

060387

Exhibit B

REDACTED

DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition of Progress Energy,
Florida, Inc. for approval of a
negotiated purchase power contract
with Florida Biomass Energy
Group, LLC.

Docket No. 060387-EQ

Submitted for filing:

May 25, 2006

P E T I T I O N

Progress Energy Florida, Inc. ("PEF", or "the Company"), pursuant to Rule 25-17.0832, F.A.C., hereby petitions the Florida Public Service Commission ("the Commission") for approval of a negotiated power purchase contract for the purchase of firm capacity and energy between Florida Biomass Energy Group, LLC ("Florida Biomass") and PEF, dated April 28, 2006 ("the Contract"). A copy of the Contract has been previously filed with the Commission pursuant to Rule 25-17.0832(1)(b), F.A.C., and a redacted copy of the Contract is attached hereto as Exhibit A. In support of this petition, PEF states as follows:

1. Petitioner, PEF, is an investor-owned utility subject to the jurisdiction of the Commission under Chapter 366, Florida Statutes. PEF's general offices are located at 100 Central Avenue, St. Petersburg, Florida, 33701.
2. All notices, pleadings and other communications required to be served on petitioner should be directed to:

John T. Burnett, Esquire
Post Office Box 14042
St. Petersburg, FL 33733-4042
Telephone: (727) 820-5184
Facsimile: (727) 820-5249

For express deliveries by private courier, the address is as stated in paragraph 1.

3. Pursuant to the terms of the Contract, Florida Biomass will construct, own, and operate a biomass-based fuel fired electrical generating plant ("the Facility") located in Florida, which it will operate as a Qualifying Facility ("QF") pursuant to regulations of the Commission. The Facility is expected to have a maximum nominal generating capability of approximately 145 megawatts ("MW"), using a liquid fuel produced from biomass grown on the Facility site as its primary fuel. Florida Biomass will sell firm capacity and energy from the Facility to PEF for a term of twenty-five (25) years, to begin no later than December 1, 2009 with a committed capacity between 116.6 MW and 134 MW. The expected annual energy from the Facility is 868,204 MWh, with expected on-peak energy being 397,927 MWh, and expected off-peak energy being 470,277 MWh. Under the performance provisions of the Contract, the capacity payment rate is reduced if the twelve-month rolling capacity factor drops below [REDACTED]. If the twelve-month rolling capacity factor drops below [REDACTED] then no capacity payment is due.

4. Exhibit B to this petition summarizes a comparison of projected capacity and energy costs under the Contract against the costs of the comparative avoided unit, a nominal 528 megawatt combined cycle gas-fired plant with an estimated in-service date of December, 2009. The comparison in Exhibit B was modeled at a committed capacity of 116.6 megawatts and a capacity factor of 85%. The comparison shows that the Contract provides savings with a net present value of \$39 million over the 25-year base term of the Contract based on current fuel forecasts. Therefore, the cumulative present worth of the firm capacity and energy payments to Florida Biomass pursuant to the Contract are projected to be

less than the cumulative present worth of costs associated with the Company's Hines 5 unit.

5. The rates, terms, and conditions of the Contract can reasonably be expected to contribute toward the deferral or avoidance of additional capacity construction or other capacity-related costs by PEF at a cost to PEF's ratepayers which does not exceed full avoided costs, giving consideration to the characteristics of the capacity and energy to be delivered by Florida Biomass under the Contract. Additionally, considering the technical reliability, viability, and financial stability of Florida Biomass, the Contract contains provisions that will effectively protect the Company's customers in the event that Florida Biomass fails to deliver firm capacity and energy as specified in the Contract.

WHEREFORE, PEF respectfully requests that the Commission grant this petition and approve the Contract as set forth in Exhibit A for cost recovery purposes.

Respectfully submitted,

PROGRESS ENERGY FLORIDA, INC.

By John T. Burnett LMS

John T. Burnett

Fla. Bar No. 173304

Post Office Box 14042

St. Petersburg, FL 33733-4042

Telephone: (727) 820-5184

Facsimile: (727) 820-5249

Counsel for Progress Energy Florida, Inc.

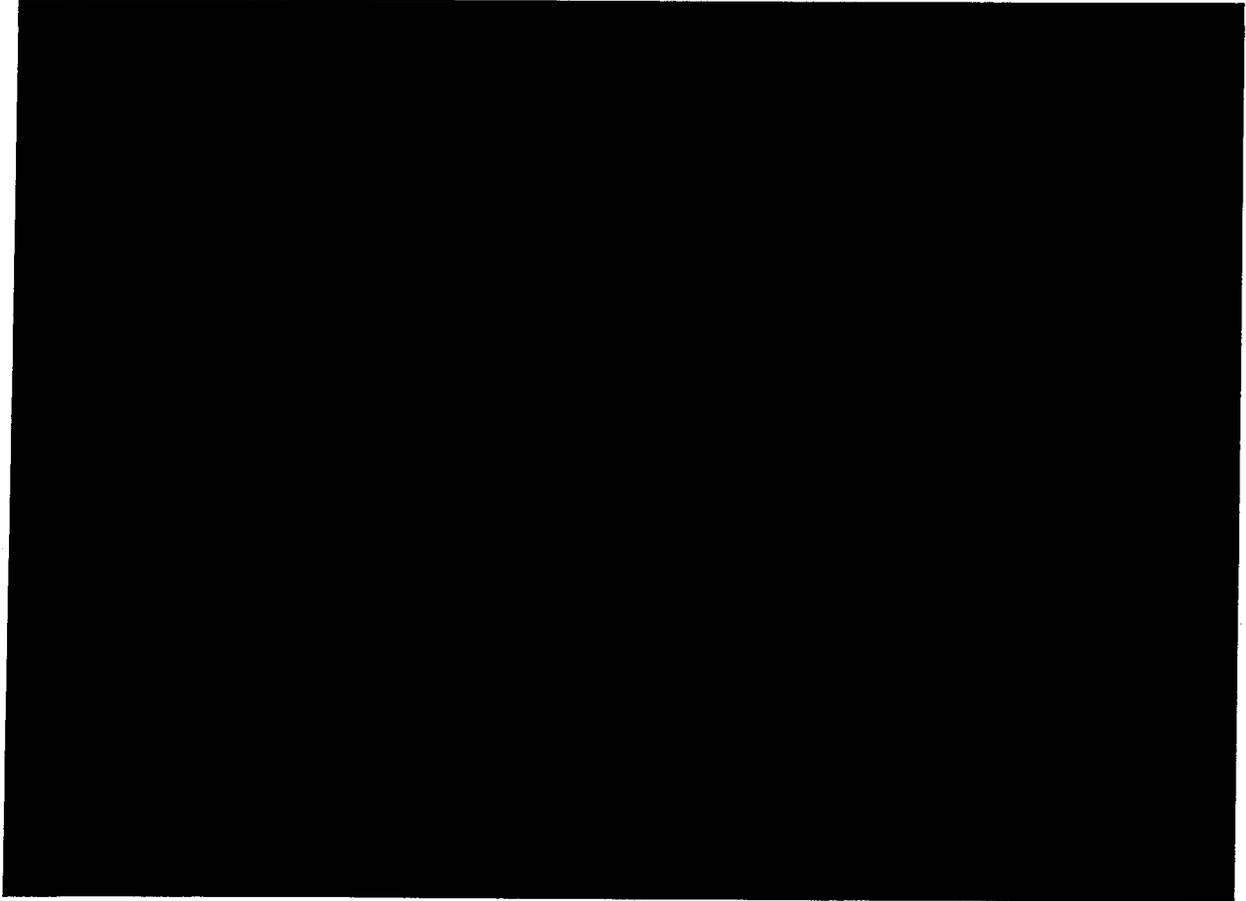
EXHIBIT A

**THE FLORIDA BIOMASS CONTRACT
(REDACTED)**

EXHIBIT B

**CALCULATION OF COST SAVINGS
FROM THE FLORIDA BIOMASS CONTRACT**

Florida Biomass Energy



**Progress Energy Florida
Standard Offer Contract
Economic Assumptions**

AFUDC RATE

8.31%

CAPITALIZATION RATIOS

Debt	48.0%
Preferred	0.0%
Equity	52.0%

DISCOUNT RATE

8.31%

RATE OF RETURN

Debt	6.17%
Preferred	0.0%
Equity	12.0%

BOOK DEPRECIATION LIFE

25 Years

INCOME TAX RATE

State	3.58%
Federal	35.0%
Effective	38.58%

TAX DEPRECIATION LIFE

20 Years

OTHER TAXES & INS.

2.00%

**Progress Energy Florida
Standard Offer Contract
Economic Escalation Assumptions**

General Inflation	Plant Construction Cost	Fixed O & M Cost	Variable O & M Cost
2.5%	2.5%	2.5%	2.5%

**Progress Energy Florida
Standard Offer Contract
Unit Information**

PLANT TYPE: Combined Cycle Unit
NET CAPACITY: 20 MW Portion of a 548 MW Combined Cycle Unit
BOOK LIFE: 25 Years

INSTALLED COST (IN-SERVICE YEAR 2008)

TOTAL INSTALLED COST (\$/KW):	506.37
DIRECT CONSTRUCTION COST (\$/KW):	391.82
AFUDC AMOUNT (\$/KW):	73.88
FIXED O & M (\$/KW-YR):	2.96
VARIABLE O & M (¢/KWH)	1.63
ASSUMED CAPACITY FACTOR	57%
 K FACTOR	 1.591