WA | NA | NA | 0 | 11 / 1974 | 1 / 2015 | 66 | 80 | 66 | 80 | OP |
| PARTNERSHIP STATION | 1 | HILLSBOROUGH | IC | NG | PL | NA | NA | 0 | 5 / 2001 | --- / --- | 3 | 3 | 3 | 3 | OP |
| PARTNERSHIP STATION | 2 | HILLSBOROUGH | IC | NG | PL | NA | NA | 0 | 5 / 2001 | --- / --- | 3 | 3 | 3 | 3 | OP |
| PHILLIPS | 1 | HIGHLANDS | IC | RFO | TK | DFO | TK | 0 | 6 / 1983 | --- / --- | 18 | 18.5 | 17 | 18 | OP |
| PHILLIPS | 2 | HIGHLANDS | IC | RFO | TK | DFO | TK | 0 | 6 / 1983 | --- / --- | 18 | 18.5 | 17 | 18 | OP |
| PHILLIPS | 3 | HIGHLANDS | CA | WH | NA | NA | NA | 0 | 6 / 1983 | --- / --- | 3 | 3 | 3 | 3 | SB |
| POLK | 2 | POLK | GT | NG | PL | DFO | TK | 168 | 7 / 2000 | --- / --- | 160 | 184 | 160 | 184 | OP |
| POLK | 3 | POLK | GT | NG | PL | DFO | TK | 168 | 5 / 2002 | --- / --- | 165 | 184 | 165 | 184 | OP |
| POLK | 1CA | POLK | CA | WH | NA | NA | NA | 0 | 9 / 1996 | --- / --- | 128 | 133 | 123 | 128 | OP |
| POLK | 1CT | POLK | CT | OG | WA | DFO | TK | 43 | 9 / 1996 | --- / --- | 192 | 192 | 132 | 132 | OP |
| | | | | | | | | | | | TEC TOTAL: | | 4,071 | 4,383 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.0
EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| US CORPS OF ENGINEERS - MOBILE | | | | | | | | | | | | | | | |
| JIM WOODRUFF | 1 | GADSDEN | HY | WAT | NA | NA | NA | 0 | 2 / 1957 | --- / --- | 14.5 | 14.5 | 14.5 | 14.5 | OP |
| JIM WOODRUFF | 2 | GADSDEN | HY | WAT | NA | NA | NA | 0 | 3 / 1957 | --- / --- | 14.5 | 14.5 | 14.5 | 14.5 | OP |
| JIM WOODRUFF | 3 | GADSDEN | HY | WAT | NA | NA | NA | 0 | 4 / 1957 | --- / --- | 14.5 | 14.5 | 14.5 | 14.5 | OP |
| | | | | | | | | | | | UCEM TOTAL: | | 44 | 44 | |
| VERO BEACH CITY OF | | | | | | | | | | | | | | | |
| MUNICIPAL PLANT | 1 | INDIAN RIVER | ST | NG | PL | RFO | TK | | 11 / 1961 | --- / --- | 13 | 13 | 13 | 13 | OP |
| MUNICIPAL PLANT | 2 | INDIAN RIVER | CA | NG | PL | RFO | TK | | 8 / 1964 | --- / --- | 13 | 13 | 13 | 13 | OP |
| MUNICIPAL PLANT | 3 | INDIAN RIVER | ST | NG | PL | RFO | TK | | 9 / 1971 | --- / --- | 33 | 33 | 33 | 33 | OP |
| MUNICIPAL PLANT | 4 | INDIAN RIVER | ST | NG | PL | RFO | TK | | 8 / 1976 | --- / --- | 56 | 56 | 56 | 56 | OP |
| MUNICIPAL PLANT | 5 | INDIAN RIVER | CT | NG | PL | DFO | TK | | 12 / 1992 | --- / --- | 35 | 40 | 35 | 40 | OP |
| | | | | | | | | | | | VER TOTAL: | | 150 | 155 | |
| | | | | | | | | | | TOTAL FRCC EXISTING: | | | 43,966 | 47,033 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.1
PLANNED AND PROSPECTIVE GENERATING FACILITY ADDITIONS AND CHANGES
(JANUARY 1, 2006 THROUGH DECEMBER 31, 2015)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UTILITY | POWER PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | PRIMARY FUEL TYPE | PRIMARY FUEL TRANS. | ALTERNATE FUEL TYPE | ALTERNATE FUEL TRANS. | ALT. FUEL STORAGE (DAYS BURN) | COMMERICAL IN-SERVICE OR RETIREMENT MO. / YEAR | GROSS CAPABILITY SUMMER (MW) | GROSS CAPABILITY WINTER (MW) | NET CAPABILITY SUMMER (MW) | NET CAPABILITY WINTER (MW) | STATUS |
| | 2006 | | | | | | | | | | | | | | |
| RCI | CENTRAL ENERGY PLANT | 1 | ORANGE | CC | NG | PL | DFO | TK | 0 | 2 / 2006 | 17 | 17 | 17 | 17 | A |
| PEF | UNIVERSITY OF FLORIDA | P1 | ALACHUA | GT | NG | PL | --- | --- | --- | 3 / 2006 | 10 | 7 | 10 | 7 | A |
| TEC | PHILLIPS | 3 | HIGHLANDS | CA | WH | NA | NA | NA | 0 | 3 / 2006 | -3 | -3 | -3 | -3 | RT |
| JEA | BRANDY BRANCH | 4 | DUVAL | CC | NG | PL | DFO | TK | 0 | 4 / 2006 | 13 | 13 | 13 | 13 | A |
| FPL | CAPE CANAVERAL | 1 | BREVARD | ST | RFO | WA | NG | PL | 0 | 6 / 2006 | 0 | 0 | -5 | -5 | D |
| FPL | CAPE CANAVERAL | 2 | BREVARD | ST | RFO | WA | NG | PL | 0 | 6 / 2006 | 0 | 0 | 8 | 7 | A |
| FPL | CUTLER | 5 | DADE | ST | NG | PL | NA | NA | 0 | 6 / 2006 | 0 | 0 | 3 | 3 | A |
| FPL | CUTLER | 6 | DADE | ST | NG | PL | NA | NA | 0 | 6 / 2006 | 28 | 28 | 33 | 33 | A |
| FPL | FT. MYERS | 1 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 10 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 11 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 12 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 2 | LEE | CA | NG | PL | NA | NA | 0 | 6 / 2006 | 0 | 8 | 0 | 8 | A |
| FPL | FT. MYERS | 2 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 3 | LEE | CT | NG | PL | DFO | TK | 0 | 6 / 2006 | 0 | 4 | 0 | 4 | A |
| FPL | FT. MYERS | 3 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 4 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 5 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 6 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 7 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 8 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | FT. MYERS | 9 | LEE | GT | DFO | WA | --- | --- | 0 | 6 / 2006 | 0 | 1.3 | 0 | 1.3 | A |
| FPL | MANATEE | 1 | MANATEE | ST | RFO | WA | NG | PL | 0 | 6 / 2006 | 0 | 0 | -6 | -6 | D |
| FPL | MANATEE | 2 | MANATEE | ST | RFO | WA | NG | PL | 0 | 6 / 2006 | 0 | 0 | -7 | -7 | D |
| FPL | MARTIN | 1 | MARTIN | ST | RFO | PL | NG | PL | 0 | 6 / 2006 | 0 | 0 | 6 | 6 | A |
| FPL | MARTIN | 3 | MARTIN | CC | NG | PL | NA | NA | 0 | 6 / 2006 | 22 | 18 | 22 | 24 | A |
| FPL | MARTIN | 4 | MARTIN | CC | NG | PL | NA | NA | 0 | 6 / 2006 | 16 | 18 | 22 | 24 | A |
| FPL | PORT EVERGLADES | ST1 | BROWARD | ST | RFO | PL | NG | PL | 0 | 6 / 2006 | 0 | 0 | -7 | 0 | D |
| FPL | PORT EVERGLADES | ST3 | BROWARD | ST | RFO | PL | NG | PL | 0 | 6 / 2006 | 16 | 8 | 8 | 8 | A |
| FPL | PORT EVERGLADES | ST4 | BROWARD | ST | RFO | PL | NG | PL | 0 | 6 / 2006 | 2 | 2 | 12 | 12 | A |
| FPL | PUTNAM | 1ST | PUTNAM | CA | NG | PL | DFO | WA | 0 | 6 / 2006 | 0 | 0 | 4 | 4 | A |
| FPL | RIVIERA | 3 | PALM BEACH | ST | RFO | WA | NG | PL | 0 | 6 / 2006 | 13 | 13 | 14 | 14 | A |
| FPL | SANFORD | 4 | VOLUSIA | CC | NG | PL | --- | --- | 0 | 6 / 2006 | 0 | 10 | 0 | 10 | A |
| FPL | SANFORD | 5 | VOLUSIA | CC | NG | PL | --- | --- | 0 | 6 / 2006 | 0 | 10 | 0 | 10 | A |
| FPL | ST. JOHNS RIVER | 2 | DUVAL | ST | BIT | RR | DFO | PL | 0 | 6 / 2006 | 21 | 17 | 22 | 18 | A |
| FPL | TURKEY POINT | 1 | DADE | ST | RFO | WA | NG | PL | 0 | 6 / 2006 | 12 | 21 | 13 | 22 | A |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.1
PLANNED AND PROSPECTIVE GENERATING FACILITY ADDITIONS AND CHANGES
(JANUARY 1, 2006 THROUGH DECEMBER 31, 2015)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UTILITY | POWER PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | PRIMARY FUEL TYPE | PRIMARY FUEL TRANS. | ALTERNATE FUEL TYPE | ALTERNATE FUEL TRANS. | ALT. FUEL STORAGE (DAYS BURN) | COMMERICAL IN-SERVICE OR RETIREMENT MO. / YEAR | GROSS CAPABILITY SUMMER (MW) | GROSS CAPABILITY WINTER (MW) | NET CAPABILITY SUMMER (MW) | NET CAPABILITY WINTER (MW) | STATUS |
| JEA | BRANDY BRANCH | 1 | DUVAL | GT | NG | PL | DFO | TK | 0 | 6 / 2006 | 3.8 | 4.1 | 3.8 | 4.1 | A |
| JEA | J. D. KENNEDY | GT7 | DUVAL | GT | NG | WA | DFO | WA | 0 | 6 / 2006 | 3.8 | 4.1 | 3.8 | 4.1 | A |
| JEA | NORTHSIDE | 1 | DUVAL | ST | PC | WA | DFO | WA | 0 | 6 / 2006 | 8.9 | 8.9 | 8.9 | 8.9 | A |
| FMPA | STOCK ISLAND | CT4 | MONROE | CT | DFO | WA | DFO | TK | 0 | 7 / 2006 | 48 | 48 | 42 | 42 | TS |
| STC | ST. CLOUD | 1 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 10 / 2006 | -2 | -2 | -2 | -2 | RT |
| STC | ST. CLOUD | 2 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 10 / 2006 | -5 | -5 | -5 | -5 | RT |
| STC | ST. CLOUD | 3 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 10 / 2006 | -2 | -2 | -2 | -2 | RT |
| STC | ST. CLOUD | 4 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 10 / 2006 | -3 | -3 | -3 | -3 | RT |
| STC | ST. CLOUD | 6 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 10 / 2006 | -3 | -3 | -3 | -3 | RT |
| STC | ST. CLOUD | 7 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 10 / 2006 | -6 | -6 | -6 | -6 | RT |
| STC | ST. CLOUD | 8 | OSCEOLA | IC | NG | PL | DFO | TK | 5 | 10 / 2006 | -6 | -6 | -6 | -6 | RT |
| SEC | PAYNE CREEK | 4 | HARDEE | GT | NG | PL | DFO | TK | 0 | 11 / 2006 | 54 | 62 | 54 | 62 | V |
| SEC | PAYNE CREEK | 5 | HARDEE | GT | NG | PL | DFO | TK | 0 | 11 / 2006 | 54 | 62 | 54 | 62 | V |
| SEC | PAYNE CREEK | 6 | HARDEE | GT | NG | PL | DFO | TK | 0 | 11 / 2006 | 54 | 62 | 54 | 62 | V |
| SEC | PAYNE CREEK | 7 | HARDEE | GT | NG | PL | DFO | TK | 0 | 11 / 2006 | 54 | 62 | 54 | 62 | V |
| SEC | PAYNE CREEK | 8 | HARDEE | GT | NG | PL | DFO | TK | 0 | 11 / 2006 | 54 | 62 | 54 | 62 | V |
| JEA | NORTHSIDE | 2 | DUVAL | ST | PC | WA | DFO | WA | 0 | 12 / 2006 | 9 | 9 | 8.9 | 8.9 | A |
| | | | | | | | | | | | 2006 TOTAL: | | 498 | 599 | |
| | 2007 | | | | | | | | | | | | | | |
| TEC | POLK | 4 | POLK | GT | NG | PL | NA | NA | 0 | 5 / 2007 | 160 | 180 | 160 | 180 | T |
| FPL | MANATEE | 1 | MANATEE | ST | RFO | WA | NG | PL | 0 | 6 / 2007 | 0 | 0 | 15 | 15 | A |
| FPL | MANATEE | 2 | MANATEE | ST | RFO | WA | NG | PL | 0 | 6 / 2007 | 0 | 0 | 16 | 16 | A |
| FPL | MARTIN | 2 | MARTIN | ST | RFO | WA | NG | PL | 0 | 6 / 2007 | 0 | 0 | 19 | 7 | A |
| FPL | PORT EVERGLADES | ST3 | BROWARD | ST | RFO | WA | NG | PL | 0 | 6 / 2007 | 0 | 0 | 8 | 8 | A |
| FPL | SCHERER | 4 | UNKNOWN | ST | BIT | RR | NA | NA | 0 | 6 / 2007 | 18 | 23 | 19 | 24 | A |
| FPL | TURKEY POINT | 5 | DADE | CC | NG | PL | --- | --- | 0 | 6 / 2007 | 1144 | 1181 | 1144 | 1181 | U |
| TEC | POLK | 5 | POLK | GT | NG | PL | NA | NA | 0 | 7 / 2007 | 160 | 180 | 160 | 180 | T |
| PEF | HINES ENERGY COMPLEX | 4 | POLK | CC | NG | PL | DFO | TK | 0 | 12 / 2007 | 461 | 517 | 461 | 517 | U |
| | | | | | | | | | | | 2007 TOTAL: | | 2,002 | 2,128 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.1
PLANNED AND PROSPECTIVE GENERATING FACILITY ADDITIONS AND CHANGES
(JANUARY 1, 2006 THROUGH DECEMBER 31, 2015)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UTILITY | POWER PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | PRIMARY FUEL TYPE | PRIMARY FUEL TRANS. | ALTERNATE FUEL TYPE | ALTERNATE FUEL TRANS. | ALT. FUEL STORAGE (DAYS BURN) | COMMERICAL IN-SERVICE OR RETIREMENT MO. / YEAR | GROSS CAPABILITY SUMMER (MW) | GROSS CAPABILITY WINTER (MW) | NET CAPABILITY SUMMER (MW) | NET CAPABILITY WINTER (MW) | STATUS |
| | **2008** | | | | | | | | | | | | | | |
| TAL | HOPKINS | 2 | LEON | ST | NG | PL | RFO | TK | 0 | 5 / 2008 | -91 | -90 | -88 | -88 | RP |
| TAL | HOPKINS | 5 | LEON | CT | NG | PL | DFO | TK | 0 | 5 / 2008 | 157 | 184 | 156 | 183 | RP |
| FMPA | TCEC | 1 | ST LUCIE | CA | WH | NA | NA | NA | 0 | 6 / 2008 | 150 | 150 | 140 | 150 | U |
| FMPA | TCEC | 1 | ST LUCIE | CT | NG | PL | DFO | TK | 0 | 6 / 2008 | 165 | 168 | 156 | 168 | U |
| FPL | CAPE CANAVERAL | 1 | BREVARD | ST | RFO | WA | NG | PL | 0 | 6 / 2008 | 0 | 0 | 4 | 3 | A |
| FPL | PORT EVERGLADES | ST1 | BROWARD | ST | RFO | WA | NG | PL | 0 | 6 / 2008 | 0 | 0 | 8 | 1 | A |
| FPL | UNSITED CT | 6A | BROWARD | CT | NG | PL | DFO | TK | 0 | 6 / 2008 | 160 | 181 | 160 | 181 | P |
| GRU | DEERHAVEN | FS02 | ALACHUA | ST | BIT | RR | --- | --- | 0 | 10 / 2008 | 0 | 0 | -0.5 | -0.5 | D |
| JEA | GREENFIELD | 1 | DUVAL | GT | NG | PL | DFO | TK | 0 | 12 / 2008 | 160.1 | 192.7 | 158.6 | 191.2 | P |
| PEF | BARTOW CT | 5 | PINELLAS | GT | NG | PL | DFO | TK | 0 | 12 / 2008 | 322 | 382 | 322 | 382 | P |
| | | | | | | | | | | | **2008 TOTAL:** | | **1,016** | **1,171** | |
| | **2009** | | | | | | | | | | | | | | |
| JEA | J. D. KENNEDY | GT3 | DUVAL | GT | DFO | WA | --- | --- | 0 | 1 / 2009 | -51.3 | -63 | -51 | -62.7 | OS |
| SEC | SEMINOLE | 1 | PUTNAM | ST | BIT | RR | --- | --- | 0 | 1 / 2009 | 7 | 7 | 7 | 7 | A |
| SEC | SEMINOLE | 2 | PUTNAM | ST | BIT | RR | --- | --- | --- | 1 / 2009 | 9 | 9 | 9 | 9 | A |
| TEC | FUTURE | CT1 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 1 / 2009 | 88 | 97 | 88 | 97 | P |
| TEC | FUTURE | CT2 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 1 / 2009 | 88 | 97 | 88 | 97 | P |
| TEC | FUTURE | CT3 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 1 / 2009 | 88 | 97 | 88 | 97 | P |
| TEC | FUTURE | CT4 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 1 / 2009 | 88 | 97 | 88 | 97 | P |
| PEF | CRYSTAL RIVER | 5 | CITRUS | ST | BIT | WA | --- | --- | --- | 4 / 2009 | -22 | -22 | -22 | -22 | D |
| FPL | WEST COUNTY | 1 | PALM BEACH | CC | NG | PL | DFO | TK | 0 | 6 / 2009 | 1219 | 1335 | 1219 | 1335 | P |
| PEF | BARTOW CC | 1 | PINELLAS | CC | NG | PL | DFO | TK | 0 | 6 / 2009 | 1159 | 1279 | 1159 | 1279 | P |
| PEF | BARTOW CT | 5 | PINELLAS | GT | NG | PL | DFO | TK | 0 | 6 / 2009 | -322 | -382 | -322 | -382 | RP |
| PEF | P. L. BARTOW | 1 | PINELLAS | ST | RFO | WA | --- | --- | 0 | 6 / 2009 | -128 | -130 | -121 | -123 | RP |
| PEF | P. L. BARTOW | 2 | PINELLAS | ST | RFO | WA | --- | --- | 0 | 6 / 2009 | -125 | -127 | -119 | -121 | RP |
| PEF | P. L. BARTOW | 3 | PINELLAS | ST | RFO | WA | NG | PL | 0 | 6 / 2009 | -211 | -215 | -204 | -208 | RP |
| GRU | DEERHAVEN | FS02 | ALACHUA | ST | BIT | RR | --- | --- | 0 | 10 / 2009 | 0 | 0 | -2.5 | -2.5 | D |
| PEF | CRYSTAL RIVER | 4 | CITRUS | ST | BIT | WA | --- | --- | --- | 11 / 2009 | -22 | -22 | -22 | -22 | D |
| GRU | SOUTH WEST LANDFILL | LF1-3 | ALACHUA | IC | LFG | PL | NA | NA | 0 | 12 / 2009 | -0.7 | -0.7 | -0.7 | -0.7 | D |
| JEA | GREENFIELD | 2 | DUVAL | GT | NG | PL | DFO | TK | 0 | 12 / 2009 | 160.1 | 192.7 | 158.6 | 191.2 | P |
| | | | | | | | | | | | ***2009 TOTAL:*** | | ***2,040*** | ***2,265*** | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL
# FRCC Form 1.1
# PLANNED AND PROSPECTIVE GENERATING FACILITY ADDITIONS AND CHANGES
# (JANUARY 1, 2006 THROUGH DECEMBER 31, 2015)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UTILITY | POWER PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | PRIMARY FUEL TYPE | PRIMARY FUEL TRANS. | ALTERNATE FUEL TYPE | ALTERNATE FUEL TRANS. | ALT. FUEL STORAGE (DAYS BURN) | COMMERICAL IN-SERVICE OR RETIREMENT MO. / YEAR | GROSS CAPABILITY SUMMER (MW) | GROSS CAPABILITY WINTER (MW) | NET CAPABILITY SUMMER (MW) | NET CAPABILITY WINTER (MW) | STATUS |
| | **2010** | | | | | | | | | | | | | | |
| TEC | FUTURE | CT5 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 1 / 2010 | 88 | 97 | 88 | 97 | P |
| TEC | FUTURE | CT6 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 1 / 2010 | 88 | 97 | 88 | 97 | P |
| FMPA | UNSITED CT | CT1 | PALM BEACH | CT | NG | PL | DFO | TK | 0 | 6 / 2010 | 42 | 49 | 42 | 49 | P |
| FMPA | UNSITED CT | CT2 | PALM BEACH | CT | NG | PL | DFO | TK | 0 | 6 / 2010 | 42 | 49 | 42 | 49 | P |
| FPL | WEST COUNTY | 2 | PALM BEACH | CC | NG | PL | DFO | TK | 0 | 6 / 2010 | 1219 | 1335 | 1219 | 1335 | P |
| OUC | STANTON | B | ORANGE | OT | SUB | RR | NG | PL | 0 | 6 / 2010 | 256 | 283 | 256 | 283 | P |
| PEF | COMBUSTION TURBINE | 1 | UNKNOWN | GT | NG | PL | DFO | TK | 0 | 6 / 2010 | 161 | 191 | 161 | 191 | P |
| JEA | GREENFIELD | 3 | DUVAL | GT | NG | PL | DFO | TK | 0 | 12 / 2010 | 160.1 | 192.7 | 158.6 | 191.2 | P |
| | | | | | | | | | | **2010 TOTAL:** | | | **2,055** | **2,292** | |
| | **2011** | | | | | | | | | | | | | | |
| TAL | PURDOM | 7 | WAKULLA | ST | NG | PL | RFO | TK | 19 | 3 / 2011 | -51 | -53 | -48 | -50 | RT |
| TAL | PURDOM | GT1 | WAKULLA | GT | NG | PL | DFO | TK | 1 | 3 / 2011 | -10 | -10 | -10 | -10 | RT |
| TAL | PURDOM | GT2 | WAKULLA | GT | NG | PL | DFO | TK | 1 | 3 / 2011 | -10 | -10 | -10 | -10 | RT |
| TAL | COMBUSTION TURBINE | A | UNKNOWN | CT | NG | PL | DFO | TK | 0 | 5 / 2011 | 49 | 49 | 46 | 48 | P |
| TEC | FUTURE | CT7 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 5 / 2011 | 88 | 97 | 88 | 97 | P |
| FPL | UNSITED CT | 1 | UNKNOWN | CT | NG | PL | DFO | TK | 0 | 6 / 2011 | 320 | 362 | 320 | 362 | P |
| PEF | COMBINED CYCLE | 1 | UNKNOWN | CC | NG | PL | DFO | UN | 0 | 6 / 2011 | 478 | 550 | 478 | 550 | P |
| GRU | J. R. KELLY | FS07 | ALACHUA | ST | NG | PL | RFO | TK | 0 | 8 / 2011 | -24 | -24 | -23.2 | -23.2 | RT |
| | | | | | | | | | | **2011 TOTAL:** | | | **841** | **964** | |
| | **2012** | | | | | | | | | | | | | | |
| SEC | SEMINOLE | 3 | PUTNAM | ST | BIT | RR | --- | --- | 0 | 5 / 2012 | --- | --- | 750 | 750 | P |
| TEC | FUTURE | CT8 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 5 / 2012 | 88 | 97 | 88 | 97 | P |
| TEC | FUTURE | CT9 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 5 / 2012 | 88 | 97 | 88 | 97 | P |
| PEF | COMBUSTION TURBINE | 2 | UNKNOWN | GT | NG | PL | DFO | TK | 0 | 6 / 2012 | 161 | 191 | 161 | 191 | P |
| FPL | CLEAN COAL | 1 | UNKNOWN | ST | BIT | RR | --- | --- | 0 | 6 / 2012 | 850 | 855 | 850 | 855 | P |
| FMPA | TAYLOR ENERGY CENTER (819/819) * | 1 | TAYLOR | ST | BIT | RR | BIT | --- | 0 | 6 / 2012 | 288 | 288 | 288 | 288 | L |
| JEA | TAYLOR ENERGY CENTER (819/819) * | 1 | TAYLOR | ST | BIT | RR | PC | --- | 0 | 6 / 2012 | 236 | 236 | 236 | 236 | P |
| ? | TAYLOR ENERGY CENTER (819/819) * | 1 | TAYLOR | ST | BIT | RR | --- | --- | 0 | 6 / 2012 | 295 | 295 | 230 | 231 | P |
| | | | | | | | | | | **2012 TOTAL:** | | | **2,691** | **2,745** | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL
FRCC Form 1.1
PLANNED AND PROSPECTIVE GENERATING FACILITY ADDITIONS AND CHANGES
(JANUARY 1, 2006 THROUGH DECEMBER 31, 2015)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UTILITY | POWER PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | PRIMARY FUEL TYPE | PRIMARY FUEL TRANS. | ALTERNATE FUEL TYPE | ALTERNATE FUEL TRANS. | ALT. FUEL STORAGE (DAYS BURN) | COMMERICAL IN-SERVICE OR RETIREMENT MO. / YEAR | GROSS CAPABILITY SUMMER (MW) | GROSS CAPABILITY WINTER (MW) | NET CAPABILITY SUMMER (MW) | NET CAPABILITY WINTER (MW) | STATUS |
| | 2013 | | | | | | | | | | | | | | |
| TEC | FUTURE | IGCC1 | UNKNOWN | CA | BIT | RR | NG | PL | 0 | 1 / 2013 | 605 | 630 | 605 | 630 | P |
| FPL | UNSITED CLEAN COAL | 2 | UNKNOWN | ST | BIT | RR | --- | --- | 0 | 6 / 2013 | 650 | 655 | 650 | 655 | P |
| GRU | DEERHAVEN | 3 | ALACHUA | ST | BIT | RR | PC | RR | 60 | 6 / 2013 | 244 | 244 | 220 | 220 | P |
| PEF | P-COAL, SUPERCRITICAL | 1 | UNKNOWN | ST | BIT | RR | --- | --- | 0 | 6 / 2013 | 750 | 750 | 750 | 750 | P |
| JEA | GREENFIELD | 5 | DUVAL | ST | PC | WA | SUB | --- | 0 | 12 / 2013 | 250 | 250 | 250 | 250 | P |
| | | | | | | | | | | 2013 TOTAL: | | | 2,675 | 2,705 | |
| | 2014 | | | | | | | | | | | | | | |
| TAL | COMBUSTION TURBINE | B | UNKNOWN | CT | NG | PL | DFO | TK | 0 | 5 / 2014 | 49 | 49 | 46 | 48 | P |
| FMPA | UNSITED CC | 4 | UNKNOWN | CC | NG | PL | DFO | TK | 0 | 6 / 2014 | 296 | 318 | 296 | 318 | P |
| FPL | UNSITED CT | 1 | UNKNOWN | CT | NG | PL | --- | --- | 0 | 6 / 2014 | 160 | 181 | 160 | 181 | P |
| PEF | P-COAL, SUPERCRITICAL | 2 | UNKNOWN | ST | BIT | RR | --- | --- | 0 | 6 / 2014 | 750 | 750 | 750 | 750 | P |
| | | | | | | | | | | 2014 TOTAL: | | | 1,252 | 1,297 | |
| | 2015 | | | | | | | | | | | | | | |
| TEC | BIG BEND | GT1 | HILLSBOROUGH | GT | DFO | WA | NA | NA | --- | 1 / 2015 | -14 | -15 | -14 | -15 | RT |
| TEC | BIG BEND | GT2 | HILLSBOROUGH | GT | DFO | WA | NA | NA | --- | 1 / 2015 | -66 | -80 | -66 | -80 | RT |
| TEC | BIG BEND | GT3 | HILLSBOROUGH | GT | DFO | WA | NA | NA | --- | 1 / 2015 | -66 | -80 | -66 | -80 | RT |
| TEC | FUTURE | CT10 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 1 / 2015 | 88 | 97 | 88 | 97 | P |
| TAL | HOPKINS | GT1 | LEON | GT | NG | PL | DFO | TK | --- | 3 / 2015 | -12 | -14 | -12 | -14 | RT |
| TEC | FUTURE | CT11 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 5 / 2015 | 88 | 97 | 88 | 97 | P |
| TEC | FUTURE | CT12 | UNKNOWN | GT | NG | PL | NA | NA | 0 | 5 / 2015 | 88 | 97 | 88 | 97 | P |
| FPL | UNSITED CC | 5 | MARTIN | CC | NG | PL | DFO | TK | 0 | 6 / 2015 | 553 | 610 | 553 | 610 | P |
| FPL | UNSITED CT | 2 | UNKNOWN | CT | NG | PL | --- | --- | 0 | 6 / 2015 | 160 | 181 | 160 | 181 | P |
| PEF | COMBINED CYCLE | 2 | UNKNOWN | CC | NG | PL | DFO | UN | 0 | 6 / 2015 | 478 | 550 | 478 | 550 | P |
| GRU | SOUTHWEST LANDFILL | LF1-3 | ALACHUA | IC | LFG | PL | NA | NA | 0 | 12 / 2015 | -0.7 | -0.7 | -0.7 | -0.7 | RT |
| JEA | GREENFIELD | 6 | DUVAL | ST | PC | UN | SUB | --- | 0 | 12 / 2015 | 250 | 250 | 250 | 250 | P |
| | | | | | | | | | | 2015 TOTAL: | | | 1,546 | 1,692 | |
| | | | | | | | | | | FRCC FUTURE TOTAL: | | | 16,617 | 17,858 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 10
### SUMMARY OF CAPACITY, DEMAND, AND RESERVE MARGIN AT TIME OF SUMMER PEAK

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | NET | PROJECTED | | | RESERVE MARGIN W/O EXERCISING LOAD MANAGEMENT & INT. | | | RESERVE MARGIN WITH EXERCISING LOAD MANAGEMENT & INT. | |
| YEAR | INSTALLED CAPACITY (MW) | CONTRACTED FIRM INTERCHANGE (MW) | FIRM NET TO GRID NUG + MERCH (MW) | TOTAL AVAILABLE CAPACITY (MW) | TOTAL PEAK DEMAND (MW) | (MW) | % OF PEAK | FIRM PEAK DEMAND (MW) | (MW) | % OF PEAK |
| 2006 | 44,207 | 1,552 | 5,498 | 51,257 | 45,520 | 5,737 | 13% | 42,761 | 8,496 | 20% |
| 2007 | 46,006 | 1,552 | 5,272 | 52,830 | 46,725 | 6,105 | 13% | 43,778 | 9,052 | 21% |
| 2008 | 47,003 | 1,552 | 5,379 | 53,934 | 48,030 | 5,904 | 12% | 45,029 | 8,905 | 20% |
| 2009 | 49,390 | 1,552 | 5,528 | 56,470 | 49,233 | 7,237 | 15% | 46,210 | 10,260 | 22% |
| 2010 | 51,419 | 1,342 | 4,818 | 57,579 | 50,221 | 7,358 | 15% | 47,215 | 10,364 | 22% |
| 2011 | 52,419 | 1,342 | 4,611 | 58,371 | 51,343 | 7,028 | 14% | 48,318 | 10,053 | 21% |
| 2012 | 55,110 | 1,342 | 4,530 | 60,982 | 52,490 | 8,492 | 16% | 49,442 | 11,540 | 23% |
| 2013 | 57,535 | 1,342 | 3,876 | 62,753 | 53,686 | 9,067 | 17% | 50,611 | 12,142 | 24% |
| 2014 | 59,037 | 1,342 | 3,841 | 64,220 | 54,830 | 9,390 | 17% | 51,726 | 12,494 | 24% |
| 2015 | 60,334 | 1,342 | 4,169 | 65,845 | 56,130 | 9,715 | 17% | 53,018 | 12,827 | 24% |

### SUMMARY OF CAPACITY, DEMAND, AND RESERVE MARGIN AT TIME OF WINTER PEAK

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | NET | PROJECTED | | | RESERVE MARGIN W/O EXERCISING LOAD MANAGEMENT & INT. | | | RESERVE MARGIN WITH EXERCISING LOAD MANAGEMENT & INT. | |
| YEAR | INSTALLED CAPACITY (MW) | CONTRACTED FIRM INTERCHANGE (MW) | FIRM NET TO GRID NUG + MERCH (MW) | TOTAL AVAILABLE CAPACITY (MW) | TOTAL PEAK DEMAND (MW) | (MW) | % OF PEAK | FIRM PEAK DEMAND (MW) | (MW) | % OF PEAK |
| 2006 / 07 | 47,631 | 1,552 | 5,494 | 54,678 | 48,296 | 6,382 | 13% | 44,792 | 9,886 | 22% |
| 2007 / 08 | 49,759 | 1,552 | 5,899 | 57,211 | 49,464 | 7,747 | 16% | 45,905 | 11,306 | 25% |
| 2008 / 09 | 51,271 | 1,552 | 5,707 | 58,531 | 50,732 | 7,799 | 15% | 47,127 | 11,404 | 24% |
| 2009 / 10 | 53,389 | 1,552 | 5,177 | 60,119 | 51,678 | 8,441 | 16% | 48,088 | 12,031 | 25% |
| 2010 / 11 | 55,418 | 1,342 | 5,159 | 61,919 | 52,869 | 9,050 | 17% | 49,257 | 12,662 | 26% |
| 2011 / 12 | 56,451 | 1,412 | 5,080 | 62,943 | 53,923 | 9,020 | 17% | 50,288 | 12,655 | 25% |
| 2012 / 13 | 59,826 | 1,342 | 4,273 | 65,441 | 55,086 | 10,355 | 19% | 51,420 | 14,021 | 27% |
| 2013 / 14 | 61,901 | 1,342 | 4,669 | 67,912 | 56,271 | 11,641 | 21% | 52,571 | 15,341 | 29% |
| 2014 / 15 | 63,106 | 1,342 | 4,378 | 68,826 | 57,674 | 11,152 | 19% | 53,940 | 14,886 | 28% |
| 2015 / 16 | 64,891 | 930 | 4,273 | 70,093 | 59,162 | 10,931 | 18% | 55,432 | 14,661 | 26% |

NOTE: COLUMN 9: "FIRM PEAK DEMAND" = TOTAL PEAK DEMAND - INTERRUPTIBLE LOAD - LOAD MANAGEMENT.

# 2006
# FRCC Form 11
# CONTRACTED FIRM IMPORTS AND FIRM EXPORTS
# FROM/TO OUTSIDE THE FRCC REGION AT TIME OF PEAK (MW)
# AS OF JANUARY 1, 2006

## SUMMER

| | IMPORTS | | | | | | EXPORTS | | | | | | NET INTER- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | FPL | PEF | JEA | ____ | ____ | TOTAL | ____ | ____ | ____ | ____ | ____ | TOTAL | CHANGE |
| 2006 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2007 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2008 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2009 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2010 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2011 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2012 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2013 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2014 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2015 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |

## WINTER

| | IMPORTS | | | | | | EXPORTS | | | | | | NET INTER- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | FPL | PEF | JEA | ____ | ____ | TOTAL | ____ | ____ | ____ | ____ | ____ | TOTAL | CHANGE |
| 2006/07 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2007/08 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2008/09 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2009/10 | 931 | 414 | 207 | | | 1,552 | | | | | | 0 | 1,552 |
| 2010/11 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2011/12 | 930 | 412 | 70 | | | 1,412 | | | | | | 0 | 1,412 |
| 2012/13 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2013/14 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2014/15 | 930 | 412 | 0 | | | 1,342 | | | | | | 0 | 1,342 |
| 2015/16 | 930 | 0 | 0 | | | 930 | | | | | | 0 | 930 |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

FRCC Form 3.0
EXISTING NON-UTILITY, QF, AND SELF SERVICE GENERATION FACILITIES
AS OF DECEMBER 31, 2005

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | | |
| | | | | FIRM | | UNCOMMITTED | | | | | | | | | COMMERCIAL | |
| UTILITY | FACILITY NAME | UNIT NO. | LOCATION | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | FUEL TYPE PRI | FUEL TYPE ALT | IN-SERVICE MO. / YEAR | STATUS |
| **FLORIDA MUNICIPAL POWER AGENCY** | | | | | | | | | | | | | | | | |
| | CUTRALE | | LAKE | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 4.6 | 4.6 | 4.6 | CC | NG | --- | 12 / 1987 | NC |
| | US SUGAR CORPORATION | | HENDRY | 0.0 | 0.0 | 0.0 | 0.0 | 26.5 | 26.5 | 26.5 | 26.5 | OT | OBS | --- | 2 / 1984 | NC |
| | | | **FMPA TOTAL:** | **0.0** | **0.0** | **0.0** | **0.0** | | | | | | | | | |
| **FLORIDA POWER & LIGHT COMPANY** | | | | | | | | | | | | | | | | |
| | BROWARD-NORTH | 1a | BROWARD | 45.0 | 45.0 | --- | --- | 62 | 62 | 56 | 56 | OT | MSW | --- | 4 / 1992 | C |
| | BROWARD-NORTH | 1b | BROWARD | 7.0 | 7.0 | --- | --- | 62 | 62 | 56 | 56 | OT | MSW | --- | 1 / 1993 | C |
| | BROWARD-NORTH | 1c | BROWARD | 1.5 | 1.5 | --- | --- | 62 | 62 | 56 | 56 | OT | MSW | --- | 1 / 1995 | C |
| | BROWARD-NORTH | 1d | BROWARD | 2.5 | 2.5 | --- | --- | 62 | 62 | 56 | 56 | OT | MSW | --- | 1 / 1997 | C |
| | BROWARD-SOUTH | 1a | BROWARD | 50.6 | 50.6 | --- | --- | 68 | 68 | 61 | 61 | OT | MSW | --- | 4 / 1991 | C |
| | BROWARD-SOUTH | 1b | BROWARD | 1.4 | 1.4 | --- | --- | 68 | 68 | 61 | 61 | OT | MSW | --- | 1 / 1993 | C |
| | BROWARD-SOUTH | 1c | BROWARD | 1.5 | 1.5 | --- | --- | 68 | 68 | 61 | 61 | OT | MSW | --- | 1 / 1995 | C |
| | BROWARD-SOUTH | 1d | BROWARD | 0.6 | 0.6 | --- | --- | 68 | 68 | 61 | 61 | OT | MSW | --- | 1 / 1995 | C |
| | CEDAR BAY | 1 | DUVAL | 250.0 | 250.0 | --- | --- | 250 | 250 | 250 | 250 | OT | BIT | --- | 1 / 1994 | C |
| | GEORGIA PACIFIC | 1 | PUTNAM | --- | --- | 14.0 | 15.0 | 52 | 52 | 52 | 52 | OT | WDS | --- | 2 / 1983 | NC |
| | INDIANTOWN | 1 | MARTIN | 330.0 | 330.0 | --- | --- | 330 | 330 | 330 | 330 | OT | BIT | --- | 12 / 1995 | C |
| | OKEELANTA | 1 | PALM BEACH | --- | --- | 70.0 | 69.0 | 70 | 70 | 70 | 70 | OT | OBS | NG | 11 / 1995 | NC |
| | PALM BEACH COUNTY | 1 | PALM BEACH | 47.5 | 47.5 | --- | --- | 56 | 56 | 47.5 | 47.5 | OT | MSW | --- | 1 / 2005 | C |
| | TOMOKA FARMS | 1 | VOLUSIA | --- | --- | 4.0 | 4.0 | 3.8 | 3.8 | 3.8 | 3.8 | OT | OTH | --- | 7 / 1998 | NC |
| | US SUGAR-BRYANT | 1 | PALM BEACH | --- | --- | 9.0 | 8.0 | 20 | 20 | 20 | 20 | OT | OBS | --- | 2 / 1980 | NC |
| | | | **FPL TOTAL:** | **737.6** | **737.6** | **97.0** | **96.0** | | | | | | | | | |
| **JEA** | | | | | | | | | | | | | | | | |
| | ANHEUSER BUSCH | | DUVAL | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | 8 | 9 | ST | NG | --- | 4 / 1988 | C |
| | BAPTIST HOSPITAL | | DUVAL | 0.0 | 0.0 | 0.0 | 1.0 | --- | --- | 7 | 8 | ST | NG | --- | 10 / 1982 | C |
| | RING POWER LANDFILL | | DUVAL | 0.0 | 0.0 | 1.0 | 1.0 | --- | --- | 1 | 1 | ST | NG | --- | 4 / 1992 | C |
| | ST. VINCENTS HOSPITAL | | DUVAL | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | 1 | 1 | ST | NG | --- | 12 / 1991 | C |
| | | | **JEA TOTAL:** | **0.0** | **0.0** | **1.0** | **2.0** | | | | | | | | | |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

FRCC Form 3.0
EXISTING NON-UTILITY, QF, AND SELF SERVICE GENERATION FACILITIES
AS OF DECEMBER 31, 2005

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | | |
| | | | | FIRM | | UNCOMMITTED | | | | | | | FUEL TYPE | | COMMERCIAL IN-SERVICE | |
| UTILITY | FACILITY NAME | UNIT NO. | LOCATION | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | PRI | ALT | MO. / YEAR | STATUS |
| **PROGRESS ENERGY FLORIDA** | | | | | | | | | | | | | | | | |
| | BAY COUNTY RES. RECOV. | 1 | BAY | 11.0 | 11.0 | 0.0 | 0.0 | 11 | 11 | 11 | 11 | ST | MSW | --- | 4 / 1988 | C |
| | BEN HILL GRIFFIN | 1 | POLK | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | ST | NG | DFO | 11 / 1981 | NC |
| | CARGILL | 1-2 | POLK | 15.0 | 15.0 | 0.0 | 0.0 | 15 | 15 | 15 | 15 | ST | WH | NG | 10 / 1992 | C |
| | CITRUS WORLD | 1 | POLK | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 | ST | NG | DFO | 11 / 1979 | NC |
| | CITRUS WORLD | 4 | POLK | 0.0 | 0.0 | 0.0 | 0.0 | 4 | 4 | 4 | 4 | ST | NG | DFO | 12 / 1987 | NC |
| | DADE COUNTY RES. RECOV. | 1 | DADE | 43.0 | 43.0 | 0.0 | 0.0 | 43 | 43 | 43 | 43 | ST | MSW | --- | 11 / 1991 | C |
| | EL DORADO | 1-2 | POLK | 114.2 | 114.2 | 18.8 | 18.8 | 133 | 133 | 133 | 133 | CA | NG | DFO | 7 / 1994 | C |
| | JEFFERSON POWER | 1 | JEFFERSON | 2.0 | 2.0 | 6.0 | 6.0 | 9.4 | 9.4 | 8 | 8 | ST | WDS | --- | 7 / 2002 | NC |
| | LAKE COGEN | 1 | LAKE | 110.0 | 110.0 | 0.0 | 0.0 | 111 | 111 | 110 | 110 | CA | NG | DFO | 7 / 1993 | C |
| | LAKE COUNTY RES. RECOV. | 1 | LAKE | 12.8 | 12.8 | 0.0 | 0.0 | 14.8 | 14.8 | 12.8 | 12.8 | ST | MSW | --- | 9 / 1990 | C |
| | LFC JEFFERSON | 1 | POLK | 8.5 | 8.5 | 0.0 | 0.0 | 8.5 | 8.5 | 8.5 | 8.5 | CA | NG | DFO | 6 / 1990 | C |
| | LFC MADISON | 1 | POLK | 8.5 | 8.5 | 0.0 | 0.0 | 8.5 | 8.5 | 8.5 | 8.5 | CA | NG | DFO | 9 / 1989 | C |
| | MULBERRY | 1 | POLK | 79.2 | 79.2 | 0.0 | 0.0 | 80.2 | 80.2 | 79.2 | 79.2 | CA | NG | DFO | 7 / 1994 | C |
| | ORANGE COGEN (CFR-BIOGEN) | 1 | POLK | 74.0 | 74.0 | 0.0 | 0.0 | 98 | 98 | 97 | 97 | CA | NG | --- | 6 / 1995 | C |
| | ORLANDO COGEN | 1 | ORANGE | 79.2 | 79.2 | 0.0 | 0.0 | 115.2 | 115.2 | 114.2 | 114.2 | CA | NG | --- | 10 / 1993 | C |
| | PASCO COGEN | 1-3 | PASCO | 109.0 | 109.0 | 0.0 | 0.0 | 110 | 110 | 109 | 109 | CA | NG | DFO | 7 / 1993 | C |
| | PASCO COUNTY RES. RECOV. | 1 | PASCO | 23.0 | 23.0 | 0.0 | 0.0 | 26 | 26 | 23 | 23 | ST | MSW | --- | 3 / 1991 | C |
| | PINELLAS COUNTY RES. RECOV. | 1 | PINELLAS | 40.0 | 40.0 | 0.0 | 0.0 | 44.6 | 44.6 | 40 | 40 | ST | MSW | --- | 4 / 1983 | C |
| | PINELLAS COUNTY RES. RECOV. | 2 | PINELLAS | 14.8 | 14.8 | 0.0 | 0.0 | 17.1 | 17.1 | 14.8 | 14.8 | ST | MSW | --- | 6 / 1986 | C |
| | POTASH of SASKATCHEWAN | 1 | HAMILTON | 0.0 | 0.0 | 1.0 | 1.0 | 16.2 | 16.2 | 15 | 15 | ST | WH | --- | 1 / 1980 | NC |
| | POTASH of SASKATCHEWAN | 2 | HAMILTON | 0.0 | 0.0 | 0.2 | 0.2 | 28 | 28 | 27 | 27 | ST | WH | --- | 5 / 1986 | NC |
| | PROCTOR & GAMBLE (BUCKEYE) | 1-4 | TAYLOR | 0.0 | 0.0 | 0.0 | 0.0 | 38 | 38 | 38 | 38 | ST | WDS | --- | 1 / 1954 | NC |
| | RIDGE GENERATING STATION | 1 | POLK | 39.6 | 39.6 | 0.0 | 0.0 | 39.6 | 39.6 | 39.6 | 39.6 | ST | WDS | --- | 5 / 1994 | C |
| | ROYSTER | 1 | POLK | 30.8 | 30.8 | 0.0 | 0.0 | 30.8 | 30.8 | 30.8 | 30.8 | CA | NG | DFO | 7 / 1994 | C |
| | TIMBER ENERGY | 1 | LIBERTY | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 | 13.5 | 12.5 | 12.5 | ST | WDS | --- | 6 / 2002 | NC |
| | US AGRICHEM | 1 | POLK | 5.6 | 5.6 | 10.0 | 10.0 | 44.1 | 44.1 | 44.1 | 44.1 | ST | WH | --- | 1 / 1997 | NC |
| | | | **PEF TOTAL:** | **820.2** | **820.2** | **36.0** | **36.0** | | | | | | | | | |
| **REEDY CREEK IMPROVEMENT DISTRICT** | | | | | | | | | | | | | | | | |
| | ORLANDO COGEN | 1 | ORANGE | 35.0 | 35.0 | 0.0 | 0.0 | 35 | 35 | 35 | 35 | CA | NG | DFO | 1 / 1994 | C |
| | | | **RCI TOTAL:** | **35.0** | **35.0** | **0.0** | **0.0** | | | | | | | | | |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

FRCC Form 3.0
EXISTING NON-UTILITY, QF, AND SELF SERVICE GENERATION FACILITIES
AS OF DECEMBER 31, 2005

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | | | | | | | | | |
| | | | | FIRM | | UNCOMMITTED | | GROSS CAPABILITY | | NET CAPABILITY | | | FUEL TYPE | | COMMERCIAL IN-SERVICE | |
| UTILITY | FACILITY NAME | UNIT NO. | LOCATION | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | PRI | ALT | MO. / YEAR | STATUS |
| **SEMINOLE ELECTRIC COOPERATIVE INC** | | | | | | | | | | | | | | | | |
| | BIOENERGY | 1 | BROWARD | 6.0 | 7.0 | --- | --- | --- | --- | 6 | 7 | OT | LFG | --- | 1 / 2005 | C |
| | HARDEE POWER STATION | ST1 | HARDEE | 77.0 | 86.0 | --- | --- | --- | --- | 77 | 86 | CA | NG | DFO | 1 / 1993 | C |
| | HARDEE POWER STATION | CT1A | HARDEE | 71.0 | 90.0 | --- | --- | --- | --- | 71 | 90 | CT | NG | DFO | 1 / 1993 | C |
| | HARDEE POWER STATION | CT1B | HARDEE | 71.0 | 90.0 | --- | --- | --- | --- | 71 | 90 | CT | NG | DFO | 1 / 1993 | C |
| | HARDEE POWER STATION | CT2A | HARDEE | 71.0 | 90.0 | --- | --- | --- | --- | 71 | 90 | CT | NG | DFO | 1 / 1993 | C |
| | LEE COUNTY RES REC | 1 | LEE | 30.0 | 35.0 | --- | --- | --- | --- | 30 | 35 | ST | MSW | --- | 12 / 1999 | C |
| | TIMBER ENERGY | 1 | LIBERTY | 12.0 | 12.0 | --- | --- | --- | --- | 12 | 12 | ST | WDS | --- | 6 / 2004 | C |
| | | | **SEC TOTAL:** | **338.0** | **410.0** | **0.0** | **0.0** | | | | | | | | | |
| **TAMPA ELECTRIC COMPANY** | | | | | | | | | | | | | | | | |
| | AUBURNDALE POWER PARTNERS | 1-2 | POLK | 0.0 | 0.0 | 0.0 | 0.0 | 123.3 | 123.3 | 120 | 120 | CT | NG | NA | 8 / 1994 | NC |
| | CF INDUSTRIES | 1 | HILLSBOROUGH | 0.0 | 0.0 | 1.2 | 1.2 | 28.5 | 28.5 | 27.4 | 27.4 | ST | WH | NA | 12 / 1988 | NC |
| | CITY OF TAMPA REFUSE-ENERGY | 1 | HILLSBOROUGH | 15.5 | 15.5 | 2.5 | 2.5 | 21 | 21 | 18 | 18 | ST | MSW | NA | 6 / 1985 | C |
| | CITY OF TAMPA SEWAGE | 1-5 | HILLSBOROUGH | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | IC | OBG | NA | 7 / 1989 | NC |
| | CUTRALE CITRUS JUICES | 1-3 | POLK | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 5.7 | 5.9 | 5.7 | CT | NG | DFO | 12 / 1987 | NC |
| | GREENBAY | 1 | POLK | 0.0 | 0.0 | 2.9 | 2.9 | 28 | 28 | 25.1 | 25.1 | ST | WH | NA | 10 / 1990 | NC |
| | HILLSB. CTY REFUSE-ENERGY | 1 | HILLSBOROUGH | 23.0 | 23.0 | 0.0 | 0.0 | 30.4 | 30.4 | 23 | 23 | ST | MSW | NA | 4 / 1987 | C |
| | MILLPOINT | 1-3 | HILLSBOROUGH | 0.0 | 0.0 | 0.0 | 0.0 | 41 | 41 | 41 | 41 | OT | WH | NG | 12 / 1995 | NC |
| | MULBERRY | 1 | POLK | 0.0 | 0.0 | 0.0 | 0.0 | 21 | 21 | 21 | 21 | ST | WH | NA | 12 / 1985 | NC |
| | NEW WALES | 1-2 | POLK | 0.0 | 0.0 | 1.1 | 1.1 | 51.9 | 51.9 | 50.8 | 50.8 | ST | WH | NA | 12 / 1984 | NC |
| | ORANGE COGEN | 1 | POLK | 23.0 | 23.0 | 0.0 | 0.0 | 98 | 98 | 98 | 98 | CT | NG | NA | 1 / 1995 | C |
| | PASCO COGEN | 1-3 | PASCO | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | CT | NG | DFO | 5 / 1993 | NC |
| | RIDGEWOOD | 1-2 | HILLSBOROUGH | 0.0 | 0.0 | 0.0 | 0.0 | 57.1 | 57.1 | 57.1 | 57.1 | ST | WH | NA | 10 / 1992 | NC |
| | SOUTH PIERCE | 1-2 | POLK | 0.0 | 0.0 | 0.6 | 0.6 | 29.1 | 29.1 | 28.5 | 28.5 | ST | WH | NA | 9 / 1969 | NC |
| | ST. JOSEPHS HOSPITAL | 1 | HILLSBOROUGH | 0.0 | 0.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1 | 1 | IC | NG | NA | 4 / 1993 | NC |
| | | | **TEC TOTAL:** | **61.5** | **61.5** | **9.3** | **9.3** | | | | | | | | | |
| | | | **TOTAL FRCC EXISTING:** | **1,992.3** | **2,064.3** | **143.3** | **143.3** | **(UNCOMMITTED TOTAL EXCLUDES MERCHANT FACILITIES)** | | | | | | | | |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

EXISITNG UNCOMMITTED MERCHANT GENERATION
AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | UNCOMMITTED | | NET CAPABILITY | | | | CONTRACT CHANGE/ | |
| MECHANT COMPANY | PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | FUEL TYPE PRI | FUEL TYPE ALT | IN-SERVICE MO. / YEAR | STATUS |
| No Entries | | | | | | | | | | | | |
| | | | | TOTAL: | 0.0 | 0.0 | 0.0 | 0.0 | | | | |

**2006**
**LOAD AND RESOURCE PLAN**
**FLORIDA RELIABILITY COORDINATING COUNCIL**

**FRCC Form 3.1**
**PLANNED AND PROSPECTIVE NON-UTILITY, QF, AND SELF SERVICE GENERATION FACILITIES**
**INSTALLATIONS, CHANGES, AND REMOVALS**
**JANUARY 1, 2006 THROUGH DECEMBER 31, 2015**

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | COMMERCIAL IN-SERVICE/ RETIREMENT/ OR CHANGE IN CONTRACT | |
| | | | | FIRM | | UNCOMMITTED | | | | | | | FUEL TYPE | | | |
| UTIL | FACILITY NAME | UNIT NO. | LOCATION | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | PRI | ALT | MO. / YEAR | STATUS |
| | **2006** | | | | | | | | | | | | | | | |
| PEF | JEFFERSON POWER | 1 | JEFFERSON | -2.0 | -2.0 | 8.0 | 8.0 | 9.4 | 9.4 | 8.0 | 8.0 | ST | WDS | --- | 1 / 2006 | CE |
| PEF | US AGRICHEM | 1 | POLK | -5.6 | -5.6 | 15.6 | 15.6 | 44.1 | 44.1 | 44.1 | 44.1 | ST | WH | --- | 1 / 2006 | CE |
| PEF | BAY COUNTY RES. RECOV. | 1 | BAY | -11.0 | -11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | ST | MSW | --- | 12 / 2006 | CE |
| | **2007** | | | | | | | | | | | | | | | |
| SEC | LEE COUNTY RES. RECOV. | 1 | LEE | 20.0 | 20.0 | 0.0 | 0.0 | 20.0 | 20.0 | 20.0 | 20.0 | ST | MSW | --- | 4 / 2007 | C |
| JEA | TRAILRIDGE | 1 | DUVAL | 9.1 | 9.1 | --- | --- | 9.1 | 9.1 | 9.1 | 9.1 | IC | OBG | --- | 5 / 2007 | C |
| JEA | JEFFERSON SMURFIT | 1 | DUVAL | 13.0 | 13.0 | --- | --- | 13.0 | 13.0 | 13.0 | 13.0 | ST | WDS | --- | 5 / 2007 | C |
| PEF | CARGILL | 2 | POLK | -15.0 | -15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | ST | WH | NG | 12 / 2007 | CE |
| | **2008** | | | | | | | | | | | | | | | |
| PEF | G2 ENERGY | 1 | UNKNOWN | 11.0 | 11.0 | 3.0 | 3.0 | 14.0 | 14.0 | 11.0 | 11.0 | IC | LFG | --- | 1 / 2008 | C |
| | **2009** | | | | | | | | | | | | | | | |
| FPL | BROWARD-SOUTH | 1 | BROWARD | -50.6 | -50.6 | 50.6 | 50.6 | 68.0 | 68.0 | 61.0 | 61.0 | OT | MSW | --- | 8 / 2009 | C |
| SEC | BIO-ENERGY PARTNERS | 1 | BROWARD | -6.0 | -7.0 | 0.0 | 0.0 | 6.0 | 7.0 | 6.0 | 7.0 | ST | LFG | --- | 12 / 2009 | CE |
| | **2010** | | | | | | | | | | | | | | | |
| TEC | HILLSB. CTY REFUSE-TO-ENERGY | 1 | HILLSBOROUGH | -23.0 | -23.0 | 23.0 | 23.0 | 30.4 | 30.4 | 23.0 | 23.0 | ST | MSW | --- | 3 / 2010 | C |
| FPL | PALM BEACH COUNTY | 1 | PALM BEACH | -47.5 | -47.5 | --- | --- | 56.0 | 56.0 | 47.5 | 47.5 | OT | MSW | --- | 3 / 2010 | C |
| FPL | BROWARD-NORTH | 1 | BROWARD | -45.0 | -45.0 | 45.0 | 45.0 | 62.0 | 62.0 | 56.0 | 56.0 | OT | MSW | --- | 12 / 2010 | C |
| | **2011** | | | | | | | | | | | | | | | |
| TEC | CITY OF TAMPA REFUSE-TO-ENERGY | 1 | HILLSBOROUGH | -15.5 | -15.5 | 18.0 | 18.0 | 21.0 | 21.0 | 18.0 | 18.0 | ST | MSW | --- | 9 / 2011 | CE |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

FRCC Form 3.1
PLANNED AND PROSPECTIVE NON-UTILITY, QF, AND SELF SERVICE GENERATION FACILITIES
INSTALLATIONS, CHANGES, AND REMOVALS
JANUARY 1, 2006 THROUGH DECEMBER 31, 2015

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | COMMERCIAL IN-SERVICE/ RETIREMENT/ OR CHANGE IN CONTRACT | |
| | | | | FIRM | | UNCOMMITTED | | | | | | | FUEL TYPE | | | |
| UTIL | FACILITY NAME | UNIT NO. | LOCATION | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | PRI | ALT | MO. / YEAR | STATUS |
| | **2012** | | | | | | | | | | | | | | | |
| SEC | HARDEE POWER STATION | CT1A | HARDEE | -71.0 | -90.0 | 0.0 | 0.0 | 71.0 | 90.0 | 71.0 | 90.0 | CT | NG | DFO | 12 / 2012 | CE |
| SEC | HARDEE POWER STATION | CT1B | HARDEE | -71.0 | -90.0 | 0.0 | 0.0 | 71.0 | 90.0 | 71.0 | 90.0 | CT | NG | DFO | 12 / 2012 | CE |
| SEC | HARDEE POWER STATION | ST1 | HARDEE | -77.0 | -86.0 | 0.0 | 0.0 | 77.0 | 86.0 | 77.0 | 86.0 | CA | NG | DFO | 12 / 2012 | CE |
| SEC | HARDEE POWER STATION | CT2A | HARDEE | -71.0 | -90.0 | 0.0 | 0.0 | 71.0 | 90.0 | 71.0 | 90.0 | CT | NG | DFO | 12 / 2012 | CE |
| | **2013** | | | | | | | | | | | | | | | |
| PEF | LAKE COGEN | 1 | LAKE | -110.0 | -110.0 | 110.0 | 110.0 | 111.0 | 111.0 | 110.0 | 110.0 | CA | NG | DFO | 7 / 2013 | CE |
| PEF | DADE COUNTY RES. RECOV. | 1 | DADE | -43.0 | -43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | ST | MSW | --- | 11 / 2013 | CE |
| PEF | EL DORADO | 1-2 | POLK | -114.2 | -114.2 | 133.0 | 133.0 | 133.0 | 133.0 | 133.0 | 133.0 | CA | NG | DFO | 12 / 2013 | CE |
| PEF | LFC JEFFERSON | 1 | POLK | -8.5 | -8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | CA | NG | DFO | 12 / 2013 | CE |
| PEF | LFC MADISON | 1 | POLK | -8.5 | -8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | CA | NG | DFO | 12 / 2013 | CE |
| | **2014** | | | | | | | | | | | | | | | |
| PEF | LAKE COUNTY RES. RECOV. | 1 | LAKE | -12.8 | -12.8 | 12.8 | 12.8 | 14.8 | 14.8 | 12.8 | 12.8 | ST | MSW | --- | 6 / 2014 | CE |
| | **2015** | | | | | | | | | | | | | | | |
| TEC | ORANGE COGEN | 1 | POLK | -23.0 | -23.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | CT | NG | NA | 12 / 2015 | C |

2006
FLORIDA RELIABILITY COORDINATING COUNCIL

PLANNED AND PROSPECTIVE UNCOMMITTED GENERATION FROM MERCHANT GENERATING FACILITIES
INSTALLATIONS, CHANGES, AND REMOVALS
AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | TOTAL UNCOMMITTED | | NET CAPABILITY | | | | | |
| MERCHANT COMPANY | PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | FUEL TYPE PRI | FUEL TYPE ALT | CONTRACT CHANGE/ IN-SERVICE MO. / YEAR | STATUS |
| 2006 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2007 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2008 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2009 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2010 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2011 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2012 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2013 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2014 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |
| 2015 | | | | | | | | | | | | |
| No Entries | | | | | | | | | | | | |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL
## NON-UTILITY GENERATING FACILITIES SUMMARY

| | SUMMER | | | WINTER | | | |
|---|---|---|---|---|---|---|---|
| YEAR | FIRM NET TO GRID (MW) | UNCOMMITTED QF GENERATION (MW) | UNCOMMITTED NUG GENERATION (MW) | YEAR | FIRM NET TO GRID (MW) | UNCOMMITTED QF GENERATION (MW) | UNCOMMITTED NUG GENERATION (MW) |
| 2006 | 1,984.7 | 143.3 | 0.0 | 2006/07 | 2,053.3 | 154.3 | 0.0 |
| 2007 | 2,015.8 | 154.3 | 0.0 | 2007/08 | 2,091.4 | 172.3 | 0.0 |
| 2008 | 2,011.8 | 169.3 | 0.0 | 2008/09 | 2,091.4 | 172.3 | 0.0 |
| 2009 | 1,961.2 | 169.3 | 0.0 | 2009/10 | 1,963.3 | 245.9 | 0.0 |
| 2010 | 1,884.7 | 242.9 | 0.0 | 2010/11 | 1,918.3 | 290.9 | 0.0 |
| 2011 | 1,839.7 | 287.9 | 0.0 | 2011/12 | 1,902.8 | 308.9 | 0.0 |
| 2012 | 1,824.2 | 305.9 | 0.0 | 2012/13 | 1,546.8 | 308.9 | 0.0 |
| 2013 | 1,424.2 | 305.9 | 0.0 | 2013/14 | 1,262.6 | 611.9 | 0.0 |
| 2014 | 1,237.2 | 621.7 | 0.0 | 2014/15 | 1,249.8 | 624.7 | 0.0 |
| 2015 | 1,237.2 | 621.7 | 0.0 | 2015/16 | 1,226.8 | 722.7 | 0.0 |

**2006**

**LOAD AND RESOURCE PLAN**

**FLORIDA RELIABILITY COORDINATING COUNCIL**

**FRCC Form 12**

**SUMMARY OF FIRM CAPACITY AND ENERGY CONTRACTS**

**AS OF JANUARY 1, 2006**

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|
| PURCHASING ENTITY | SELLING ENTITY | CONTRACT TERM | | NET CAPABILITY | | DESCRIPTION |
| | | FROM (MM/DD/YY) | TO (MM/DD/YY) | SUMMER (MW) | WINTER (MW) | |
| FKE | FPL | 01/01/92 | 12/31/11 | 144 | 113 | FKEC committed to purchase PR of capacity and energy from FPL. Contract limits FPL to 108.5 MW. |
| FTM | TEC | 01/01/06 | 12/31/06 | 10 | 11 | Partial Requirements - Firm Tariff AR-1 Period: 1/1/1997 - 12/31/2013 |
| FTM | TEC | 01/01/07 | 12/31/07 | 10 | 12 | Partial Requirements - Firm Tariff AR-1 Period: 1/1/1997 - 12/31/2013 |
| FTM | TEC | 01/01/08 | 12/31/08 | 10 | 12 | Partial Requirements - Firm Tariff AR-1 Period: 1/1/1997 - 12/31/2013 |
| FTM | TEC | 01/01/09 | 12/31/09 | 10 | 12 | Partial Requirements - Firm Tariff AR-1 Period: 1/1/1997 - 12/31/2013 |
| FTM | TEC | 01/01/10 | 12/31/10 | 10 | 13 | Partial Requirements - Firm Tariff AR-1 Period: 1/1/1997 - 12/31/2013 |
| FTM | TEC | 01/01/11 | 12/31/13 | 11 | 13 | Partial Requirements - Firm Tariff AR-1 Period: 1/1/1997 - 12/31/2013 |
| FMPA | CAL | 01/01/06 | 12/31/06 | 75 | 75 | UPS; Included as part of FMPAs Firm Peak Demand |
| FMPA | CAL | 01/01/07 | 12/31/09 | 100 | 100 | UPS; Included as part of FMPAs Firm Peak Demand |
| FMPA | FPL | 06/01/02 | 10/31/07 | 75 | 75 | Scheduled D; Included as part of Firm Peak Demand |
| FMPA | FTP | 01/01/98 | 12/31/15 | 118 | 118 | Existing Unit Purch; Included as part of Firm Peak Demand |
| FMPA | GRU | 10/01/97 | 12/31/06 | 3 | 3 | Scheduled D, Included as part of FMPAs Firm Peak Demand |
| FMPA | KEY | 04/01/98 | 12/31/15 | 50 | 50 | Existing Unit Purch; Included as part of FMPAs Firm Peak Demand |
| FMPA | KUA | 10/01/02 | 12/31/15 | 292 | 292 | Existing Unit Purch; Included as part of FMPAs Firm Peak Demand |
| FMPA | LAK | 06/01/01 | 12/14/07 | 100 | 100 | Scheduled D; Included as part of FMPAs Firm Peak Demand. Firm Power Sale. |
| FMPA | LWU | 01/01/03 | 12/31/15 | 88 | 97 | Existing Unit Purch; Included as part of FMPAs Firm Peak Demand |
| FMPA | OUC | 01/01/06 | 12/31/06 | 22 | 22 | UPS; Included as part of FMPAs Firm Peak Demand |
| FMPA | SOU | 10/01/03 | 09/30/15 | 41 | 41 | Stanton A CC - UPS; Included as part of FMPAs Firm Peak Demand |
| FMPA | SOU | 10/01/03 | 09/30/15 | 41 | 41 | Stanton A CC - UPS; KUAs PPA from SOU; Included as part of FMPAs Firm Peak Demand |
| FMPA | SOU | 12/16/07 | 12/16/32 | 157 | 157 | Oleander Plant Purchase; Included as part of FMPAs Firm Peak Demand |
| FMPA | VER | 06/01/97 | 12/31/09 | 150 | 155 | Existing Unit Purch; Included as part of FMPAs Firm Peak Demand |
| FPL | DESOTO | 06/01/02 | 12/31/06 | 140 | 362 | Progress Energy Ventures |
| FPL | DESOTO | 04/01/06 | 12/31/06 | 55 | 0 | Progress Energy Ventures |
| FPL | DESOTO | 01/01/07 | 03/31/09 | 105 | 105 | Progress Energy Ventures |
| FPL | IRPPA | 01/01/06 | 12/31/06 | 130 | 130 | Reliant/Indian River |
| FPL | IRPPA | 05/01/06 | 12/31/06 | 346 | 0 | Reliant/Indian River |
| FPL | IRPPA | 01/01/07 | 12/31/07 | 222 | 0 | Reliant/Indian River |
| FPL | IRPPA | 01/01/07 | 12/31/07 | 354 | 354 | Reliant/Indian River |
| FPL | IRPPA | 01/01/08 | 12/31/08 | 576 | 576 | Reliant/Indian River |
| FPL | IRPPA | 01/01/09 | 12/31/09 | 250 | 250 | Reliant/Indian River |
| FPL | IRPPA | 01/01/09 | 12/31/09 | 325 | 0 | Reliant/Indian River |
| FPL | JEA | 03/01/87 | 09/30/21 | 381 | 390 | Unit Power Sales - Firm Contract |
| FPL | PASCO | 01/01/05 | 04/01/07 | 474 | 474 | Reliant / Pasco / Shady Hills |
| FPL | SOU | 07/19/88 | 05/31/10 | 931 | 931 | Unit Power Sales - Firm Contract |
| FPL | SOU | 06/01/02 | 05/31/07 | 156 | 180 | Oleander. |
| FPL | SOU | 05/01/07 | 05/31/12 | 158 | 180 | Oleander. |
| FPL | SOU | 06/01/10 | 12/31/21 | 930 | 930 | To replace UPS. |
| FPL | WILLIAMS | 03/01/06 | 12/31/06 | 56 | 0 | |
| FPL | WILLIAMS | 01/01/07 | 12/31/09 | 106 | 106 | |

**2006**

**LOAD AND RESOURCE PLAN**

**FLORIDA RELIABILITY COORDINATING COUNCIL**

**FRCC Form 12**

**SUMMARY OF FIRM CAPACITY AND ENERGY CONTRACTS**

**AS OF JANUARY 1, 2006**

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|
| PURCHASING ENTITY | SELLING ENTITY | CONTRACT TERM | | NET CAPABILITY | | DESCRIPTION |
| | | FROM (MM/DD/YY) | TO (MM/DD/YY) | SUMMER (MW) | WINTER (MW) | |
| GRU | TBD | 05/01/11 | 10/15/11 | 21 | 0 | Firm Capacity with energy from generating entity or DLC either contracted or self operated |
| GRU | TBD | 05/01/12 | 10/15/12 | 32 | 0 | Firm Capacity with energy from generating entity or DLC either contracted or self operated |
| HST | PEF | 01/01/06 | 12/31/06 | 15 | 15 | |
| HST | PEF | 01/01/07 | 12/31/09 | 30 | 30 | Have the option to increase amount by 5 MWs. |
| HST | PEF | 01/01/10 | 12/31/12 | 35 | 35 | Have the option to increase amount by 5 MWs. |
| HST | PEF | 01/01/13 | 12/31/19 | 40 | 40 | Have the option to increase amount by 5 MWs. |
| JEA | SOU | 01/01/80 | 05/31/10 | 207 | 207 | UPS Contract with Southern Company |
| JEA | TEA | 12/15/11 | 03/15/12 | 0 | 70 | Seasonal Winter Purchase to be supplied by The Energy Authority (TEA). |
| NSB | PEF | 01/01/98 | 12/31/08 | 15 | 15 | Partial Requirements |
| NSB | TEC | 01/01/06 | 12/31/07 | 10 | 10 | Schedule D |
| OUC | SOU | 01/01/06 | 12/31/16 | 322 | 343 | OUC PPA with SOU for Stanton A capacity. |
| PEF | CPL | 12/01/05 | 12/31/10 | 133 | 133 | 133 MW Firm Purchase |
| PEF | MIR | 04/01/07 | 04/30/14 | 478 | 520 | Shady Hills PPA |
| PEF | SEPA | 01/01/00 | 12/31/11 | 36 | 36 | Back-Up Contract for Jim Woodruff Dam Capacity (SEPA) |
| PEF | SOU | 01/01/94 | 06/01/10 | 207 | 207 | Unit Power Purchase #1 |
| PEF | SOU | 01/01/94 | 06/01/10 | 207 | 207 | Unit Power Purchase #2 |
| PEF | SOU | 06/01/10 | 12/31/15 | 412 | 412 | Southern UPS Extension |
| PEF | TEA | 06/01/06 | 09/30/06 | 200 | 0 | 200 MW summer seasonal purchase (under negotiation) |
| PEF | TEA | 12/01/06 | 03/16/07 | 0 | 500 | 500 MW winter seasonal purchase (under negotiation) |
| PEF | TEA | 06/01/07 | 09/30/07 | 158 | 0 | 158 MW summer seasonal purchase (under negotiation) |
| PEF | TEC | 01/01/05 | 03/16/11 | 70 | 70 | Partial Requirements - Firm AR-1 period: 1/1/2005 - 2/28/2011 Included in PEFs Reserve Margin |
| RCI | ORLANDO COGEN | 01/01/02 | 01/01/13 | 35 | 35 | Firm Purchase 1994-2013. Reedy has a Firm take of 35MW. |
| RCI | PEF | 01/01/06 | 12/31/06 | 94 | 66 | Firm Base Load Purchase for the period 2006-2010 |
| RCI | PEF | 01/01/07 | 12/31/07 | 117 | 89 | Firm Base Load Purchase for the period 2006-2010 |
| RCI | PEF | 01/01/08 | 12/31/08 | 117 | 90 | Firm Base Load Purchase for the period 2006-2010 |
| RCI | PEF | 01/01/09 | 12/31/09 | 118 | 91 | Firm Base Load Purchase for the period 2006-2010 |
| RCI | PEF | 01/01/10 | 12/31/10 | 119 | 92 | Firm Base Load Purchase for the period 2006-2010 |
| RCI | TEC | 01/01/95 | 12/31/17 | 75 | 75 | Partial Requirements Contract purchased from TECO. |
| SEC | BIOENERGY | 01/01/05 | 12/31/09 | 6 | 7 | Bio-Energy Partners: Landfill gas-to-energy facility |
| SEC | CAL | 06/01/04 | 12/01/12 | 170 | 180 | Intermediate firm capacity purchase - Osprey 1 |
| SEC | CAL | 06/01/04 | 12/01/12 | 170 | 180 | Intermediate firm capacity purchase - Osprey 2 |
| SEC | HPP | 01/01/93 | 12/31/12 | 290 | 356 | First call reserve power purchase |
| SEC | LEE | 12/01/99 | 03/31/07 | 30 | 35 | Municipal solid waste facility |
| SEC | LEE | 04/01/07 | 07/31/20 | 50 | 55 | Municipal solid waste facility, Increase in capability. |
| SEC | PEF | 01/01/99 | 12/31/13 | 150 | 150 | System firm intermediate capacity purchase |
| SEC | PEF | 06/01/06 | 12/31/13 | 150 | 150 | System firm intermediate capacity purchase |
| SEC | PEF | 12/01/06 | 12/31/13 | 150 | 150 | System firm capacity purchase (notification given to convert to from peaking to intermediate) |

**2006**
**LOAD AND RESOURCE PLAN**
**FLORIDA RELIABILITY COORDINATING COUNCIL**
**FRCC Form 12**
**SUMMARY OF FIRM CAPACITY AND ENERGY CONTRACTS**
**AS OF JANUARY 1, 2006**

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|
| PURCHASING ENTITY | SELLING ENTITY | CONTRACT TERM | | NET CAPABILITY | | DESCRIPTION |
| | | FROM (MM/DD/YY) | TO (MM/DD/YY) | SUMMER (MW) | WINTER (MW) | |
| SEC | RES | 12/01/01 | 12/31/06 | 153 | 182 | CT firm capacity purchase - Osceola 2 |
| SEC | RES | 12/01/08 | 05/31/14 | 153 | 182 | CT firm capacity purchase - Osceola 2 |
| SEC | RES | 12/01/01 | 12/31/06 | 153 | 182 | CT firm capacity purchase - Osceola 3 |
| SEC | RES | 12/01/08 | 05/31/14 | 153 | 182 | CT firm capacity purchase - Osceola 3 |
| SEC | SOU | 12/01/02 | 04/01/16 | 153 | 182 | CT firm capacity purchase - Oleander 2 |
| SEC | SOU | 12/01/02 | 04/01/16 | 153 | 182 | CT firm capacity purchase - Oleander 3 |
| SEC | SOU | 05/01/03 | 04/01/16 | 153 | 182 | CT firm capacity purchase - Oleander 4 |
| SEC | TELOGIA | 06/01/04 | 12/31/19 | 12 | 12 | DG Telogia Power LLC: Wood waste fueled biomass facility |
| SEC | UNKNOWN | 11/01/13 | 04/01/16 | 680 | 680 | SEC BASE |
| SEC | UNKNOWN | 11/01/14 | 04/01/16 | 170 | 170 | SEC BASE |
| SEC | UNKNOWN | 11/01/09 | 04/01/16 | 85 | 97 | SEC INTERMEDIATE 1 |
| SEC | UNKNOWN | 11/01/10 | 04/01/16 | 141 | 160 | SEC INTERMEDIATE 2 |
| SEC | UNKNOWN | 11/01/11 | 04/01/16 | 93 | 106 | SEC INTERMEDIATE 3 |
| SEC | UNKNOWN | 11/01/12 | 04/01/16 | 155 | 177 | SEC INTERMEDIATE 4 |
| SEC | UNKNOWN | 11/01/14 | 04/01/16 | 158 | 180 | SEC INTERMEDIATE 5 |
| SEC | UNKNOWN | 11/01/07 | 04/01/16 | 112 | 112 | SEC PEAKING 1 |
| SEC | UNKNOWN | 11/01/09 | 04/01/16 | 62 | 62 | SEC PEAKING 2 |
| SEC | UNKNOWN | 05/01/14 | 04/01/16 | 256 | 256 | SEC PEAKING 3 |
| STC | OUC | 01/01/06 | 09/30/06 | 95 | 0 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/06 | 09/30/07 | 120 | 123 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/07 | 09/30/08 | 125 | 128 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/08 | 09/30/09 | 131 | 133 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/09 | 09/30/10 | 136 | 139 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/10 | 09/30/11 | 142 | 145 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/11 | 09/30/12 | 148 | 152 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/12 | 09/30/13 | 169 | 173 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/13 | 09/30/14 | 176 | 180 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/14 | 09/30/15 | 183 | 187 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | OUC | 10/01/15 | 04/01/16 | 183 | 195 | Interchange between OUC and STC per Interlocal Agreement. |
| STC | TEC | 01/01/06 | 12/31/12 | 15 | 15 | Partial Requirements - Firm Tariff AR-1 Period 1/1/97 - 12/31/2012 |
| TAL | PEF | 10/01/99 | 09/01/16 | 11 | 11 | System firm capacity and energy with firm transmission. |
| TEC | CAL | 05/01/06 | 04/30/11 | 170 | 170 | Long-term firm purchase from Calpine - 05/01/2006 thru 04/30/2011 for up to 170 MW |
| TEC | INVE | 01/01/93 | 12/31/12 | 69 | 88 | Firm contract with Invenergy (INVE), owners of Hardee Power Station. |
| TEC | INVE | 01/01/93 | 12/31/12 | 287 | 353 | Firm contract with Invenergy (INVE), owners of Hardee Power Station |
| TEC | PEF | 01/01/06 | 03/31/07 | 50 | 50 | Firm contract with PEF to purchase 50 MW - 01/01/2006 - 03/31/2007 |
| TEC | UNKNOWN | 01/01/08 | 03/16/08 | 0 | 230 | 230 MW Need For The Winter of 2008 Unknown Seller |
| WAU | TEC | 01/01/05 | 12/31/13 | 12 | 12 | Partial Requirements - Firm Tariff AR-1 Period: 1/1/97 - 12/31/2013 |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 9.0
## FUEL REQUIREMENTS
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FUEL REQUIREMENTS | | UNITS | ACTUAL 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| (1) | NUCLEAR | | TRILLION BTU | 309 | 344 | 331 | 351 | 332 | 346 | 344 | 347 | 341 | 349 | 342 |
| (2) | COAL | | 1000 TON | 23,849 | 23,384 | 24,813 | 25,197 | 25,046 | 25,942 | 26,612 | 29,187 | 34,019 | 37,959 | 39,402 |
| | RESIDUAL | | | | | | | | | | | | | |
| (3) | | STEAM | 1000 BBL | 42,942 | 32,085 | 32,121 | 27,931 | 16,540 | 10,128 | 10,574 | 9,187 | 7,927 | 7,475 | 6,811 |
| (4) | | CC | 1000 BBL | 110 | 54 | 49 | 132 | 143 | 114 | 132 | 133 | 114 | 162 | 197 |
| (5) | | CT | 1000 BBL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (6) | | TOTAL: | 1000 BBL | 43,052 | 32,139 | 32,170 | 28,063 | 16,683 | 10,242 | 10,706 | 9,320 | 8,041 | 7,637 | 7,008 |
| | DISTILLATE | | | | | | | | | | | | | |
| (7) | | STEAM | 1000 BBL | 198 | 131 | 142 | 146 | 139 | 151 | 155 | 171 | 183 | 194 | 207 |
| (8) | | CC | 1000 BBL | 302 | 140 | 119 | 146 | 105 | 105 | 114 | 118 | 120 | 122 | 109 |
| (9) | | CT | 1000 BBL | 1,741 | 1,707 | 1,738 | 1,703 | 1,714 | 1,835 | 1,872 | 1,765 | 1,786 | 1,749 | 1,845 |
| (10) | | TOTAL: | 1000 BBL | 2,241 | 1,978 | 1,999 | 1,995 | 1,958 | 2,091 | 2,141 | 2,054 | 2,089 | 2,065 | 2,161 |
| | NATURAL GAS | | | | | | | | | | | | | |
| (11) | | STEAM | 1000 MCF | 54,710 | 35,931 | 33,528 | 31,000 | 69,323 | 92,532 | 84,694 | 72,803 | 79,321 | 66,965 | 64,987 |
| (12) | | CC | 1000 MCF | 472,064 | 463,523 | 601,404 | 670,275 | 767,801 | 834,162 | 891,389 | 899,940 | 853,587 | 823,954 | 855,936 |
| (13) | | CT | 1000 MCF | 32,999 | 43,252 | 46,140 | 47,398 | 50,149 | 57,966 | 70,080 | 69,648 | 66,298 | 64,972 | 74,922 |
| (14) | | TOTAL: | 1000 MCF | 559,773 | 542,706 | 681,072 | 748,673 | 887,273 | 984,660 | 1,046,163 | 1,042,391 | 999,206 | 955,891 | 995,845 |
| (15) | OTHER | | TRILLION BTU | 1,823 | 2,268 | 3,240 | 3,280 | 3,168 | 3,342 | 3,435 | 3,317 | 4,624 | 4,512 | 4,502 |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 9.1
## ENERGY SOURCES (GWH)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ACTUAL | | | | | | | | | | |
| | ENERGY SOURCES | | UNITS | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| (1) | FIRM INTER-REGION INTERCHANGE | | GWH | 16,169 | 16,979 | 16,988 | 16,950 | 17,169 | 13,808 | 11,016 | 11,029 | 10,769 | 10,429 | 10,072 |
| (2) | NUCLEAR | | GWH | 28,632 | 31,807 | 30,715 | 32,645 | 30,655 | 32,055 | 31,975 | 32,245 | 31,581 | 32,468 | 31,642 |
| (3) | COAL | | GWH | 56,003 | 54,769 | 56,161 | 56,512 | 56,146 | 57,864 | 59,180 | 67,394 | 80,587 | 91,652 | 95,314 |
| | RESIDUAL | | | | | | | | | | | | | |
| (4) | | STEAM | GWH | 27,135 | 20,485 | 20,516 | 17,781 | 10,552 | 6,445 | 6,778 | 5,863 | 5,024 | 4,748 | 4,317 |
| (5) | | CC | GWH | 71 | 36 | 32 | 87 | 92 | 73 | 86 | 94 | 80 | 111 | 131 |
| (6) | | CT | GWH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (7) | | TOTAL: | GWH | 27,206 | 20,521 | 20,548 | 17,868 | 10,644 | 6,518 | 6,864 | 5,957 | 5,104 | 4,859 | 4,448 |
| | DISTILLATE | | | | | | | | | | | | | |
| (8) | | STEAM | GWH | 26 | 25 | 26 | 25 | 24 | 26 | 26 | 36 | 40 | 51 | 53 |
| (9) | | CC | GWH | 178 | 73 | 60 | 84 | 51 | 52 | 52 | 51 | 52 | 52 | 49 |
| (10) | | CT | GWH | 685 | 665 | 639 | 665 | 761 | 787 | 776 | 669 | 711 | 634 | 636 |
| (11) | | TOTAL: | GWH | 889 | 763 | 725 | 774 | 836 | 865 | 854 | 756 | 803 | 737 | 738 |
| | NATURAL GAS | | | | | | | | | | | | | |
| (12) | | STEAM | GWH | 5,211 | 3,438 | 3,196 | 2,946 | 6,757 | 9,103 | 8,337 | 7,187 | 7,806 | 6,600 | 6,375 |
| (13) | | CC | GWH | 67,848 | 79,263 | 84,238 | 93,667 | 108,097 | 117,425 | 125,542 | 125,482 | 117,794 | 115,222 | 119,499 |
| (14) | | CT | GWH | 2,694 | 3,238 | 3,169 | 3,437 | 4,183 | 4,503 | 5,254 | 5,283 | 5,187 | 5,346 | 6,156 |
| (15) | | TOTAL: | GWH | 75,753 | 85,939 | 90,603 | 100,050 | 119,037 | 131,031 | 139,133 | 137,952 | 130,787 | 127,168 | 132,030 |
| (16) | NUG | | GWH | 7,550 | 7,452 | 7,447 | 7,385 | 7,511 | 8,092 | 8,482 | 8,242 | 6,155 | 5,166 | 5,496 |
| (17) | HYDRO | | GWH | 27 | 14 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| (18) | OTHER | | GWH | 14,315 | 14,317 | 16,692 | 16,998 | 15,072 | 13,541 | 12,760 | 13,457 | 17,948 | 18,094 | 17,803 |
| (19) | NET ENERGY FOR LOAD | | GWH | 226,544 | 232,561 | 239,897 | 249,200 | 257,088 | 263,792 | 270,282 | 277,050 | 283,752 | 290,591 | 297,561 |

2006
LOAD AND RESOURCE PLAN
FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 9.2
## ENERGY SOURCES (%)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ACTUAL | | | | | | | | | | |
| | ENERGY SOURCES | | UNITS | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| (1) | FIRM INTER-REGION INTERCHANGE | | % | 7.14% | 7.30% | 7.08% | 6.80% | 6.68% | 5.23% | 4.08% | 3.98% | 3.80% | 3.59% | 3.38% |
| (2) | NUCLEAR | | % | 12.64% | 13.68% | 12.80% | 13.10% | 11.92% | 12.15% | 11.83% | 11.64% | 11.13% | 11.17% | 10.63% |
| (3) | COAL | | % | 24.72% | 23.55% | 23.41% | 22.68% | 21.84% | 21.94% | 21.90% | 24.33% | 28.40% | 31.54% | 32.03% |
| | RESIDUAL | | | | | | | | | | | | | |
| (4) | | STEAM | % | 11.98% | 8.81% | 8.55% | 7.14% | 4.10% | 2.44% | 2.51% | 2.12% | 1.77% | 1.63% | 1.45% |
| (5) | | CC | % | 0.03% | 0.02% | 0.01% | 0.03% | 0.04% | 0.03% | 0.03% | 0.03% | 0.03% | 0.04% | 0.04% |
| (6) | | CT | % | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| (7) | | TOTAL: | % | 12.01% | 8.82% | 8.57% | 7.17% | 4.14% | 2.47% | 2.54% | 2.15% | 1.80% | 1.67% | 1.49% |
| | DISTILLATE | | | | | | | | | | | | | |
| (8) | | STEAM | % | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.02% | 0.02% |
| (9) | | CC | % | 0.08% | 0.03% | 0.03% | 0.03% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% |
| (10) | | CT | % | 0.30% | 0.29% | 0.27% | 0.27% | 0.30% | 0.30% | 0.29% | 0.24% | 0.25% | 0.22% | 0.21% |
| (11) | | TOTAL: | % | 0.39% | 0.33% | 0.30% | 0.31% | 0.33% | 0.33% | 0.32% | 0.27% | 0.28% | 0.25% | 0.25% |
| | NATURAL GAS | | | | | | | | | | | | | |
| (12) | | STEAM | % | 2.30% | 1.48% | 1.33% | 1.18% | 2.63% | 3.45% | 3.08% | 2.59% | 2.75% | 2.27% | 2.14% |
| (13) | | CC | % | 29.95% | 34.08% | 35.11% | 37.59% | 42.05% | 44.51% | 46.45% | 45.29% | 41.51% | 39.65% | 40.16% |
| (14) | | CT | % | 1.19% | 1.39% | 1.32% | 1.38% | 1.63% | 1.71% | 1.94% | 1.91% | 1.83% | 1.84% | 2.07% |
| (15) | | TOTAL: | % | 33.44% | 36.95% | 37.77% | 40.15% | 46.30% | 49.67% | 51.48% | 49.79% | 46.09% | 43.76% | 44.37% |
| (16) | NUG | | % | 3.33% | 3.20% | 3.10% | 2.96% | 2.92% | 3.07% | 3.14% | 2.97% | 2.17% | 1.78% | 1.85% |
| (17) | HYDRO | | % | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% |
| (18) | OTHER | | % | 6.32% | 6.16% | 6.96% | 6.82% | 5.86% | 5.13% | 4.72% | 4.86% | 6.33% | 6.23% | 5.98% |
| (19) | NET ENERGY FOR LOAD | | % | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL

## FRCC Form 13
## SUMMARY AND SPECIFICATIONS OF PROPOSED TRANSMISSION LINES
## AS OF JANUARY 1, 2006

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|---|
| LINE OWNERSHIP | TERMINALS | | LINE LENGTH CKT. MILES | COMMERCIAL IN-SERVICE (MO/YR) | NOMINAL VOLTAGE (kV) | CAPACITY (MVA) | SITED UNDER |
| FPL | Collier | Orange River #3 | 54 | 12 / 2006 | 230 | 759 | TLSA |
| PEF | Vandolah | Charlotte | 55 | 12 / 2006 | 230 | 1141 | NA |
| SEC | Hardee | Vandolah 1 | 9 | 12 / 2006 | 230 | 1195 | NA |
| SEC | Hardee | Vandolah 2 | 9 | 12 / 2006 | 230 | 1195 | NA |
| SEC | Hardee | Payne Creek 1 | 1 | 12 / 2006 | 230 | 1195 | NA |
| SEC | Hardee | Payne Creek 2 | 1 | 12 / 2006 | 230 | 1195 | NA |
| SEC | Vandolah | Charlotte | 49 | 12 / 2006 | 230 | 796 | NA |
| PEF | Hines Energy Complex | West Lake Wales #1 | 21 | 6 / 2007 | 230 | 1141 | NA |
| TEC | Gannon | SR 60 | 2 | 9 / 2007 | 230 | 749 | NA |
| PEF | Lake Bryan | Windermere #1 | 10 | 1 / 2008 | 230 | 1141 | NA |
| PEF | Lake Bryan | Windermere #2 | 10 | 1 / 2008 | 230 | 1141 | NA |
| FMPA | TCEC | (Midway-Turpike Tie Point (FPL)) | 3 | 5 / 2008 | 230 | 759 | NA |
| FMPA | TCEC | Midway (FPL) | 3 | 5 / 2008 | 230 | 759 | NA |
| PEF | Avalon | *Gifford* | 7 | 7 / 2008 | 230 | 1141 | NA |
| FPL | St. Johns | Pringle | 26 | 12 / 2008 | 230 | 759 | TLSA |
| TEC | Pebbledale | Willow Oak | 12 | 6 / 2009 | 230 | 1013 | NA |
| PEF | Intercession City | West Lake Wales #2 | 30 | 6 / 2010 | 230 | 1141 | NA |
| TEC | Wheeler Road | Davis | 13 | 6 / 2010 | 230 | 1348 | NA |
| TEC | Gannon | 11th Avenue | 5 | 9 / 2010 | 230 | 1013 | NA |
| PEF | Hines Energy Complex | West Lake Wales #2 | 21 | 5 / 2011 | 230 | 1141 | NA |
| PEF | Intercession City | West Lake Wales #1 | 30 | 6 / 2011 | 230 | 1141 | NA |
| TEC | Davis | Chapman | 8 | 6 / 2011 | 230 | 1013 | NA |
| TEC | Willow Oak | Wheeler Road | 20 | 6 / 2011 | 230 | 1013 | NA |
| FPL | Manatee | BobWhite | 30 | 12 / 2011 | 230 | 1190 | TLSA |
| FPL | Eve | Sweatt | 25 | 6 / 2012 | 230 | 759 | TLSA |
| TEC | Davis Road | Dale Mabry | 14 | 6 / 2012 | 230 | 749 | NA |
| TEC | Polk Power Station | Hardee Power Station | 9 | 6 / 2012 | 230 | 1013 | NA |

# "EXISTING"

# TRANSMISSION MAP

# "FUTURE"
# TRANSMISSION MAP

## ABBREVIATIONS

## ELECTRIC MARKET PARTICIPANTS

| | | |
|---|---|---|
| AEC | - | Alabama Electric Cooperative, Inc. |
| CAL | - | Calpine |
| CPS | - | Constellation Power Source |
| CPV | - | Competitive Power Ventures |
| DYN | - | Dynegy |
| FKE | - | Florida Keys Electric Cooperative Association, Inc. |
| FMD | - | Ft. Meade, City of |
| FMPA | - | Florida Municipal Power Agency |
| FPL | - | Florida Power & Light |
| FTP | - | Ft. Pierce Utilities Authority |
| GRU | - | Gainesville Regional Utilities |
| GPC | - | Gulf Power Company |
| HPP | - | Hardee Power Partners |
| HST | - | Homestead, City of |
| JEA | - | Jacksonville Electric Authority |
| KEY | - | Key West, City of |
| KUA | - | Kissimmee Utility Authority |
| LAK | - | Lakeland, City of |
| LWU | - | Lake Worth Utilities, City of |
| MIR | - | Mirant Americas |
| NSB | - | Utilities Commission of New Smyrna Beach |
| NSG | - | Northern Star Generation |
| OEU | - | Ocala Electric Utility |
| OUC | - | Orlando Utilities Commission |
| PEF | - | Progress Energy Florida |
| PG&E | - | PG&E National Energy Group |
| PGN | - | Progress Energy Ventures |
| RCI | - | Reedy Creek Improvement District |
| RES | - | Reliant Energy Services, Inc. |
| SEC | - | Seminole Electric Cooperative, Inc. |
| SEPA | - | Southeastern Power Administration |
| SCS | - | Southern Company Services |
| SOU | - | Southern Company |
| STC | - | St. Cloud, City of |
| TAL | - | Tallahassee, City of |
| TEA | - | The Energy Authority |
| TEC | - | Tampa Electric Company |
| TPS | - | TECO Power Services |
| VER | - | Vero Beach, City of |
| WAU | - | Wauchula, City of |

OTHER

| | | |
|---|---|---|
| FRCC | - | Florida Reliability Coordinating Council |

## GENERATION TERMS

### Types of Generation Units

| | | |
|---|---|---|
| CA | -- | Combined Cycle Steam Part |
| CC | -- | Combined Cycle Total Unit |
| CE | -- | Compressed Air Energy Storage |
| CS | -- | Combined Cycle Single Shaft |
| CT | -- | Combined Cycle Combustion Turbine Part |
| FC | -- | Fuel Cell |
| GT | -- | Combustion Turbine (includes Jet Engine Design) |
| HY | -- | Hydraulic Turbine |
| IC | -- | Internal Combustion Engine |
| NA | -- | Not Available |
| OT | -- | Other |
| PS | -- | Hydraulic Turbine - Reversible (Pumped Storage) |
| PV | -- | Photovoltaic |
| ST | -- | Steam Turbine, including nuclear, geothermal and solar steam |
| WT | -- | Wind Turbine |

### Fuel Transportation Method

| | | |
|---|---|---|
| CV | -- | Conveyor |
| NA | -- | Not Applicable |
| PL | -- | Pipeline |
| RR | -- | Railroad |
| TK | -- | Truck |
| UN | -- | Unknown at this time |
| WA | -- | Water Transportation |

### Status of Generation Facilities

| | | |
|---|---|---|
| A | -- | Generating unit capability increased |
| CO | -- | Change of ownership (including change of shares of jointly owned units) |
| D | -- | Generating unit capability decreased |
| FC | -- | Existing generator planned for conversion to another fuel or energy source |
| IP | -- | Planned generator indefinitely postponed or canceled |
| L | -- | Regulatory approval pending. Not under construction |
| M | -- | Generating unit put in deactivated shutdown status |
| NS | -- | Merchant Plant - No system impact study, not under construction |
| OP | -- | Operating, available to operate, or on short-term scheduled or forced outage |
| OS | -- | On long-term scheduled or forced outage; not available to operate |
| OT | -- | Other |
| P | -- | Planned for installation but not utility-authorized. Not under construction |
| RA | -- | Previously deactivated or retired generator planned for reactivation |
| RE | -- | Retired |
| RP | -- | Proposed for repowering or life extension |
| RT | -- | Existing generator scheduled for retirement |
| SB | -- | Cold Standby: deactivated, in long-term storage and cannot be made available for service in a short period of time |
| SD | -- | Sold to independent power producer |
| SI | -- | Merchant Plant - System impact study completed, not under construction |
| T | -- | Regulatory approval received but not under construction |
| TS | -- | Construction complete, but not yet in commercial operation |
| U | -- | Under construction, less than or equal to 50% complete |
| V | -- | Under construction, more than 50% complete |

### Types of Fuel

| | | |
|---|---|---|
| AB | -- | Agriculture Byproducts, Bagasse, Straw, Energy Crops |
| BIT | -- | Bituminous Coal |
| BFG | -- | Blast-Furnace Gas |
| BL | -- | Black Liquor |
| DFO | -- | Distillate Fuel Oil (Diesel, No 1 Fuel Oil, No 2 Fuel Oil, No 4 Fuel Oil) |
| GEO | -- | Geothermal |
| JF | -- | Jet Fuel |
| KER | -- | Kerosene |
| LFG | -- | Landfill Gas |
| LIG | -- | Lignite |
| MSW | -- | Municipal Solid Waste |
| NA | -- | Not Available or Not Applicable |
| NG | -- | Natural Gas |
| NUC | -- | Nuclear |
| OBG | -- | Other BioMass Gases |
| OBL | -- | Other BioMass Liquids |
| OBS | -- | Other BioMass Solids |
| OG | -- | Other Gas |
| OO | -- | Other Oil |
| OTH | -- | Other |
| PC | -- | Petroleum Coke |
| PG | -- | Propane |
| RFO | -- | Residual Fuel Oil (No 5 Fuel Oil, No 6 Fuel Oil) |
| SLW | -- | Sludge Waste |
| SUB | -- | Subbituminous Coal |
| SUN | -- | Solar (Photovoltaic, Thermal) |
| TDF | -- | Tires |
| WAT | -- | Water |
| WDS | -- | Wood/Wood Waste Solids |
| WDL | -- | Wood/Wood Waste Liquids |
| WH | -- | Waste Heat |
| WND | -- | Wind |
| WOC | -- | Waste/Other Coal |

### Ownership

| | | |
|---|---|---|
| COG | -- | Cogenerator |
| IPP | -- | Independent Power Producer |
| J | -- | Utility, joint ownership with one or more other utilities |
| MER | -- | Merchant Generator |
| SPP | -- | Small Power Producing qualifying facility |
| U | -- | Utility, single ownership by respondent |

### Contracts

| | | |
|---|---|---|
| C | -- | Contract in place |
| CE | -- | Contract Ends |
| D | -- | Decrease in Contract Amount |
| NC | -- | No Contract |

## CONTRACT TERMS

| | | |
|---|---|---|
| FR | -- | Full requirement service agreement |
| PR | -- | Partial requirement service agreement |
| Schd D | -- | Long term firm capacity and energy interchange agreement |
| Schd E | -- | Non-Firm capacity and energy interchange agreement |
| Schd F | -- | Long term non-firm capacity and energy interchange agreement |
| Schd G | -- | Back-up reserve service |
| Schd J | -- | Contract which the terms and conditions are negotiated yearly |
| UPS | -- | Unit Power Sale |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL

## DEFINITIONS

CAAGR
- Compound Average Annual Growth Rate, usually expressed as a percent.

INTERRUPTIBLE LOAD
- Load which may be disconnected at the supplier's discretion.

LOAD FACTOR
- A percent which is the calculation of NEL / (annual peak demand * the number of hours in the year).

NET CAPABILITY OR NET CAPACITY
- The continous gross capacity, less the power required by all auxillaries associated with the unit.

NET ENERGY FOR LOAD (NEL)
- The net system generation PLUS interchange received MINUS interchange delivered.

PEAK DEMAND OR PEAK LOAD
- The net 60-minute integrated demand, actual or adjusted. Forecasted loads assume normal weather conditions.

PENINSULAR FLORIDA
- Geographically, those Florida utilities located east of the Apalachicola River.

QUALIFYING FACILITY (QF)
- The cogenerator or small power producer which meets FERC criteria for a qualifying facility.

SALES FOR RESALE
- Energy sales to other electric utilities.

STATE OF FLORIDA
- Utilities in Peninsular Florida plus Gulf Power Company, West Florida Electric Cooperative, Choctawhatchee Electric Cooperative, Escambia River Electric Cooperative, Gulf Coast Electric Cooperative, and Alabama Electric Cooperative.

SUMMER
- June 1 through August 31 of each year being studied.

WINTER
- January 1 through March 15.

YEAR
- The calendar year, January 1, through December 31. Unless otherwise indicated, this is the year used for historical and forecast data.

# STATE OF FLORIDA SUPPLEMENT

# TO THE

# FLORIDA RELIABILITY COORDINATING COUNCIL

# 2006

# REGIONAL LOAD & RESOURCE PLAN

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## HISTORY AND FORECAST

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SUMMER PEAK DEMAND (MW) | | | | | WINTER PEAK DEMAND (MW) | | | | ENERGY | | |
| YEAR | ACTUAL PEAK DEMAND (MW) | | | | YEAR | ACTUAL PEAK DEMAND (MW) | | | | YEAR | NET ENERGY FOR LOAD (GWH) | LOAD FACTOR (%) |
| 1996 | 34,551 | | | | 1996 / 97 | 36,930 | | | | 1996 | 184,142 | 56.87% |
| 1997 | 35,254 | | | | 1997 / 98 | 32,896 | | | | 1997 | 186,603 | 57.68% |
| 1998 | 38,526 | | | | 1998 / 99 | 38,281 | | | | 1998 | 199,550 | 59.13% |
| 1999 | 38,767 | | | | 1999 / 00 | 38,659 | | | | 1999 | 200,374 | 59.00% |
| 2000 | 39,582 | | | | 2000 / 01 | 42,333 | | | | 2000 | 207,634 | 59.88% |
| 2001 | 40,823 | | | | 2001 / 02 | 41,780 | | | | 2001 | 212,095 | 57.19% |
| 2002 | 42,279 | | | | 2002 / 03 | 46,880 | | | | 2002 | 222,175 | 59.99% |
| 2003 | 42,949 | | | | 2003 / 04 | 37,944 | | | | 2003 | 232,505 | 56.62% |
| 2004 | 44,886 | | | | 2004 / 05 | 43,541 | | | | 2004 | 233,351 | 59.35% |
| 2005 | 48,688 | | | | 2005 / 06 | 44,871 | | | | 2005 | 240,167 | 56.31% |
| YEAR | TOTAL PEAK DEMAND (MW) | INTER-RUPTIBLE LOAD (MW) | LOAD MANAGE-MENT (MW) | FIRM PEAK DEMAND (MW) | YEAR | TOTAL PEAK DEMAND (MW) | INTER-RUPTIBLE LOAD (MW) | LOAD MANAGE-MENT (MW) | FIRM PEAK DEMAND (MW) | YEAR | NET ENERGY FOR LOAD (GWH) | LOAD FACTOR (%) |
| 2006 | 48,307 | 857 | 1,902 | 45,548 | 2006 / 07 | 51,034 | 869 | 2,635 | 47,530 | 2006 | 246,376 | 58.22% |
| 2007 | 49,588 | 875 | 2,072 | 46,641 | 2007 / 08 | 52,267 | 890 | 2,669 | 48,708 | 2007 | 254,073 | 56.83% |
| 2008 | 50,953 | 884 | 2,117 | 47,952 | 2008 / 09 | 53,603 | 888 | 2,717 | 49,998 | 2008 | 263,783 | 57.61% |
| 2009 | 52,221 | 884 | 2,139 | 49,198 | 2009 / 10 | 54,579 | 862 | 2,728 | 50,989 | 2009 | 272,010 | 57.93% |
| 2010 | 53,272 | 855 | 2,151 | 50,266 | 2010 / 11 | 55,813 | 867 | 2,745 | 52,201 | 2010 | 278,999 | 58.35% |
| 2011 | 54,448 | 859 | 2,166 | 51,423 | 2011 / 12 | 56,923 | 871 | 2,764 | 53,288 | 2011 | 285,714 | 58.44% |
| 2012 | 55,635 | 863 | 2,185 | 52,587 | 2012 / 13 | 58,141 | 874 | 2,792 | 54,475 | 2012 | 292,785 | 58.72% |
| 2013 | 56,888 | 867 | 2,208 | 53,813 | 2013 / 14 | 59,356 | 878 | 2,822 | 55,656 | 2013 | 299,752 | 58.85% |
| 2014 | 58,093 | 871 | 2,233 | 54,989 | 2014 / 15 | 60,802 | 882 | 2,852 | 57,068 | 2014 | 306,855 | 59.02% |
| 2015 | 59,461 | 875 | 2,237 | 56,349 | 2015 / 16 | 62,374 | 886 | 2,844 | 58,644 | 2015 | 314,103 | 58.97% |

NOTE: FORECASTED SUMMER AND WINTER DEMANDS ARE NON-COINCIDENT.

**2006**
**LOAD AND RESOURCE PLAN**
**STATE OF FLORIDA**

**FRCC Form 4.0**
**HISTORY AND FORECAST OF ENERGY CONSUMPTION AND NUMBER OF CUSTOMERS BY CUSTOMER CLASS**
**AS OF JANUARY 1, 2006**

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RURAL & RESIDENTIAL | | | COMMERCIAL | | | INDUSTRIAL | | | | | | | | | |
| | YEAR | GWH | AVERAGE NO. OF CUSTOMERS | AVG. KWH CONSUMPTION PER CUST. | GWH | AVERAGE NO. OF CUSTOMERS | AVG. KWH CONSUMPTION PER CUST. | GWH | AVERAGE NO. OF CUSTOMERS | AVG. KWH CONSUMPTION PER CUST. | STREET & HIGHWAY LIGHTING GWH | OTHER SALES GWH | TOTAL SALES GWH | WHOLESALE PURCHASES FOR RESALE GWH | WHOLESALE SALES FOR RESALE GWH | UTILITY USE & LOSSES GWH | NET ENERGY FOR LOAD GWH |
| | 1996 | 85,207 | 6,354,461 | 13,409 | 55,895 | 762,752 | 73,281 | 20,146 | 25,804 | 780,732 | 617 | 5,432 | 167,297 | 0 | 0 | 16,845 | 184,142 |
| | 1997 | 84,847 | 6,482,244 | 13,089 | 58,541 | 781,160 | 74,941 | 20,610 | 26,213 | 786,251 | 638 | 5,718 | 170,354 | 0 | 0 | 16,249 | 186,603 |
| | 1998 | 92,637 | 6,613,532 | 14,007 | 62,164 | 801,200 | 77,589 | 21,393 | 27,257 | 784,863 | 632 | 4,603 | 181,429 | 0 | 0 | 18,121 | 199,550 |
| | 1999 | 92,386 | 7,023,628 | 13,154 | 66,022 | 860,010 | 76,769 | 21,132 | 31,529 | 670,240 | 814 | 4,324 | 184,678 | 0 | 0 | 15,696 | 200,374 |
| | 2000 | 97,258 | 7,047,302 | 13,801 | 68,945 | 869,460 | 79,296 | 21,343 | 28,556 | 747,409 | 799 | 4,521 | 192,866 | 0 | 7,850 | 22,618 | 207,634 |
| | 2001 | 99,765 | 7,220,385 | 13,817 | 71,616 | 895,278 | 79,993 | 21,621 | 28,192 | 766,920 | 773 | 4,313 | 198,088 | 0 | 9,180 | 23,187 | 212,095 |
| | 2002 | 106,451 | 7,383,245 | 14,418 | 73,814 | 913,237 | 80,827 | 22,040 | 28,612 | 770,306 | 789 | 4,503 | 207,597 | 0 | 8,660 | 23,238 | 222,175 |
| | 2003 | 110,821 | 7,563,255 | 14,653 | 75,645 | 932,664 | 81,106 | 22,468 | 31,077 | 722,978 | 797 | 4,775 | 214,506 | 0 | 9,345 | 27,344 | 232,505 |
| | 2004 | 110,366 | 7,767,696 | 14,208 | 76,391 | 955,897 | 79,916 | 23,187 | 33,989 | 682,191 | 796 | 4,898 | 215,638 | 0 | 10,224 | 27,937 | 233,351 |
| | 2005 | 114,156 | 7,962,111 | 14,337 | 78,809 | 981,885 | 80,263 | 23,431 | 36,188 | 647,480 | 813 | 5,099 | 222,308 | 0 | 11,370 | 29,229 | 240,167 |
| 96-2005 | % AAGR | 3.30% | | | 3.89% | | | 1.69% | | | | | | | | | 3.00% |
| | 2006 | 118,025 | 8,147,858 | 14,485 | 80,228 | 1,005,687 | 79,774 | 23,581 | 37,634 | 626,588 | 875 | 5,155 | 227,864 | 0 | 9,499 | 28,011 | 246,376 |
| | 2007 | 121,451 | 8,323,498 | 14,591 | 83,599 | 1,028,674 | 81,269 | 24,051 | 37,432 | 642,525 | 902 | 5,319 | 235,322 | 0 | 9,946 | 28,697 | 254,073 |
| | 2008 | 125,697 | 8,495,211 | 14,796 | 87,508 | 1,050,795 | 83,278 | 24,630 | 37,265 | 660,942 | 933 | 5,479 | 244,247 | 0 | 9,053 | 28,589 | 263,783 |
| | 2009 | 129,723 | 8,668,479 | 14,965 | 90,743 | 1,073,307 | 84,545 | 25,056 | 37,249 | 672,662 | 961 | 5,639 | 252,122 | 0 | 9,084 | 28,972 | 272,010 |
| | 2010 | 133,268 | 8,810,748 | 15,126 | 93,427 | 1,089,479 | 85,754 | 25,211 | 37,368 | 674,668 | 987 | 5,791 | 258,684 | 0 | 9,838 | 30,153 | 278,999 |
| | 2011 | 136,638 | 8,976,488 | 15,222 | 95,874 | 1,110,248 | 86,354 | 25,571 | 37,828 | 675,981 | 1,008 | 5,947 | 265,038 | 0 | 9,790 | 30,466 | 285,714 |
| | 2012 | 140,145 | 9,141,049 | 15,331 | 98,463 | 1,130,789 | 87,075 | 25,950 | 38,216 | 679,035 | 1,031 | 6,103 | 271,692 | 0 | 9,947 | 31,040 | 292,785 |
| | 2013 | 143,686 | 9,305,890 | 15,440 | 101,106 | 1,151,225 | 87,825 | 26,323 | 38,765 | 679,040 | 1,054 | 6,258 | 278,427 | 0 | 10,089 | 31,414 | 299,752 |
| | 2014 | 147,139 | 9,471,772 | 15,534 | 103,904 | 1,171,693 | 88,679 | 26,696 | 39,397 | 677,615 | 1,078 | 6,417 | 285,234 | 0 | 10,172 | 31,793 | 306,855 |
| | 2015 | 150,575 | 9,639,008 | 15,621 | 106,765 | 1,192,183 | 89,554 | 27,070 | 40,088 | 675,264 | 1,101 | 6,582 | 292,093 | 0 | 10,357 | 32,367 | 314,103 |
| 06-2015 | % AAGR | 2.74% | | | 3.23% | | | 1.54% | | | | | | | | | 2.74% |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## FRCC Form 5.0
## HISTORY AND FORECAST OF SUMMER PEAK DEMAND (MW)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|
| | [(3)+(4)+(5)+(6)+(7)+(8)+(9)] | | | | | | | |
| | | DEMAND REDUCTION | | | | | | SUMMER |
| YEAR | SUMMER TOTAL DEMAND | INTERRUPTIBLE LOAD | RESIDENTIAL LOAD MANAGEMENT | COMM./IND. LOAD MANAGEMENT | QF LOAD SERVED BY QF GENERATION | CUMULATIVE CONSERVATION RESIDENTIAL | CUMULATIVE CONSERVATION COMM./IND. | NET FIRM PEAK DEMAND |
| 2004 | 47,443 | 61 | 77 | 2 | 441 | 1,134 | 842 | 44,886 |
| 2005 | 51,592 | 254 | 184 | 8 | 367 | 1,209 | 882 | 48,688 |
| 2006 | 51,089 | 857 | 1,223 | 679 | 525 | 1,319 | 938 | 45,548 |
| 2007 | 52,477 | 875 | 1,322 | 750 | 533 | 1,380 | 976 | 46,641 |
| 2008 | 53,938 | 884 | 1,329 | 788 | 533 | 1,445 | 1,007 | 47,952 |
| 2009 | 55,296 | 884 | 1,330 | 809 | 533 | 1,512 | 1,030 | 49,198 |
| 2010 | 56,448 | 855 | 1,328 | 823 | 548 | 1,581 | 1,047 | 50,266 |
| 2011 | 57,725 | 859 | 1,330 | 836 | 559 | 1,653 | 1,065 | 51,423 |
| 2012 | 59,007 | 863 | 1,335 | 850 | 565 | 1,726 | 1,081 | 52,587 |
| 2013 | 60,351 | 867 | 1,344 | 864 | 565 | 1,801 | 1,097 | 53,813 |
| 2014 | 61,648 | 871 | 1,356 | 877 | 565 | 1,878 | 1,112 | 54,989 |
| 2015 | 63,107 | 875 | 1,355 | 882 | 565 | 1,954 | 1,127 | 56,349 |
| | | | | | | | CAAGR (%): | 2.39% |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## FRCC Form 6.0
## HISTORY AND FORECAST OF WINTER PEAK DEMAND (MW)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|
| | [(3)+(4)+(5)+(6)+(7)+(8)+(9)] | | | | | | | |
| | | DEMAND REDUCTION | | | | | | |
| YEAR | WINTER TOTAL DEMAND | INTERRUPTIBLE LOAD | RESIDENTIAL LOAD MANAGEMENT | COMM./IND. LOAD MANAGEMENT | QF LOAD SERVED BY QF GENERATION | CUMULATIVE CONSERVATION RESIDENTIAL | CUMULATIVE CONSERVATION COMM./IND. | WINTER NET FIRM PEAK DEMAND |
| 2004/05 | 46,005 | 66 | 91 | 0 | 378 | 1,524 | 405 | 43,541 |
| 2005/06 | 47,397 | 60 | 104 | 0 | 342 | 1,603 | 417 | 44,871 |
| 2006/07 | 53,698 | 869 | 1,981 | 654 | 510 | 1,713 | 441 | 47,530 |
| 2007/08 | 55,024 | 890 | 1,989 | 680 | 510 | 1,793 | 454 | 48,708 |
| 2008/09 | 56,455 | 888 | 2,010 | 707 | 510 | 1,874 | 468 | 49,998 |
| 2009/10 | 57,536 | 862 | 2,012 | 716 | 525 | 1,956 | 476 | 50,989 |
| 2010/11 | 58,877 | 867 | 2,020 | 725 | 536 | 2,042 | 486 | 52,201 |
| 2011/12 | 60,093 | 871 | 2,031 | 733 | 542 | 2,132 | 496 | 53,288 |
| 2012/13 | 61,415 | 874 | 2,049 | 743 | 542 | 2,225 | 507 | 54,475 |
| 2013/14 | 62,730 | 878 | 2,070 | 752 | 542 | 2,315 | 517 | 55,656 |
| 2014/15 | 64,273 | 882 | 2,093 | 759 | 542 | 2,403 | 526 | 57,068 |
| 2015/16 | 65,943 | 886 | 2,079 | 765 | 542 | 2,491 | 536 | 58,644 |
| | | | | | | | CAAGR (%): | 2.36% |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## FRCC Form 7.0
## HISTORY AND FORECAST OF ANNUAL NET ENERGY FOR LOAD (GWH)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|---|---|---|---|---|---|---|---|---|
| | [(3)+(4)+(5)+(6)+(7)+(8)+(9)] | | | | | | | |
| | | DEMAND REDUCTION | | | | | | |
| YEAR | TOTAL ENERGY FOR LOAD | INTERRUPTIBLE LOAD | RESIDENTIAL LOAD MANAGEMENT | COMM./IND. LOAD MANAGEMENT | QF LOAD SERVED BY QF GENERATION | CUMULATIVE CONSERVATION RESIDENTIAL | CUMULATIVE CONSERVATION COMM./IND. | NET ENERGY FOR LOAD |
| 2004 | 242,131 | 1 | 2 | 0 | 3,383 | 3,036 | 2,358 | 233,351 |
| 2005 | 249,524 | 1 | 12 | 7 | 3,673 | 3,190 | 2,474 | 240,167 |
| 2006 | 255,924 | 0 | 2 | 0 | 3,594 | 3,380 | 2,572 | 246,376 |
| 2007 | 263,902 | 0 | 2 | 0 | 3,664 | 3,507 | 2,656 | 254,073 |
| 2008 | 273,798 | 0 | 2 | 0 | 3,665 | 3,639 | 2,709 | 263,783 |
| 2009 | 282,203 | 0 | 2 | 0 | 3,664 | 3,778 | 2,749 | 272,010 |
| 2010 | 289,494 | 0 | 3 | 0 | 3,797 | 3,922 | 2,773 | 278,999 |
| 2011 | 296,485 | 0 | 3 | 0 | 3,897 | 4,074 | 2,797 | 285,714 |
| 2012 | 303,784 | 0 | 3 | 0 | 3,948 | 4,227 | 2,821 | 292,785 |
| 2013 | 310,932 | 0 | 3 | 0 | 3,947 | 4,385 | 2,845 | 299,752 |
| 2014 | 318,220 | 0 | 3 | 0 | 3,947 | 4,546 | 2,869 | 306,855 |
| 2015 | 325,648 | 0 | 3 | 0 | 3,947 | 4,704 | 2,891 | 314,103 |
| | | | | | | | CAAGR (%): | 2.74% |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## SUMMARY OF INTERRUPTIBLE LOAD AND LOAD MANAGEMENT (MW)
## 2006 THROUGH 2015

## SUMMER

| YEAR | GPC | FRCC TOTALS | | | STATE TOTALS | | | STATE TOTAL INT + LM |
|---|---|---|---|---|---|---|---|---|
| | INT + LM | INT | RES LM | COM LM | INT | RES LM | COM LM | |
| 2006 | 0 | 857 | 1,223 | 679 | 857 | 1,223 | 679 | 2,759 |
| 2007 | 0 | 875 | 1,322 | 750 | 875 | 1,322 | 750 | 2,947 |
| 2008 | 0 | 884 | 1,329 | 788 | 884 | 1,329 | 788 | 3,001 |
| 2009 | 0 | 884 | 1,330 | 809 | 884 | 1,330 | 809 | 3,023 |
| 2010 | 0 | 855 | 1,328 | 823 | 855 | 1,328 | 823 | 3,006 |
| 2011 | 0 | 859 | 1,330 | 836 | 859 | 1,330 | 836 | 3,025 |
| 2012 | 0 | 863 | 1,335 | 850 | 863 | 1,335 | 850 | 3,048 |
| 2013 | 0 | 867 | 1,344 | 864 | 867 | 1,344 | 864 | 3,075 |
| 2014 | 0 | 871 | 1,356 | 877 | 871 | 1,356 | 877 | 3,104 |
| 2015 | 0 | 875 | 1,355 | 882 | 875 | 1,355 | 882 | 3,112 |

## WINTER

| YEAR | GPC | FRCC TOTALS | | | STATE TOTALS | | | STATE TOTAL INT + LM |
|---|---|---|---|---|---|---|---|---|
| | INT + LM | INT | RES LM | COM LM | INT | RES LM | COM LM | |
| 2006/07 | 0 | 869 | 1,981 | 654 | 869 | 1,981 | 654 | 3,504 |
| 2007/08 | 0 | 890 | 1,989 | 680 | 890 | 1,989 | 680 | 3,559 |
| 2008/09 | 0 | 888 | 2,010 | 707 | 888 | 2,010 | 707 | 3,605 |
| 2009/10 | 0 | 862 | 2,012 | 716 | 862 | 2,012 | 716 | 3,590 |
| 2010/11 | 0 | 867 | 2,020 | 725 | 867 | 2,020 | 725 | 3,612 |
| 2011/12 | 0 | 871 | 2,031 | 733 | 871 | 2,031 | 733 | 3,635 |
| 2012/13 | 0 | 874 | 2,049 | 743 | 874 | 2,049 | 743 | 3,666 |
| 2013/14 | 0 | 878 | 2,070 | 752 | 878 | 2,070 | 752 | 3,700 |
| 2014/15 | 0 | 882 | 2,093 | 759 | 882 | 2,093 | 759 | 3,734 |
| 2015/16 | 0 | 886 | 2,079 | 765 | 886 | 2,079 | 765 | 3,730 |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA
## SUMMARY OF EXISTING CAPACITY
## AS OF JANUARY 1, 2006

| UTILITY | NET CAPABILITY (MW) SUMMER | WINTER |
|---|---|---|
| ALABAMA ELECTRIC COOPERATIVE INC | 1,674 | 1,736 |
| GULF POWER COMPANY | 2,796 | 2,824 |
| **TOTALS:** | | |
| FRCC REGION: | 43,966 | 47,033 |
| STATE OF FLORIDA: | 48,436 | 51,593 |
| FRCC NON-UTILITY GENERATING FACILITIES (FIRM): | 1,992 | 2,064 |
| FRCC MERCHANT PLANT FACILITIES (FIRM): | 2,686 | 2,376 |
| TOTAL STATE NON-UTILITY GENERATING FACILITIES: | 4,683 | 4,445 |
| **TOTAL FRCC Region:** | **48,645** | **51,473** |
| **TOTAL STATE OF FLORIDA:** | **53,120** | **56,038** |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA
# FRCC Form 1.0
# EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| ALABAMA ELECTRIC COOPERATIVE INC | | | | | | | | | | | | | | | |
| CHARLES R. LOWMAN | 1 | WASHINGTON AL | ST | BIT | WA | --- | --- | 0 | 6 / 1969 | --- / --- | 80 | 80 | 80 | 80 | OP |
| CHARLES R. LOWMAN | 2 | WASHINGTON AL | ST | BIT | WA | --- | --- | 0 | 6 / 1978 | --- / --- | 238 | 238 | 238 | 238 | OP |
| CHARLES R. LOWMAN | 3 | WASHINGTON AL | ST | BIT | WA | --- | --- | 0 | 6 / 1980 | --- / --- | 238 | 238 | 238 | 238 | OP |
| GANTT | 3 | COVINGTON AL | HY | WAT | WA | --- | --- | 0 | 1 / 1926 | --- / --- | 1 | 1 | 1 | 1 | OP |
| GANTT | 4 | COVINGTON AL | HY | WAT | WA | --- | --- | 0 | 2 / 1945 | --- / --- | 1 | 1 | 1 | 1 | OP |
| JAMES H. MILLER JR. (684/705) * | 1 | JEFFERSON AL | ST | BIT | WA | --- | --- | 0 | 6 / 1978 | --- / --- | 57 | 57 | 57 | 57 | OP |
| JAMES H. MILLER JR. (684/705) * | 2 | JEFFERSON AL | ST | BIT | WA | --- | --- | 0 | 6 / 1985 | --- / --- | 57 | 57 | 57 | 57 | OP |
| MCINTOSH | 1 | WASHINGTON AL | CE | NG | PL | --- | --- | 0 | 6 / 1991 | --- / --- | 110 | 110 | 110 | 110 | OP |
| MCINTOSH | 2 | WASHINGTON AL | GT | NG | PL | DFO | TK | 0 | 6 / 1998 | --- / --- | 114 | 120 | 114 | 120 | OP |
| MCINTOSH | 3 | WASHINGTON AL | GT | NG | PL | DFO | TK | 0 | 6 / 1998 | --- / --- | 114 | 120 | 114 | 120 | OP |
| MCWILLIAMS | 1 | COVINGTON AL | CA | NG | PL | --- | --- | 0 | 12 / 1954 | --- / --- | 10 | 10 | 10 | 10 | OP |
| MCWILLIAMS | 2 | COVINGTON AL | CA | NG | PL | --- | --- | 0 | 12 / 1954 | --- / --- | 10 | 10 | 10 | 10 | OP |
| MCWILLIAMS | 3 | COVINGTON AL | CA | NG | PL | --- | --- | 0 | 8 / 1959 | --- / --- | 20 | 20 | 20 | 20 | OP |
| MCWILLIAMS | 4 | COVINGTON AL | GT | NG | PL | DFO | TK | 0 | 12 / 1996 | --- / --- | 109 | 119 | 109 | 119 | OP |
| MCWILLIAMS | VAN1 | COVINGTON AL | CT | NG | PL | --- | --- | 0 | 1 / 2002 | --- / --- | 163 | 177 | 163 | 177 | OP |
| MCWILLIAMS | VAN2 | COVINGTON AL | CT | NG | PL | --- | --- | 0 | 1 / 2002 | --- / --- | 163 | 177 | 163 | 177 | OP |
| MCWILLIAMS | VAN3 | COVINGTON AL | CA | NG | PL | --- | --- | 0 | 1 / 2002 | --- / --- | 176 | 186 | 176 | 186 | OP |
| POINT A | 1 | COVINGTON AL | HY | WAT | WA | --- | --- | 0 | 1 / 1945 | --- / --- | 2 | 2 | 2 | 2 | OP |
| POINT A | 2 | COVINGTON AL | HY | WAT | WA | --- | --- | 0 | 1 / 1925 | --- / --- | 2 | 2 | 2 | 2 | OP |
| POINT A | 3 | COVINGTON AL | HY | WAT | WA | --- | --- | 0 | 1 / 1949 | --- / --- | 2 | 2 | 2 | 2 | OP |
| PORTLAND | 1 | WALTON | CT | DFO | TK | --- | --- | 0 | 3 / 1964 | --- / --- | 7 | 9 | 7 | 9 | OP |
| | | | | | | | | | | | AEC TOTAL: | | 1,674 | 1,736 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA
# FRCC Form 1.0
# EXISTING GENERATING FACILITIES AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) (11) | (12) | (13) | | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PRIMARY FUEL | | ALTERNATE FUEL | | ALT. FUEL STORAGE | COMMERCIAL | EXPECTED | GROSS CAPABILITY | | NET CAPABILITY | | |
| PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | FUEL TYPE | TRANSP. METHOD | FUEL TYPE | TRANSP. METHOD | (DAYS BURN) | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | SUMMER (MW) | WINTER (MW) | SUMMER (MW) | WINTER (MW) | STATUS |
| GULF POWER COMPANY | | | | | | | | | | | | | | | |
| CRIST | 2 | ESCAMBIA | ST | NG | PL | RFO | TK | 0 | 6 / 1949 | 5 / 2006 | 25 | 25 | 24 | 24 | OP |
| CRIST | 3 | ESCAMBIA | ST | NG | PL | RFO | TK | 0 | 9 / 1952 | 5 / 2006 | 37 | 37 | 35 | 35 | OP |
| CRIST | 4 | ESCAMBIA | ST | BIT | WA | NG | PL | | 7 / 1959 | 12 / 2014 | 82 | 82 | 78 | 78 | OP |
| CRIST | 5 | ESCAMBIA | ST | BIT | WA | NG | PL | | 6 / 1961 | 12 / 2016 | 82 | 82 | 80 | 80 | OP |
| CRIST | 6 | ESCAMBIA | ST | BIT | WA | NG | PL | 0 | 5 / 1970 | 12 / 2025 | 320 | 320 | 302 | 302 | OP |
| CRIST | 7 | ESCAMBIA | ST | BIT | WA | NG | PL | 0 | 8 / 1973 | 12 / 2028 | 500 | 500 | 477 | 477 | OP |
| DANIEL (549/549) * | 1 | JACKSON MS | ST | BIT | RR | RFO | TK | 0 | 9 / 1977 | 12 / 2022 | 270 | 270 | 264 | 264 | OP |
| DANIEL (549/549) * | 2 | JACKSON MS | ST | BIT | RR | RFO | TK | 0 | 6 / 1981 | 12 / 2026 | 270 | 270 | 264 | 264 | OP |
| LANSING SMITH | 1 | BAY | ST | BIT | WA | --- | --- | 0 | 6 / 1965 | 12 / 2020 | 172 | 172 | 162 | 162 | OP |
| LANSING SMITH | 2 | BAY | ST | BIT | WA | --- | --- | 0 | 6 / 1967 | 12 / 2022 | 201 | 201 | 189 | 189 | OP |
| LANSING SMITH | 3A | BAY | CT | NG | PL | --- | --- | 0 | 4 / 2002 | --- / --- | | | | | OP |
| LANSING SMITH | 3B | BAY | CT | NG | PL | --- | --- | 0 | 4 / 2002 | --- / --- | | | | | OP |
| LANSING SMITH | 3S | BAY | CA | NG | PL | --- | --- | 0 | 4 / 2002 | 12 / 2027 | 577 | 595 | 566 | 584 | OP |
| LANSING SMITH | A | BAY | GT | DFO | TK | --- | --- | 0 | 5 / 1971 | 12 / 2017 | 32 | 40 | 32 | 40 | OP |
| PEA RIDGE | 1 | SANTA ROSA | GT | NG | PL | --- | --- | 0 | 5 / 1998 | --- / --- | 4 | 5 | 4 | 4.6 | OP |
| PEA RIDGE | 2 | SANTA ROSA | GT | NG | PL | --- | --- | 0 | 5 / 1998 | --- / --- | 4 | 5 | 4 | 4.6 | OP |
| PEA RIDGE | 3 | SANTA ROSA | GT | NG | PL | --- | --- | 0 | 5 / 1998 | --- / --- | 4 | 5 | 4 | 4.6 | OP |
| SCHERER (915/915) * | 3 | MONROE GA | ST | BIT | RR | --- | --- | 0 | 1 / 1987 | 12 / 2042 | 229 | 229 | 219 | 219 | OP |
| SCHOLZ | 1 | JACKSON | ST | BIT | RR | --- | --- | | 3 / 1953 | 12 / 2011 | 49 | 49 | 46 | 46 | OP |
| SCHOLZ | 2 | JACKSON | ST | BIT | RR | --- | --- | | 10 / 1953 | 12 / 2011 | 48 | 48 | 46 | 46 | OP |
| | | | | | | | | | | | GPC TOTAL: | | 2,796 | 2,824 | |
| | | | | | | | | | | | FRCC TOTAL: | | 43,966 | 47,033 | |
| | | | | | | | | | | | STATE TOTAL: | | 48,436 | 51,593 | |

* Total Gross Capability for Jointly Owned Unit (Summer/Winter)

2006
LOAD AND RESOURCE PLAN
STATE OF FLORIDA
FRCC Form 1.1
PLANNED AND PROSPECTIVE GENERATING FACILITY ADDITIONS AND CHANGES
(JANUARY 1, 2006 THROUGH DECEMBER 31, 2015)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UTILITY | POWER PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | PRIMARY FUEL TYPE | PRIMARY FUEL TRANS. | ALTERNATE FUEL TYPE | ALTERNATE FUEL TRANS. | ALT. FUEL STORAGE (DAYS BURN) | COMMERICAL IN-SERVICE OR RETIREMENT MO. / YEAR | GROSS CAPABILITY SUMMER (MW) | GROSS CAPABILITY WINTER (MW) | NET CAPABILITY SUMMER (MW) | NET CAPABILITY WINTER (MW) | STATUS |
| | **2006** | | | | | | | | | | | | | | |
| GPC | CRIST | 2 | ESCAMBIA | ST | NG | PL | RFO | TK | 0 | 5 / 2006 | -25 | -25 | -24 | -24 | RT |
| GPC | CRIST | 3 | ESCAMBIA | ST | NG | PL | RFO | TK | 0 | 5 / 2006 | -37 | -37 | -35 | -35 | RT |
| GPC | LANSING SMITH | 2 | BAY | ST | BIT | WA | --- | --- | 0 | 6 / 2006 | 6 | 6 | 6 | 6 | A |
| GPC | LANSING SMITH | 3S | BAY | CA | NG | PL | --- | --- | 0 | 6 / 2006 | -10 | 0 | -10 | 0 | D |
| | | | | | | | | | | **2006 TOTAL:** | | | **-63** | **-53** | |
| | **2007** | | | | | | | | | | | | | | |
| | **2008** | | | | | | | | | | | | | | |
| | **2009** | | | | | | | | | | | | | | |
| AEC | UNSITED | 1 | UNKNOWN | CT | NG | PL | NA | UN | 0 | 6 / 2009 | 98 | 119 | 98 | 119 | P |
| | | | | | | | | | | **2009 TOTAL:** | | | **98** | **119** | |
| | **2010** | | | | | | | | | | | | | | |
| GPC | CRIST | 6 | ESCAMBIA | ST | BIT | WA | NG | PL | --- | 6 / 2010 | -6 | -6 | -6 | -6 | D |
| GPC | CRIST | 7 | ESCAMBIA | ST | BIT | WA | NG | PL | 0 | 6 / 2010 | -9 | -9 | -9 | -9 | D |
| | | | | | | | | | | **2010 TOTAL:** | | | **-15** | **-15** | |
| | **2011** | | | | | | | | | | | | | | |
| AEC | UNSITED | 2 | UNKNOWN | CT | NG | PL | NA | UN | 0 | 6 / 2011 | 98 | 119 | 98 | 119 | P |
| GPC | SCHOLZ | 1 | JACKSON | ST | BIT | RR | --- | --- | 0 | 12 / 2011 | -49 | -49 | -46 | -46 | RT |
| GPC | SCHOLZ | 2 | JACKSON | ST | BIT | RR | --- | --- | 0 | 12 / 2011 | -49 | -49 | -46 | -46 | RT |
| | | | | | | | | | | **2011 TOTAL:** | | | **6** | **27** | |

2006
LOAD AND RESOURCE PLAN
STATE OF FLORIDA
FRCC Form 1.1
PLANNED AND PROSPECTIVE GENERATING FACILITY ADDITIONS AND CHANGES
(JANUARY 1, 2006 THROUGH DECEMBER 31, 2015)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UTILITY | POWER PLANT NAME | UNIT NO. | LOCATION | UNIT TYPE | PRIMARY FUEL TYPE | PRIMARY FUEL TRANS. | ALTERNATE FUEL TYPE | ALTERNATE FUEL TRANS. | ALT. FUEL STORAGE (DAYS BURN) | COMMERICAL IN-SERVICE OR RETIREMENT MO. / YEAR | GROSS CAPABILITY SUMMER (MW) | GROSS CAPABILITY WINTER (MW) | NET CAPABILITY SUMMER (MW) | NET CAPABILITY WINTER (MW) | STATUS |
| | 2012 | | | | | | | | | | | | | | |
| GPC | DANIEL | 1 | JACKSON MS | ST | BIT | RR | RFO | TK | 0 | 6 / 2012 | -1 | -1 | -1 | -1 | D |
| GPC | DANIEL | 2 | JACKSON MS | ST | BIT | RR | RFO | TK | 0 | 6 / 2012 | -1 | -1 | -1 | -1 | D |
| | | | | | | | | | | | 2012 TOTAL: | | -2 | -2 | |
| | 2013 | | | | | | | | | | | | | | |
| AEC | UNSITED | 3 | UNKNOWN | CT | NG | PL | NA | UN | 0 | 6 / 2013 | 98 | 119 | 98 | 119 | P |
| | | | | | | | | | | | 2013 TOTAL: | | 98 | 119 | |
| | 2014 | | | | | | | | | | | | | | |
| GPC | DANIEL | 1 | JACKSON MS | ST | BIT | RR | RFO | TK | --- | 6 / 2014 | -5 | -5 | -5 | -5 | D |
| GPC | DANIEL | 2 | JACKSON MS | ST | BIT | RR | RFO | TK | 0 | 6 / 2014 | -5 | -5 | -5 | -5 | D |
| GPC | UNLOCATED UNIT | A | UNKNOWN | CC | NG | PL | NA | NA | 0 | 6 / 2014 | 611 | 631 | 600 | 620 | P |
| AEC | UNSITED | 4 | UNKNOWN | CT | NG | PL | NA | UN | 0 | 6 / 2014 | 98 | 119 | 98 | 119 | P |
| GPC | CRIST | 4 | ESCAMBIA | ST | BIT | WA | NG | PL | --- | 12 / 2014 | -82 | -82 | -78 | -78 | D |
| | | | | | | | | | | | 2014 TOTAL: | | 610 | 651 | |
| | 2015 | | | | | | | | | | | | | | |

| | | |
|---|---|---|
| FRCC FUTURE TOTAL: | 16,617 | 17,858 |
| STATE FUTURE TOTAL: | 17,349 | 18,704 |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## FRCC Form 10
### SUMMARY OF CAPACITY, DEMAND, AND RESERVE MARGIN AT TIME OF SUMMER PEAK

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | NET | PROJECTED | | | RESERVE MARGIN W/O EXERCISING LOAD MANAGEMENT & INT. | | | RESERVE MARGIN WITH EXERCISING LOAD MANAGEMENT & INT. | |
| YEAR | INSTALLED CAPACITY (MW) | CONTRACTED FIRM INTERCHANGE (MW) | FIRM NET TO GRID NUG + MERCH (MW) | TOTAL AVAILABLE CAPACITY (MW) | TOTAL PEAK DEMAND (MW) | (MW) | % OF PEAK | FIRM PEAK DEMAND (MW) | (MW) | % OF PEAK |
| 2006 | 48,614 | 1,341 | 5,503 | 55,458 | 48,307 | 7,151 | 15% | 45,548 | 9,910 | 22% |
| 2007 | 50,413 | 1,341 | 5,277 | 57,031 | 49,588 | 7,443 | 15% | 46,641 | 10,390 | 22% |
| 2008 | 51,410 | 1,341 | 5,384 | 58,135 | 50,953 | 7,182 | 14% | 47,952 | 10,183 | 21% |
| 2009 | 53,895 | 1,791 | 5,983 | 61,669 | 52,221 | 9,448 | 18% | 49,198 | 12,471 | 25% |
| 2010 | 55,909 | 1,581 | 5,273 | 62,763 | 53,272 | 9,491 | 18% | 50,266 | 12,497 | 25% |
| 2011 | 57,007 | 1,581 | 5,066 | 63,653 | 54,448 | 9,205 | 17% | 51,423 | 12,230 | 24% |
| 2012 | 59,604 | 1,581 | 4,985 | 66,170 | 55,635 | 10,535 | 19% | 52,587 | 13,583 | 26% |
| 2013 | 62,127 | 1,581 | 4,331 | 68,039 | 56,888 | 11,151 | 20% | 53,813 | 14,226 | 26% |
| 2014 | 64,317 | 1,131 | 3,846 | 69,294 | 58,093 | 11,201 | 19% | 54,989 | 14,305 | 26% |
| 2015 | 65,536 | 1,131 | 4,174 | 70,841 | 59,461 | 11,380 | 19% | 56,349 | 14,492 | 26% |

### SUMMARY OF CAPACITY, DEMAND, AND RESERVE MARGIN AT TIME OF WINTER PEAK

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | NET | PROJECTED | | | RESERVE MARGIN W/O EXERCISING LOAD MANAGEMENT & INT. | | | RESERVE MARGIN WITH EXERCISING LOAD MANAGEMENT & INT. | |
| YEAR | INSTALLED CAPACITY (MW) | CONTRACTED FIRM INTERCHANGE (MW) | FIRM NET TO GRID NUG + MERCH (MW) | TOTAL AVAILABLE CAPACITY (MW) | TOTAL PEAK DEMAND (MW) | (MW) | % OF PEAK | FIRM PEAK DEMAND (MW) | (MW) | % OF PEAK |
| 2006 / 07 | 52,138 | 1,341 | 5,499 | 58,978 | 51,034 | 7,944 | 16% | 47,530 | 11,448 | 24% |
| 2007 / 08 | 54,266 | 1,341 | 5,904 | 61,512 | 52,267 | 9,245 | 18% | 48,708 | 12,804 | 26% |
| 2008 / 09 | 55,778 | 1,341 | 5,712 | 62,832 | 53,603 | 9,229 | 17% | 49,998 | 12,834 | 26% |
| 2009 / 10 | 58,015 | 1,791 | 5,632 | 65,438 | 54,579 | 10,859 | 20% | 50,989 | 14,449 | 28% |
| 2010 / 11 | 60,028 | 1,581 | 5,614 | 67,224 | 55,813 | 11,411 | 20% | 52,201 | 15,023 | 29% |
| 2011 / 12 | 61,089 | 1,651 | 5,535 | 68,275 | 56,923 | 11,352 | 20% | 53,288 | 14,987 | 28% |
| 2012 / 13 | 64,462 | 1,581 | 4,728 | 70,771 | 58,141 | 12,630 | 22% | 54,475 | 16,296 | 30% |
| 2013 / 14 | 66,656 | 1,581 | 5,124 | 73,361 | 59,356 | 14,005 | 24% | 55,656 | 17,705 | 32% |
| 2014 / 15 | 68,512 | 1,131 | 4,383 | 74,026 | 60,802 | 13,224 | 22% | 57,068 | 16,958 | 30% |
| 2015 / 16 | 70,296 | 719 | 4,278 | 75,293 | 62,374 | 12,919 | 21% | 58,644 | 16,649 | 28% |

NOTE: COLUMN 9: "FIRM PEAK DEMAND" = TOTAL PEAK DEMAND - INTERRUPTIBLE LOAD - LOAD MANAGEMENT.

2006
LOAD AND RESOURCE PLAN
STATE OF FLORIDA

FRCC Form 3.0
EXISTING NON-UTILITY, QF, AND SELF SERVICE GENERATION FACILITIES
AS OF DECEMBER 31, 2005

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | | |
| | | | | FIRM | | UNCOMMITTED | | | | | | | | | | |
| UTILITY | FACILITY NAME | UNIT NO. | LOCATION | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | FUEL TYPE PRI | FUEL TYPE ALT | COM'L IN-SERVICE MO. / YEAR | STATUS |
| GULF POWER COMPANY | | | | | | | | | | | | | | | | |
| | INTERNATIONAL PAPER COMPANY | 1 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 37.4 | 37.4 | 37.4 | 37.4 | ST | WDS | NG | 5 / 1983 | NC |
| | INTERNATIONAL PAPER COMPANY | 2 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 40.8 | 40.8 | 40.8 | 40.8 | ST | WDS | NG | 5 / 1983 | NC |
| | MONTENAY BAY LLC | 1 | BAY | 0.0 | 0.0 | 11.0 | 11.0 | 12.5 | 12.5 | 12.5 | 12.5 | ST | MSW | --- | 2 / 1987 | NC |
| | PENSACOLA CHRISTIAN COLLEGE | 1 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | ST | NG | --- | 4 / 1988 | NC |
| | PENSACOLA CHRISTIAN COLLEGE | 2 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | ST | NG | --- | 4 / 1988 | NC |
| | PENSACOLA CHRISTIAN COLLEGE | 3 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | ST | NG | --- | 4 / 1988 | NC |
| | SANTA ROSA ENERGY | 1A | SANTA ROSA | 0.0 | 0.0 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 | 165.5 | CT | NG | --- | 6 / 2003 | NC |
| | SANTA ROSA ENERGY | 1S | SANTA ROSA | 0.0 | 0.0 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | CA | NG | --- | 6 / 2003 | NC |
| | SOLUTIA | 1 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 5 | 5 | 5 | ST | NG | DFO | 1 / 1954 | NC |
| | SOLUTIA | 2 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 5 | 5 | 5 | ST | NG | DFO | 1 / 1954 | NC |
| | SOLUTIA | 3 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 6 | 6 | 6 | 6 | ST | NG | DFO | 1 / 1954 | NC |
| | SOLUTIA | 4 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 86 | 86 | 86 | 86 | ST | NG | --- | 8 / 1993 | NC |
| | STONE CONTAINER | 1 | BAY | 0.0 | 0.0 | 0.0 | 0.0 | 4 | 4 | 4 | 4 | ST | WDS | NG | 1 / 1960 | NC |
| | STONE CONTAINER | 2 | BAY | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 5 | 5 | 5 | ST | WDS | NG | 1 / 1960 | NC |
| | STONE CONTAINER | 3 | BAY | 0.0 | 0.0 | 0.0 | 0.0 | 10 | 10 | 10 | 10 | ST | WDS | NG | 1 / 1960 | NC |
| | STONE CONTAINER | 4 | BAY | 0.0 | 0.0 | 0.0 | 0.0 | 20 | 20 | 20 | 20 | ST | WDS | NG | 1 / 1960 | NC |
| | | | GPC TOTAL: | 0.0 | 0.0 | 251.0 | 251.0 | | | | | | | | | |
| | | | FRCC REGION TOTAL: | 1,992.3 | 2,064.3 | 143.3 | 143.3 | (UNCOMMITTED TOTAL EXCLUDES MERCHANT FACILITIES) | | | | | | | | |
| | | | STATE TOTAL: | 1,992.3 | 2,064.3 | 394.3 | 394.3 | | | | | | | | | |

2006
LOAD AND RESOURCE PLAN
STATE OF FLORIDA

FRCC Form 3.1
PLANNED AND PROSPECTIVE NON-UTILITY, QF, AND SELF SERVICE GENERATION FACILITIES
INSTALLATIONS, CHANGES, AND REMOVALS
JANUARY 1, 2006 THROUGH DECEMBER 31, 2015

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | | | | | | | | | |
| | | | | FIRM | | UNCOMMITTED | | GROSS CAPABILITY | | NET CAPABILITY | | | | | COMMERCIAL IN-SERVICE/ RETIREMENT/ OR CHANGE IN CONTRACT | |
| UTIL | FACILITY NAME | UNIT NO. | LOCATION | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | FUEL TYPE PRI | FUEL TYPE ALT | MO. / YEAR | STATUS |
| | **2006** | | | | | | | | | | | | | | | |
| AEC | SPRINGHILL REGIONAL LANDFILL | 1 | JACKSON | 5.0 | 5.0 | --- | --- | 5.0 | 5.0 | 5.0 | 5.0 | IC | LFG | --- | 6 / 2006 | C |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 4 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 5 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 6 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 7 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 8 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 9 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 10 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| GPC | PENSACOLA CHRISTIAN COLLEGE | 11 | ESCAMBIA | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | IC | NG | --- | 6 / 2006 | NC |
| | **2007** | | | | | | | | | | | | | | | |
| | **2008** | | | | | | | | | | | | | | | |
| | **2009** | | | | | | | | | | | | | | | |
| | **2010** | | | | | | | | | | | | | | | |
| | **2011** | | | | | | | | | | | | | | | |
| | **2012** | | | | | | | | | | | | | | | |
| | **2013** | | | | | | | | | | | | | | | |
| | **2014** | | | | | | | | | | | | | | | |
| | **2015** | | | | | | | | | | | | | | | |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## NON-UTILITY GENERATING FACILITIES SUMMARY

| | SUMMER | | |
|---|---|---|---|
| YEAR | FIRM NET TO GRID (MW) | UNCOMMITTED QF GENERATION (MW) | UNCOMMITTED NUG GENERATION (MW) |
| 2006 | 1,989.7 | 394.3 | 0.0 |
| 2007 | 2,020.8 | 405.3 | 0.0 |
| 2008 | 2,016.8 | 420.3 | 0.0 |
| 2009 | 1,966.2 | 420.3 | 0.0 |
| 2010 | 1,889.7 | 493.9 | 0.0 |
| 2011 | 1,844.7 | 538.9 | 0.0 |
| 2012 | 1,829.2 | 556.9 | 0.0 |
| 2013 | 1,429.2 | 556.9 | 0.0 |
| 2014 | 1,242.2 | 872.7 | 0.0 |
| 2015 | 1,242.2 | 872.7 | 0.0 |

| | WINTER | | |
|---|---|---|---|
| YEAR | FIRM NET TO GRID (MW) | UNCOMMITTED QF GENERATION (MW) | UNCOMMITTED NUG GENERATION (MW) |
| 2006/07 | 2,058.3 | 405.3 | 0.0 |
| 2007/08 | 2,096.4 | 423.3 | 0.0 |
| 2008/09 | 2,096.4 | 423.3 | 0.0 |
| 2009/10 | 1,968.3 | 496.9 | 0.0 |
| 2010/11 | 1,923.3 | 541.9 | 0.0 |
| 2011/12 | 1,907.8 | 559.9 | 0.0 |
| 2012/13 | 1,551.8 | 559.9 | 0.0 |
| 2013/14 | 1,267.6 | 862.9 | 0.0 |
| 2014/15 | 1,254.8 | 875.7 | 0.0 |
| 2015/16 | 1,231.8 | 973.7 | 0.0 |

**2006**

**LOAD AND RESOURCE PLAN**

**STATE OF FLORIDA**

***FRCC Form 12***

**SUMMARY OF FIRM CAPACITY AND ENERGY CONTRACTS**

**AS OF JANUARY 1, 2006**

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|
| PURCHASING ENTITY | SELLING ENTITY | CONTRACT TERM | | NET CAPABILITY | | DESCRIPTION |
| | | FROM (MM/DD/YY) | TO (MM/DD/YY) | SUMMER (MW) | WINTER (MW) | |
| FPL | GPC | 07/20/88 | 05/31/10 | 126 | 126 | GPC allocation of Southern Unit Power Sale |
| FPL | GPC | 06/01/10 | 05/31/15 | 111 | 111 | GPC Scherer 3 allocation of Southern Unit Power Sale |
| GPC | MKT | 06/01/09 | 05/31/14 | 450 | 450 | Request for Proposals issued. Proposals due Mar 21, 06. PPA negotiations complete Aug 1, 06. |
| JEA | GPC | 08/17/88 | 05/31/10 | 28 | 28 | GPC allocation of Southern Unit Power Sale |
| PEF | GPC | 07/19/88 | 05/31/10 | 57 | 57 | GPC allocation of Southern Unit Power Sale |
| PEF | GPC | 06/01/10 | 05/31/15 | 50 | 50 | GPC Scherer 3 allocation of Southern Unit Power Sale |

2006
LOAD AND RESOURCE PLAN
STATE OF FLORIDA

## FRCC Form 9.0
## FUEL REQUIREMENTS
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FUEL REQUIREMENTS | | UNITS | ACTUAL 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| (1) | NUCLEAR | | TRILLION BTU | 309 | 344 | 331 | 351 | 332 | 346 | 344 | 347 | 341 | 349 | 342 |
| (2) | COAL | | 1000 TON | 30,356 | 30,433 | 31,960 | 32,299 | 32,096 | 32,242 | 32,950 | 35,241 | 40,306 | 44,365 | 45,938 |
| | RESIDUAL | | | | | | | | | | | | | |
| (3) | | STEAM | 1000 BBL | 42,942 | 32,085 | 32,121 | 27,931 | 16,540 | 10,128 | 10,574 | 9,187 | 7,927 | 7,475 | 6,811 |
| (4) | | CC | 1000 BBL | 110 | 54 | 49 | 132 | 143 | 114 | 132 | 133 | 114 | 162 | 197 |
| (5) | | CT | 1000 BBL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (6) | | TOTAL: | 1000 BBL | 43,052 | 32,139 | 32,170 | 28,063 | 16,683 | 10,242 | 10,706 | 9,320 | 8,041 | 7,637 | 7,008 |
| | DISTILLATE | | | | | | | | | | | | | |
| (7) | | STEAM | 1000 BBL | 217 | 141 | 151 | 156 | 149 | 162 | 165 | 182 | 193 | 204 | 216 |
| (8) | | CC | 1000 BBL | 302 | 140 | 119 | 146 | 105 | 105 | 114 | 118 | 120 | 122 | 109 |
| (9) | | CT | 1000 BBL | 1,743 | 1,707 | 1,738 | 1,704 | 1,715 | 1,836 | 1,872 | 1,765 | 1,786 | 1,749 | 1,845 |
| (10) | | TOTAL: | 1000 BBL | 2,262 | 1,988 | 2,008 | 2,006 | 1,969 | 2,103 | 2,151 | 2,065 | 2,099 | 2,075 | 2,170 |
| | NATURAL GAS | | | | | | | | | | | | | |
| (11) | | STEAM | 1000 MCF | 54,837 | 35,964 | 33,528 | 31,000 | 69,323 | 92,532 | 84,694 | 72,803 | 79,321 | 66,965 | 64,987 |
| (12) | | CC | 1000 MCF | 488,219 | 476,838 | 617,700 | 688,231 | 790,671 | 863,270 | 920,680 | 928,258 | 883,901 | 860,416 | 892,067 |
| (13) | | CT | 1000 MCF | 33,078 | 43,346 | 46,254 | 47,544 | 50,330 | 58,191 | 70,364 | 70,132 | 66,888 | 65,705 | 75,863 |
| (14) | | TOTAL: | 1000 MCF | 576,134 | 556,148 | 697,482 | 766,775 | 910,324 | 1,013,993 | 1,075,738 | 1,071,193 | 1,030,110 | 993,086 | 1,032,917 |
| (15) | OTHER | | TRILLION BTU | 1,823 | 2,268 | 3,240 | 3,280 | 3,168 | 3,342 | 3,435 | 3,317 | 4,624 | 4,512 | 4,502 |

2006
LOAD AND RESOURCE PLAN
STATE OF FLORIDA

## FRCC Form 9.1
## ENERGY SOURCES (GWH)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENERGY SOURCES | | UNITS | ACTUAL 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| (1) | FIRM INTER-REGION INTERCHANGE | | GWH | 14,056 | 12,664 | 12,384 | 12,595 | 12,530 | 10,436 | 7,736 | 8,845 | 8,036 | 6,850 | 6,483 |
| (2) | NUCLEAR | | GWH | 28,632 | 31,807 | 30,715 | 32,645 | 30,655 | 32,055 | 31,975 | 32,245 | 31,581 | 32,468 | 31,642 |
| (3) | COAL | | GWH | 69,683 | 71,204 | 72,840 | 73,100 | 72,609 | 72,424 | 73,838 | 81,403 | 95,131 | 106,430 | 110,410 |
| | RESIDUAL | | | | | | | | | | | | | |
| (4) | | STEAM | GWH | 27,135 | 20,485 | 20,516 | 17,781 | 10,552 | 6,445 | 6,778 | 5,863 | 5,024 | 4,748 | 4,317 |
| (5) | | CC | GWH | 71 | 36 | 32 | 87 | 92 | 73 | 86 | 94 | 80 | 111 | 131 |
| (6) | | CT | GWH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (7) | | TOTAL: | GWH | 27,206 | 20,521 | 20,548 | 17,868 | 10,644 | 6,518 | 6,864 | 5,957 | 5,104 | 4,859 | 4,448 |
| | DISTILLATE | | | | | | | | | | | | | |
| (8) | | STEAM | GWH | 26 | 25 | 26 | 25 | 24 | 26 | 26 | 36 | 40 | 51 | 53 |
| (9) | | CC | GWH | 178 | 73 | 60 | 84 | 51 | 52 | 52 | 51 | 52 | 52 | 49 |
| (10) | | CT | GWH | 686 | 665 | 639 | 666 | 762 | 788 | 776 | 669 | 711 | 634 | 636 |
| (11) | | TOTAL: | GWH | 890 | 763 | 725 | 775 | 837 | 866 | 854 | 756 | 803 | 737 | 738 |
| | NATURAL GAS | | | | | | | | | | | | | |
| (12) | | STEAM | GWH | 5,212 | 3,440 | 3,196 | 2,946 | 6,757 | 9,103 | 8,337 | 7,187 | 7,806 | 6,600 | 6,375 |
| (13) | | CC | GWH | 70,054 | 81,050 | 86,436 | 96,123 | 111,295 | 121,553 | 129,701 | 129,486 | 122,081 | 120,378 | 124,611 |
| (14) | | CT | GWH | 2,766 | 3,359 | 3,294 | 3,564 | 4,314 | 4,637 | 5,393 | 5,439 | 5,352 | 5,524 | 6,352 |
| (15) | | TOTAL: | GWH | 78,032 | 87,849 | 92,926 | 102,633 | 122,366 | 135,293 | 143,431 | 142,112 | 135,239 | 132,502 | 137,338 |
| (16) | NUG | | GWH | 7,564 | 7,462 | 7,457 | 7,395 | 7,521 | 8,102 | 8,492 | 8,252 | 6,165 | 5,176 | 5,506 |
| (17) | HYDRO | | GWH | 33 | 19 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| (18) | OTHER | | GWH | 14,071 | 14,087 | 16,455 | 16,749 | 14,825 | 13,282 | 12,501 | 13,192 | 17,670 | 17,810 | 17,515 |
| (19) | NET ENERGY FOR LOAD | | GWH | 240,167 | 246,376 | 254,073 | 263,783 | 272,010 | 278,999 | 285,714 | 292,785 | 299,752 | 306,855 | 314,103 |

2006
LOAD AND RESOURCE PLAN
STATE OF FLORIDA

## FRCC Form 9.2
## ENERGY SOURCES (%)
## AS OF JANUARY 1, 2006

| (1) | (2) | (3) | (4) | (5) ACTUAL | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENERGY SOURCES | | UNITS | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| (1) | FIRM INTER-REGION INTERCHANGE | | % | 5.85% | 5.14% | 4.87% | 4.77% | 4.61% | 3.74% | 2.71% | 3.02% | 2.68% | 2.23% | 2.06% |
| (2) | NUCLEAR | | % | 11.92% | 12.91% | 12.09% | 12.38% | 11.27% | 11.49% | 11.19% | 11.01% | 10.54% | 10.58% | 10.07% |
| (3) | COAL | | % | 29.01% | 28.90% | 28.67% | 27.71% | 26.69% | 25.96% | 25.84% | 27.80% | 31.74% | 34.68% | 35.15% |
| | RESIDUAL | | | | | | | | | | | | | |
| (4) | | STEAM | % | 11.30% | 8.31% | 8.07% | 6.74% | 3.88% | 2.31% | 2.37% | 2.00% | 1.68% | 1.55% | 1.37% |
| (5) | | CC | % | 0.03% | 0.01% | 0.01% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.04% | 0.04% |
| (6) | | CT | % | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| (7) | | TOTAL: | % | 11.33% | 8.33% | 8.09% | 6.77% | 3.91% | 2.34% | 2.40% | 2.03% | 1.70% | 1.58% | 1.42% |
| | DISTILLATE | | | | | | | | | | | | | |
| (8) | | STEAM | % | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.02% | 0.02% |
| (9) | | CC | % | 0.07% | 0.03% | 0.02% | 0.03% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% |
| (10) | | CT | % | 0.29% | 0.27% | 0.25% | 0.25% | 0.28% | 0.28% | 0.27% | 0.23% | 0.24% | 0.21% | 0.20% |
| (11) | | TOTAL: | % | 0.37% | 0.31% | 0.29% | 0.29% | 0.31% | 0.31% | 0.30% | 0.26% | 0.27% | 0.24% | 0.23% |
| | NATURAL GAS | | | | | | | | | | | | | |
| (12) | | STEAM | % | 2.17% | 1.40% | 1.26% | 1.12% | 2.48% | 3.26% | 2.92% | 2.45% | 2.60% | 2.15% | 2.03% |
| (13) | | CC | % | 29.17% | 32.90% | 34.02% | 36.44% | 40.92% | 43.57% | 45.40% | 44.23% | 40.73% | 39.23% | 39.67% |
| (14) | | CT | % | 1.15% | 1.36% | 1.30% | 1.35% | 1.59% | 1.66% | 1.89% | 1.86% | 1.79% | 1.80% | 2.02% |
| (15) | | TOTAL: | % | 32.49% | 35.66% | 36.57% | 38.91% | 44.99% | 48.49% | 50.20% | 48.54% | 45.12% | 43.18% | 43.72% |
| (16) | NUG | | % | 3.15% | 3.03% | 2.93% | 2.80% | 2.76% | 2.90% | 2.97% | 2.82% | 2.06% | 1.69% | 1.75% |
| (17) | HYDRO | | % | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% |
| (18) | OTHER | | % | 5.86% | 5.72% | 6.48% | 6.35% | 5.45% | 4.76% | 4.38% | 4.51% | 5.89% | 5.80% | 5.58% |
| (19) | NET ENERGY FOR LOAD | | % | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |

# 2006
# LOAD AND RESOURCE PLAN
# STATE OF FLORIDA

## FRCC Form 13
## SUMMARY AND SPECIFICATIONS OF PROPOSED TRANSMISSION LINES
## AS OF JANUARY 1, 2006

| (1) | (2) | | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|---|
| LINE OWNERSHIP | TERMINALS | | LINE LENGTH CKT. MILES | COMMERCIAL IN-SERVICE (MO/YR) | NOMINAL VOLTAGE (kV) | CAPACITY (MVA) | SITED UNDER* |
| No Entries | | | | | | | |

* PPSA Power Plant Siting Act
TLSA Transmission Line Siting Act

# MERCHANT GENERATION IN FLORIDA

# MERCHANT GENERATION IN FLORIDA

FRCC requested information on merchant generation facilities from the following companies to include in the 2006 Regional Load & Resource Plan:

1. Calpine
2. Cogentrix
   *(formerly PG&E National Energy Group)*
3. Competitive Power Ventures
4. Dynegy
5. Mirant Americas
6. Northern Star Generation
7. Reliant Energy
8. Southern Power Company
   *(formerly Constellation Power Source)*

The following companies responded to FRCC's request for information. Prior data from non-respondent(s) was replicated for the 2006 Plan:

1. Calpine
2. Competitive Power Ventures
3. Dynegy
4. Mirant Americas
5. Northern Star Generation
6. Reliant Energy
7. Southern Power Company

# CODES USED IN FORMS FOR MERCHANT GENERATING FACILITIES

| Unit Status | Contract Status | Ownership |
|---|---|---|
| **NS** – Merchant plant –No system impact study, not under construction | **C** – Contract in place | **COG** – Cogenerator |
| **SI** – Merchant plant – System impact study completed, not under construction | **CC** – Contract Change | **IPP** – Independent Power Producer |
| **U** – Under construction, less than or equal to 50% complete | **NC** – No Contract | **MER** – Merchant Generator |
| **V** – Under construction, more than 50% complete | **R** – Retirement | **SPP** – Small Power Producer |
| **TS** – Construction complete, but not yet in commercial operation | | |
| **M** – Generating unit put in deactivated shutdown status | | |
| **RA** – Previously deactivated or retired generator planned for reactivation | | |
| **OP** – In commercial operation | | |
| **D** – Generating unit capability decreased (rerated or relicensed) | | |
| **A** – Generating unit capability increased (rerated or relicensed) | | |
| **FC** – Existing generator planned for conversion to another fuel or energy source | | |
| **RP** – Proposed for repowering or life extension | | |
| **CO** – Change of ownership (including change of shares of jointly-owned units) | | |
| **OT** – Other | | |

## EXISTING MERCHANT GENERATION FACILITIES IN FLORIDA
### As of December 31, 2005

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | | | | | | |
| | | | FIRM | | UNCOMMITTED | | | | | | | FUEL TYPE | | COMMERCIAL | | | | | |
| FACILITY NAME | UNIT NO. | LOCATION (COUNTY) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | PRI | ALT | IN-SERVICE MO. / YEAR | RETIREMENT MO. / YEAR | OWNERSHIP | UNIT STATUS | CONTRACT STATUS | |
| **CALPINE** | | | | | | | | | | | | | | | | | | | |
| AUBURNDALE POWER PARTNERS | CT | POLK | 131.2 | 131.2 | 23.5 | 14.7 | 121.5 | (1) | 105.1 | 110.9 | CT | NG | DFO | 4 / 1994 | | MER | OP | C | (2) |
| AUBURNDALE POWER PARTNERS | ST | POLK | (3) | (3) | (3) | (3) | 52.0 | (1) | 49.6 | 35.0 | CA | WH | | 4 / 1994 | | MER | OP | C | (2) |
| AUBURNDALE PEAKER ENERGY CTR | CT | POLK | | | 118.0 | 130.0 | 130.1 | (1) | 118.0 | 130.0 | GT | NG | DFO | 6 / 2002 | | MER | OP | C | |
| OSPREY ENERGY CENTER | CT1 | POLK | | | | | 226.0 | (1) | 169.8 | 196.9 | CT | NG | | 5 / 2004 | | MER | OP | C | |
| OSPREY ENERGY CENTER | CT2 | POLK | | | | | 226.0 | (1) | 169.8 | 196.9 | CT | NG | | 5 / 2004 | | MER | OP | C | |
| OSPREY ENERGY CENTER | ST | POLK | | | | | 306.0 | (1) | 258.3 | 208.7 | CA | WH | | 5 / 2004 | | MER | OP | C | |
| SANTA ROSA ENERGY CENTER | CT | SANTA ROSA | | | | | 200.0 | (1) | 161.4 | 173.4 | CT | NG | | 6 / 2003 | | MER | OP | | |
| SANTA ROSA ENERGY CENTER | ST | SANTA ROSA | | | | | 74.5 | (1) | 74.5 | 74.5 | ST | WH | | 6 / 2003 | | MER | OP | | |
| **SOUTHERN POWER COMPANY (formerly Constellation)** | | | | | | | | | | | | | | | | | | | |
| OLEANDER POWER PLANT | 1 | BREVARD | 155 | 182 | | | 156 | 183 | 155 | 182 | GT | NG | DFO | 6 / 2002 | | MER | OP | C | |
| OLEANDER POWER PLANT | 2 | BREVARD | 155 | 182 | | | 156 | 183 | 155 | 182 | GT | NG | DFO | 6 / 2002 | | MER | OP | C | |
| OLEANDER POWER PLANT | 3 | BREVARD | 155 | 182 | | | 156 | 183 | 155 | 182 | GT | NG | DFO | 7 / 2002 | | MER | OP | C | |
| OLEANDER POWER PLANT | 4 | BREVARD | 155 | 182 | | | 156 | 183 | 155 | 182 | GT | NG | DFO | 8 / 2002 | | MER | OP | C | |
| **NORTHERN STAR GENERATION** | | | | | | | | | | | | | | | | | | | |
| VANDOLAH POWER COMPANY LLC | 1 | HARDEE | 630 | 630 | | | 650 | 670 | 640 | 655 | CT | NG | DFO | 6 / 2002 | 6 / 2042 | MER | OP | C | |
| **MIRANT AMERICAS** | | | | | | | | | | | | | | | | | | | |
| SHADY HILLS POWER CO, LLC | 1 GT | PASCO | 158 | 173 | | | | | 158 | 173 | CT | NG | DFO | 2 / 2002 | | MER | OP | C | |
| SHADY HILLS POWER CO, LLC | 2 GT | PASCO | 158 | 173 | | | | | 158 | 173 | CT | NG | DFO | 2 / 2002 | | MER | OP | C | |
| SHADY HILLS POWER CO, LLC | 3 GT | PASCO | 158 | 173 | | | | | 158 | 173 | CT | NG | DFO | 2 / 2002 | | MER | OP | C | |
| **COGENTRIX (formerly PG&E National Energy Group)** | | | | | | | | | | | | | | | | | | | |
| INDIANTOWN GENERATING PLANT | 1 | MARTIN | 330 | 330 | | | 360 | 360 | 330 | 330 | ST | BIT | | 12 / 1995 | | MER | OP | C | |
| **RELIANT ENERGY** | | | | | | | | | | | | | | | | | | | |
| RELIANT ENERGY - INDIAN RIVER | 1-3 | BREVARD | 576 | 576 | | | | | 576 | 576 | ST | NG | RFO | 2 / 1960 | | MER | OP | C | |
| RELIANT ENERGY - OSCEOLA | 1-3 | OSCEOLA | 318 | 340 | 159 | 170 | | | 477 | 510 | GT | NG | DFO | 12 / 2001 | | MER | OP | C | |
| | | TOTALS: | 3,079.2 | 3,254.2 | 300.5 | 314.7 | | | 4,223.5 | 4,444.3 | | | | | | | | | |

Notes:
(1) Generator nameplate rating
(2) Both of the Auburndale Power Partners units together are part of the same contract.
(3) Both of the Auburndale Power Partners units together produce the electricity for these contracts.

## PLANNED AND PROSPECTIVE MERCHANT GENERATION FACILITIES
## IN FLORIDA
### January 1, 2006 Through December 31, 2015
### ORDERED BY ENTITY

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | COMMERCIAL IN-SERVICE | | | | |
| | | | FIRM | | UNCOMMITTED | | | | | | | FUEL TYPE | | | | | | |
| FACILITY NAME | UNIT NO. | LOCATION (COUNTY) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | PRI | ALT | DATE MO. / YEAR | RETIREMENT MO. / YEAR | OWNERSHIP | UNIT STATUS | CONTRACT STATUS |
| **CALPINE** | | | | | | | | | | | | | | | | | | |
| No Activity Reported | | | | | | | | | | | | | | | | | | |
| **SOUTHERN POWER COMPANY (formerly Constellation)** | | | | | | | | | | | | | | | | | | |
| No Activity Reported | | | | | | | | | | | | | | | | | | |
| **NORTHERN STAR GENERATION** | | | | | | | | | | | | | | | | | | |
| No Activity Reported | | | | | | | | | | | | | | | | | | |
| **MIRANT AMERICAS** | | | | | | | | | | | | | | | | | | |
| No Activity Reported | | | | | | | | | | | | | | | | | | |
| **COGENTRIX (formerly PG&E National Energy Group)** | | | | | | | | | | | | | | | | | | |
| No Activity Reported | | | | | | | | | | | | | | | | | | |
| **RELIANT ENERGY** | | | | | | | | | | | | | | | | | | |
| No Activity Reported | | | | | | | | | | | | | | | | | | |

## PLANNED AND PROSPECTIVE MERCHANT GENERATION FACILITIES
## IN FLORIDA
### January 1, 2006 Through December 31, 2015
### ORDERED BY IN-SERVICE DATE

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | POTENTIAL EXPORT TO GRID AT TIME OF PEAK | | | | GROSS CAPABILITY | | NET CAPABILITY | | | | | COMMERCIAL IN-SERVICE | | | | |
| | | | | FIRM | | UNCOMMITTED | | | | | | | FUEL TYPE | | | | | | |
| ENTITY | FACILITY NAME | UNIT NO. | LOCATION (COUNTY) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | SUM (MW) | WIN (MW) | UNIT TYPE | PRI | ALT | DATE MO. / YEAR | RETIREMENT MO. / YEAR | OWNERSHIP | UNIT STATUS | CONTRACT STATUS |
| **2006** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2007** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2008** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2009** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2010** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2011** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2012** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2013** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2014** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| **2015** | | | | | | | | | | | | | | | | | | | |
| | No Activity Reported | | | | | | | | | | | | | | | | | | |
| | | **2006 - 2015 TOTALS:** | | **0.0** | **0.0** | **0.0** | **0.0** | | | **0.0** | **0.0** | | | | | | | | |

## SUMMARY OF MERCHANT FIRM CAPACITY AND ENERGY CONTRACTS

### As of January 1, 2006

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|
| PURCHASING ENTITY | SELLING ENTITY | CONTRACT TERM FROM (MM/DD/YY) | CONTRACT TERM TO (MM/DD/YY) | NET CAPABILITY (MW) SUMMER | NET CAPABILITY (MW) WINTER | DESCRIPTION |
| FMPA | CAL | 1/1/2006 | 12/31/2006 | 75 | 75 | Firm capacity and energy. FMPA has rights to partial dispatch of energy. |
| FMPA | CAL | 1/1/2007 | 12/31/2009 | 100 | 100 | Firm capacity and energy. FMPA has rights to partial dispatch of energy. |
| FPL | SOU | 6/1/2002 | 5/31/2007 | 155 | 182 | Unit 1 (Oleander Power) |
| FPL | RES | 1/1/2006 | 12/31/2009 | 576 | 576 | Schedule D (Indian River) |
| PEF | MIR | 4/1/2007 | 4/30/2014 | 474 | 520 | Toll to Florida Progress for 100% of output (Capability based on contract ambient conditions) |
| RES | NSG | 6/1/2002 | 5/31/2012 | 630 | 630 | Tolling agreeement pursuant to which VANDOLAH supplies all of its capacity and energy to RES for 10 years. |
| SEC | CAL | 10/7/2005 | 5/31/2012 | 340 | 360 | Firm capacity and energy. SEC has rights to partial dispatch of energy. |
| SEC | SOU | 12/1/2002 | 12/31/2009 | 155 | 182 | Unit 2 (Oleander Power) |
| SEC | SOU | 12/1/2002 | 12/31/2009 | 155 | 182 | Unit 3 (Oleander Power) |
| SEC | SOU | 5/1/2003 | 12/31/2009 | 155 | 182 | Unit 4 (Oleander Power) |
| SEC | RES | 12/1/2001 | 12/31/2006 | 318 | 340 | CT Capacity Purchase (Osceola) |

## SUMMARY OF MERCHANT FIRM CAPACITY AND ENERGY CONTRACTS

**As of January 1, 2006**

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---|---|---|---|---|---|---|
| PURCHASING ENTITY | SELLING ENTITY | CONTRACT TERM FROM (MM/DD/YY) | CONTRACT TERM TO (MM/DD/YY) | NET CAPABILITY (MW) SUMMER | NET CAPABILITY (MW) WINTER | DESCRIPTION |
| TECO | CAL | 5/1/2006 | 12/31/2006 | 42 | 42 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2007 | 12/31/2007 | 17 | 17 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2008 | 12/31/2008 | 17 | 17 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2009 | 12/31/2009 | 17 | 17 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2010 | 12/31/2010 | 117 | 117 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2011 | 12/31/2011 | 117 | 117 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 5/1/2006 | 12/31/2006 | 128 | 128 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2007 | 12/31/2007 | 153 | 153 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2008 | 12/31/2008 | 153 | 153 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2009 | 12/31/2009 | 153 | 153 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2010 | 12/31/2010 | 53 | 53 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| TECO | CAL | 1/1/2011 | 12/31/2011 | 53 | 53 | Firm capacity and energy. Total capacity and energy is 170 MW, shared supply with APEC. |
| Confidential | MIR | | 3/31/2007 | | | 100% tolled to non-utility counteparty |

# 2006
# LOAD AND RESOURCE PLAN
# FLORIDA RELIABILITY COORDINATING COUNCIL
## SUMMARY OF MERCHANT GENERATING FACILITIES
## IN THE
## FRCC REGION

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---|---|---|---|---|---|---|---|
| | SUMMER | | | | WINTER | | |
| YEAR | FIRM NET TO GRID (MW) | UNCOMMITTED (MW) | NET CAPABILITY (MW) | YEAR | FIRM NET TO GRID (MW) | UNCOMMITTED (MW) | NET CAPABILITY (MW) |
| 2006 | 3,079.2 | 300.5 | 4,223.5 | 2006/07 | 3,254.2 | 314.7 | 4,444.3 |
| 2007 | 3,079.2 | 300.5 | 4,223.5 | 2007/08 | 3,254.2 | 314.7 | 4,444.3 |
| 2008 | 3,079.2 | 300.5 | 4,223.5 | 2008/09 | 3,254.2 | 314.7 | 4,444.3 |
| 2009 | 3,079.2 | 300.5 | 4,223.5 | 2009/10 | 3,254.2 | 314.7 | 4,444.3 |
| 2010 | 3,079.2 | 300.5 | 4,223.5 | 2010/11 | 3,254.2 | 314.7 | 4,444.3 |
| 2011 | 3,079.2 | 300.5 | 4,223.5 | 2011/12 | 3,254.2 | 314.7 | 4,444.3 |
| 2012 | 3,079.2 | 300.5 | 4,223.5 | 2012/13 | 3,254.2 | 314.7 | 4,444.3 |
| 2013 | 3,079.2 | 300.5 | 4,223.5 | 2013/14 | 3,254.2 | 314.7 | 4,444.3 |
| 2014 | 3,079.2 | 300.5 | 4,223.5 | 2014/15 | 3,254.2 | 314.7 | 4,444.3 |
| 2015 | 3,079.2 | 300.5 | 4,223.5 | 2015/16 | 3,254.2 | 314.7 | 4,444.3 |

NOTE: Only columns (4) and (8) are cumulative on a seasonal basis.
Columns (2), (3), (6), and (7) represent the seasonal capabilities available as they have been modified by contract terms.

**ATTACHMENT 6**

**2011 Base Case Overloads**

| | | Before any projects | |
|---|---|---|---|
| Limiting Facility | Contingency | Base Rating | Base Loading |

**2011 Base Case Overloads**

| | | Before any projects | |
|---|---|---|---|
| Limiting Facility | Contingency | Base Rating | Base Loading |

**ATTACHMENT 6A**

**2012 Base Case Overloads**

| | | Before any projects | |
|---|---|---|---|
| Limiting Facility | Contingency | Base Rating | Base Loading |