

SEMINOLE ELECTRIC COOPERATIVE, INC.

Petition to Determine Need for

Electric Power Plant

March 2006

Direct Testimony of:

Timothy S. Woodbury



0000MENT NUMBER-DATE
02092 MAR 108

FPSC-COMMISSION CLERK

1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		SEMINOLE ELECTRIC COOPERATIVE, INC.
3		DIRECT TESTIMONY OF TIMOTHY S. WOODBURY
4		DOCKET NO. 06 <u>0220</u> -E ₹
5		MARCH 10, 2006
6		
7	Q.	Please state your name and business address.
8	A.	My name is Timothy S. Woodbury. My business address is 16313 North Dale Mabry
9		Highway, Tampa Florida 33688-2000.
10		·
11	Q.	By whom are you employed and what is your position?
12	A.	I am employed by Seminole Electric Cooperative, Inc. (Seminole) as Senior Vice
13		President and Chief Strategic Officer.
14		
15	Q.	Please describe your duties and responsibilities in that position.
16	A.	My responsibilities include managerial oversight of activities related to strategic
17		planning, rate design and development, power supply planning, power marketing,
18		load forecasting, regulatory affairs, and purchased power acquisition and contract
19		administration.
20		
21	Q.	Please describe your educational background and business experience.
22	A.	I have over twenty-eight years of experience in the electric utility industry. Prior to
23		my employment at Seminole in August 1979, I was employed as an economist by

Duke Power Company working in the areas of both rates and load forecasting. I have a Bachelor of Science in Financial Management and a Master of Arts in Economics from Clemson University.

4

5 Q. Have you previously testified before this Commission?

A. Yes. I have provided written testimony and testified on behalf of Seminole before both the Florida Public Service Commission (Commission or FPSC) and the Federal Energy Regulatory Commission (FERC) in a number of different regulatory proceedings concerning a variety of issues relating to my areas of responsibility.

Most recently, I testified in FPSC Docket No. 001748 relating to the determination of need for the Osprey Energy Center.

12

13

14

15

16

17

18

19

Q. What is the purpose of your testimony?

A. In my testimony, I will describe Seminole and its Members and provide an overview of the case supporting Seminole's request for a determination of need for Seminole Generating Station Unit 3 (SGS Unit 3), a proposed 750 MW supercritical pulverized coal unit. I will also introduce Seminole's witnesses and the Need Study sponsored by these witnesses. Finally, I will address the adverse consequences that will occur if SGS Unit 3 is not granted an affirmative determination of need.

1	Q.	Are you sponsoring any exhibits in this case?
2	A.	Yes. I sponsor the following six exhibits, which are attached to my testimony:
3		Exhibit TSW-1 – Seminole's Member Distribution Cooperatives
4		Exhibit TSW-2 – Seminole's 2006 Generation Resources
5		Exhibit TSW-3 – Seminole's Power Purchase Contracts With Renewable Resources
6		Exhibit TSW-4 – Seminole's Power Purchase Contracts
7		Exhibit TSW-5 – Seminole's Interconnections
8		Exhibit TSW-6 – Seminole's Reliance Upon Natural Gas Generation
9		
10	Q.	Are you sponsoring any part of the Need Study in this proceeding?
11	A.	Yes. I sponsor Sections I, II, III and X and co-sponsor Section IX. I also sponsor
12		Appendices A and B to the Need Study.
13		
14	I.	SEMINOLE REQUESTS A DETERMINATION OF NEED FOR SGS UNIT 3.
15	Q.	Please summarize the relief Seminole requests in this proceeding.
16	A.	Seminole asks the Commission for an affirmative determination of need for SGS Unit
17		3. SGS Unit 3 is a 750 MW supercritical pulverized coal unit. It is anticipated that
18		SGS Unit 3 will go into commercial operation in May 2012 and will be fueled by a
19		combination of coal and petroleum coke. SGS Unit 3 will be constructed on an
20		existing Seminole generation site, sharing common facilities currently serving SGS
21		Units 1 and 2, two pulverized coal units located in Putnam County, Florida. The
22		projected cost of SGS Unit 3, which is developed in more detail in the testimony of

Mr. Klover and Mr. Opalinski, will be approximately \$1.4 billion. The project will

be financed by loans guaranteed by the Rural Utilities Service (RUS) in conjunction with any financing available to Seminole through the issuance of pollution control bonds. As Mr. Mahaffey addresses in detail, SGS Unit 3 is, by a wide margin, the most cost-effective option available to meet the reliability and economic needs of Seminole and its Members.

Seminole asks the Commission to find, based on the evidence submitted, that SGS Unit 3 satisfies all the legal requirements for an affirmative determination of need. Such an affirmative determination of need would then be used by Seminole in its Siting Application under the Florida Electric Power Plant Siting Act (Siting Act), which is currently pending.

Π.

SEMINOLE'S WITNESSES

14 Q. Please summarize Seminole's direct case.

A. In support of its request for an affirmative determination of need for SGS Unit 3, Seminole has filed a detailed Petition setting forth its need for SGS Unit 3 and addressing how SGS Unit 3 satisfies the statutory criteria for a determination of need. Seminole has also filed a detailed Need Study, with supporting appendices, setting forth Seminole's need for SGS Unit 3. Seminole is also filing extensive direct testimony supporting the need for SGS Unit 3 and showing that SGS Unit 3 meets the criteria to be considered in assessing a determination of need.

1 Q. Please introduce Seminole's witnesses and the areas they address in their 2 testimony. 3 Seminole is sponsoring the direct testimony and exhibits of seven witnesses. The A. 4 names and areas of responsibility for each of the other six witnesses are as follows: 5 6 Michael Opalinski, Seminole's Vice President of Technical Services, describes SGS 7 Unit 3, including its site, technology, related facilities, operating assumptions and 8 estimated total cost. He also addresses Seminole's experience in the construction and 9 operation of pulverized coal units. 10 11 Richard Klover, the Burns & McDonnell Project Manager for SGS Unit 3, provides a 12 detailed description of SGS Unit 3, the technologies incorporated in its design and its estimated design cost. Mr. Klover also presents the feasibility studies and technology 13 14 assessment prepared by Burns & McDonnell for Seminole, including its assessment 15 of other generation technologies, and addresses the experience of Burns & McDonnell. 16 17 18 Wm. Jack Reid, Seminole's Director of Fuel Supply, presents the fuel supply and 19 transportation plans for SGS Unit 3 as well as the fuel forecasts used in the analyses 20 that examined the various options for meeting Seminole's base load capacity need in 21 2012.

22

William (Bill) Lawton, Seminole's Staff Economist, presents the Member load forecast used in the identification of SGS Unit 3 as the most cost-effective alternative available to meet the reliability and economic needs of Seminole and its Members. He also addresses why there is not sufficient conservation and DSM available to avoid SGS Unit 3.

Trudy Novak, Seminole's Director of Pricing & Bulk Power Contracts, addresses Seminole's experience in conducting capacity solicitations to meet forecasted needs, the April 2004 Request for Proposals (RFP) Seminole conducted to address its 2009/2012 need for base load capacity, the bids Seminole received in response to its RFP, the technical and commercial screening of such bids in conformance with the requirements of the RFP, and other purchased power options considered by Seminole.

Lane Mahaffey, Seminole's Director of Corporate Planning, addresses Seminole's power supply planning process, the reliability and need assessment Seminole performed to identify its 2012 need for base load capacity, Seminole's economic evaluation of self-built and purchased power options, the risk assessment performed for Seminole comparing the relative risk of coal-fired and gas-fired options, why SGS Unit 3 is the best, most cost-effective option to meet the reliability and economic needs of Seminole and its Members, and the adverse consequences if SGS Unit 3 is not granted an affirmative determination of need.

1		Each of Seminole's witnesses sponsors portions of the Need Study and Need Study
2		Appendices. The portions they sponsor are addressed in each witness' testimony.
3		
4	m.	SEMINOLE AND ITS MEMBERS
5	Q.	Please describe Seminole and its Members.
6	A.	Seminole is a not-for-profit rural electric cooperative organized under Chapter 425,
7		Florida Statutes. Seminole is a generation and transmission cooperative that only
8		makes wholesale sales; it does not make retail sales.
9		
10		Seminole's ten Members are also rural electric cooperatives organized under Chapter
11		425, Florida Statutes, and each serves retail end use consumers in Florida. The
12		Members of Seminole are: Central Florida Electric Cooperative, Inc., Clay Electric
13		Cooperative, Inc., Glades Electric Cooperative, Inc., Lee County Electric
14		Cooperative, Inc., Peace River Electric Cooperative, Inc., Sumter Electric
15		Cooperative, Inc., Suwannee Valley Electric Cooperative, Inc., Talquin Electric
16		Cooperative, Inc., Tri-County Electric Cooperative, Inc., and Withlacoochee River
17		Electric Cooperative, Inc. The areas in which Seminole's Members serve are shown
18		in Exhibit TSW-1.
19		
20	Q.	Please describe the governance of Seminole.
21	A.	Seminole is owned and governed by its Members. Each of its ten Members has two
22		voting representatives and one alternate representative on Seminole's Board of

Trustees (Board). The General Manager of Seminole serves at the pleasure of the Board.

Seminole employs a comprehensive strategic planning process with Board involvement. All major strategic policy decisions, such as building new generation and entering into purchased power contracts, are made by the Seminole Board. Seminole is not involved in the management of its Member systems.

A.

Q. Please describe Seminole's purpose.

Seminole exists to provide reliable electric service at competitive rates to its Members. Seminole was organized in 1948, but remained relatively inactive until shortly after the 1973 oil embargo. In 1974, Seminole's Board determined that Seminole should develop independent power supplies for its Members. In 1975, each Member entered into a long term "All Requirements" contract with Seminole for the purchase of wholesale power (Wholesale Power Contract). These Wholesale Power Contracts require each Member to purchase from Seminole all of its power requirements for distribution within the State of Florida not otherwise supplied under pre-existing contracts. Four of Seminole's Members then had, and continue to have, pre-existing contracts with the Southeastern Power Administration (SEPA) for a combined 26 MW of capacity.

1 Q. Do the terms of the Wholesale Power Contracts affect Seminole's need for capacity?

A. Yes. The Wholesale Power Contracts establish Seminole's obligations regarding electric service to its Members. The Wholesale Power Contracts, as originally executed, had an initial term of forty-five years (i.e., until July 30, 2020), and provided that any party could terminate the agreement effective any time after the initial term with a three year written notice. In 2004, amendments to the Wholesale Power Contracts were executed between Seminole and seven of Seminole's ten Members, representing approximately 55% of Seminole's current load, extending the term of those Wholesale Power Contracts by an additional 25 years, through 2045. The amended Wholesale Power Contracts may not be terminated prior to the end of the extended term (i.e., December 31, 2045). These amended Wholesale Power Contracts have been approved by the RUS.

Q. What is the status of discussions with the remaining three Members regarding Wholesale Power Contract extensions?

A. Discussions continue between Seminole and its three remaining Members. These discussions could result in similar contract term extensions for some or all of these Members. Indeed, two of those three Members have committed to extend their respective Wholesale Power Contracts through the year 2045 in exchange for Seminole agreeing to provide an option for Members to purchase a portion of their capacity and energy requirements after the year 2020 from power suppliers other than Seminole. A Member exercising such an option would still be obligated to pay its

allocated share of the fixed costs associated with any power supply resource that would otherwise be left stranded by the Member's having executed the option. The parties are currently working on an amendment to effectuate such a result. The amendment will be subject to RUS approval.

O. Does this uncertainty regarding whether the three remaining Members will participate in Seminole after the year 2020 affect Seminole's need for SGS Unit 3 beginning in 2012?

A. No. Even in the most conservative post-2020 Member load scenario (i.e., none of the three remaining Members extending the Wholesale Power Contract), SGS Unit 3 is the most cost-effective alternative for meeting Seminole's base load requirements beginning in 2012. This result will be demonstrated by Mr. Mahaffey, who will describe how Seminole's economic studies were based on the most conservative load scenario wherein only seven Members remain under contract after 2020.

Q. Please summarize Seminole's recent and projected growth.

A. As is addressed in detail in Mr. Lawton's testimony, the Seminole system has experienced, and is forecast to continue to experience, some of the fastest growth in the State of Florida. In 2004, Seminole's Members had 805,085 member/consumers who used 15,348 GWh of energy and who placed a coincident system peak demand on the Seminole system of 3,364 MW. Seminole's highest peak demand on record occurred on February 14, 2006 at 4,113 MW (estimated). Over the past five years, the collective member/consumers of Seminole's Members have grown by 3.1% per

year and are projected to grow by 2.8% per year over the next ten years. The energy consumption for these member/consumers grew by 5.2% per year over the last five years and is projected to grow by 4.1% per year over the next ten years. The coincident winter peak demand on Seminole's system has grown by 3.8% per year over the last five years and is projected to grow by 4.1% per year over the next ten years. These historic and forecasted energy and peak demand values reflect the impact of conservation and DSM programs offered by Seminole's Members.

Q. How does Seminole meet the power supply needs of its Members and their member/consumers?

A. Seminole meets the power supply needs of its Members and their member/consumers with Seminole-owned generation in combination with purchased power contracts with independent power producers, investor-owned and municipal utilities, and renewable energy providers. Over half of Seminole's Members' capacity requirements are currently supplied through purchased power agreements, as is shown graphically on Exhibit TSW-2.

- Q. Please describe the generating units Seminole owns to meet the requirements of its Members and their member/consumers.
- 20 A. Seminole's existing owned generating resources are located at three generating sites.

 21 Seminole Generating Station Units 1 & 2 are 650 MW class pulverized coal units

 22 located in Putnam County near Palatka, Florida. SGS Unit 1 began commercial

 23 operation on February 1, 1984. SGS Unit 2 began commercial operation on

December 31, 1984. Payne Creek Generating Station is a 500 MW class gas combined cycle unit located in Hardee County, Florida. It began commercial operation on January 1, 2002. The Payne Creek Generating Station is also the site for a scheduled addition of approximately 300 MW of peaking capacity (five gas turbines scheduled for commercial operation in December 2006). Seminole also owns a 15 MW share of Progress Energy Florida's (PEF) Crystal River 3 nuclear generating unit, which is operated by PEF. More detailed information regarding Seminole's existing owned generating resources is presented in Appendix A of the Need Study.

A.

Q. Please summarize the purchased power contracts Seminole has with renewable resources.

Seminole has contracts to purchase firm capacity and energy from three renewable resource facilities: Lee County's Resource Recovery Facility, DG Telogia Power, LLC., and Bio-Energy Partners. These purchases currently total approximately 54 MW. Seminole has focused upon procurement of renewable resources that are cost-competitive and that provide a reliable source of supply of capacity and energy. A summary of these firm capacity and energy agreements with renewable resource facilities is presented in Exhibit TSW-3.

Q. What other purchased power contracts does Seminole have?

21 A. In addition to the three contracts for purchases from renewable resources, Seminole
22 has contracts for the purchase of firm capacity from PEF, Oleander Power Project,
23 Limited Partnership, Reliant Energy Florida, LLC., Calpine Construction Finance

1	Company, L.P., Hardee Power Partners Limited, and the City of Gainesville.
2	Seminole also has agreements in place to purchase excess capacity from load
3	management generation of its Members. A summary of Seminole's long-term firm
4	capacity purchases is shown on Exhibit TSW-4.

5

- Q. Please describe the transmission facilities and transmission service agreements
 Seminole employs to serve its Members and their member/consumers.
- 8 A. Seminole owns approximately 278 circuit miles of 230 kV transmission lines and
 9 fourteen 69 kV lines totaling 140 miles in length. In addition, Seminole receives firm
 10 transmission service from Florida Power & Light Company (FPL) and PEF. These
 11 transmission service agreements give Seminole the contractual right to deliver
 12 capacity and energy from Seminole's power supply resources over the FPL and PEF
 13 transmission systems for the purpose of serving Member load requirements.

14

- Please describe the interconnections that Seminole has with other operating systems within Florida.
- 17 A. Seminole has fifteen 230 kV transmission interconnections with the following
 18 utilities: FPL, PEF, Tampa Electric Company (TECO), Hardee Power Partners
 19 Limited, JEA, Lee County Electric Cooperative, and The City of Ocala. Each of
 20 those interconnection points is identified on Exhibit TSW-5.

Q Please summarize Seminole's unmet capacity need for 2012.

A. As explained in detail by Mr. Mahaffey, Seminole determined, based upon its forecasted load, reliability criteria and committed resources, that it needed over 1200 MW of additional capacity resources by 2012. Of this amount, Seminole determined that 750 MW should be base load capacity, and that such capacity should be coal generation. This additional base load capacity is necessary by 2012 not only to meet system reliability criteria, but also for Members to be able to provide adequate electricity at a reasonable cost to their member/consumers. In addition, Seminole and its Members need SGS Unit 3 to avoid an undue reliance upon gas-fired generation in 2012 and beyond.

Q. Which utilities in Florida would be primarily affected by the addition of SGS

Unit 3?

14 A. It is the collective need of Seminole's Members for which Seminole plans and which
15 justifies the need for SGS Unit 3. While there may be times when energy or capacity
16 from SGS Unit 3 is sold to other electric utilities, it is envisioned that the unit will be
17 used almost exclusively to provide energy and capacity to serve Seminole's Members'
18 needs. Consequently, the utilities primarily affected by SGS Unit 3 are Seminole and
19 its Members.

1 IV. SEMINOLE'S CONSIDERATION OF ALTERNATIVES TO SGS UNIT 3

- Q. What process did Seminole follow in assessing alternatives that could meet its
 base load capacity needs in 2012?
- A. As is addressed in detail in the testimony and exhibits of Mr. Mahaffey and Ms.

 Novak, Seminole used an extensive and vigorous process to identify and assess
 alternatives, both outside purchases and self-build options, that might be used to meet
 Seminole's need for base load capacity. Seminole's need for base load capacity
 exists after consideration of conservation and DSM captured in the load forecasts of

Seminole and its Members.

Once Seminole's need for base load capacity in 2012 was established, Seminole first assessed the best means of meeting that need with self-build alternatives. As discussed by Mr. Opalinski and Mr. Mahaffey, those analyses showed that the best self-build option was a coal unit.

As discussed in detail by Ms. Novak, Seminole then issued an RFP seeking alternatives from wholesale providers of power – independent power producers, cogenerators and other electric utilities. Seminole's use of an RFP was consistent with its well-established practice of using this approach for soliciting cost-effective and reliable capacity alternatives to self-build generation. Seminole has issued a number of such RFPs going as far back as 1988. Several of these RFPs have resulted in definitive purchased power agreements being awarded. At the present time, over

half of Seminole's resources are represented by purchased power contracts. This is shown graphically on Exhibit TSW-2.

Ultimately, after extensive efforts to identify purchased power options and further assess the relative risks of adding either coal-fired or gas-fired units to its system, Seminole concluded that the best, most cost-effective option available to Seminole to meet the needs of its Members and their member/consumers was for Seminole to build SGS Unit 3. This is addressed in detail in Mr. Mahaffey's testimony.

A.

Q. Was the process Seminole followed to identify alternative resources and ultimately to choose SGS Unit 3 a fair process?

Yes. The process was fair both to potential suppliers and to Seminole's Members. From the perspective of potential suppliers, Seminole's RFP was not overly prescriptive in its terms. Therefore, the bidders were provided the opportunity to propose creative solutions to addressing Seminole's needs. Seminole broadly published its RFP. Seminole addressed bidder inquiries. The economic analyses performed were fair, with bidders being given an opportunity to improve their bids.

Seminole's evaluation of alternatives was also fair to Seminole's Members and their member/consumers. The best evidence of the fairness to Members and their member/consumers is that the process captured the alternative which is most cost-effective. While strategic considerations, such as dependence on natural gas, were not determinative (by themselves) in reaching a decision in this case due to the

significant economic disparity between SGS Unit 3 and Seminole's other options, the
process was also fair to the Members and their member/consumers because it
accommodated consideration of such factors.

4

5 V. SGS UNIT 3 MEETS THE STATUTORY NEED CRITERIA

- Q. Mr. Woodbury, are you familiar with the criteria set forth in Section 403.519,
 Florida Statutes, that the Commission is to consider in a determination of need
- 8 proceeding?
- Yes. As a non-lawyer who has prior experience with the need determination process,
 I am familiar with the determination of need criteria.

11

12

13

- Q. Is SGS Unit 3 needed by Seminole, its Members and their members/consumers for purposes of system reliability?
- 14 A. Yes. As developed in detail in Mr. Mahaffey's testimony, there is clearly a need for 15 additional capacity on Seminole's system in 2012. Seminole's total need for 16 additional capacity by 2012 is approximately 1200 MW, 750 MW of which is best served by base load generation. Seminole's need for base load generating capacity by 17 18 2012 is driven primarily by the expiration of existing purchased power contracts and 19 load growth on Seminole's system. Absent the addition of SGS Unit 3 by the 20 summer season of 2012, Seminole will not meet its minimum reliability criteria. If 21 Seminole does not meet its minimum reliability criteria, its Members and their 22 member/consumers will not receive the level of service reliability they require. In practical terms, this means an unacceptable level of service interruptions. 23

Q. Is SGS Unit 3 needed by Seminole, its Members and their member/consumers for reasons other than reliability?

Yes. As addressed in greater detail by Mr. Mahaffey, Seminole and its Members need SGS Unit 3 in 2012 for at least two reasons other than maintaining system reliability. First, SGS Unit 3 is needed for its economic value to Seminole, its Members and their member/consumers as a base load resource. Seminole and its Members need it to be able to provide adequate electricity at a reasonable cost. SGS Unit 3 is by far the most cost-effective alternative available to meet Seminole's and its Members' base load capacity requirements. It is anticipated to save Seminole and its Members approximately \$500 million on a cumulative present worth revenue requirements (PWRR) basis compared to the next least costly alternative available to Seminole. This means that as a result of the addition of SGS Unit 3, Seminole and its Members will be able to charge lower rates than they otherwise would have to charge if any other identified alternative were selected. Second, SGS Unit 3 will help to mitigate fuel price volatility in member/consumer rates by reducing Seminole's reliance on gas-fired generation.

A.

18 Q Is SGS Unit 3 the most cost-effective alternative to meet Seminole's need for base load generation in 2012?

20 A. Yes. As I noted above, this option is, by a wide margin, the most economical alternative available to Seminole and its Members.

Is there reasonably achievable, cost-effective conservation and DSM available to 1 Q. 2 mitigate the need for SGS Unit 3?

3

4

5

6

7

8

9

10

11

12

13

15

16

A. No. This question is addressed in detail in the Need Study and by Mr. Lawton in his testimony. As the Commission has previously found, Seminole provides price signals to its Members that are properly designed to provide incentives to lower on-peak demand, and Seminole's Members offer their end use customers a variety of conservation and DSM measures (Order No. PSC-01-0421-FOF-EC). Seminole's need for additional capacity captures the impact of conservation and DSM implemented by Seminole's Members by reflecting the impact of such measures in the load forecast. Seminole is not subject to Commission conservation and DSM goal setting and plan approval. However, even if it were, there is no reasonable scenario in which sufficient conservation and DSM could be added to the Seminole system to avoid the need for SGS Unit 3. Moreover, the 750 MW represented by 14 SGS Unit 3 does not satisfy all of the incremental need by Seminole and its Members by 2012, and DSM is not well suited to avoiding the base load capacity that SGS Unit 3 would provide.

VI. ADVERSE CONSEQUENCES IF SGS UNIT 3 IS NOT APPROVED

- Q. Please address the adverse consequences Seminole, its Members and their member/consumers would face if the Commission did not grant an affirmative determination of need for SGS Unit 3.
- 5 A. There are at least three significant adverse consequences which would flow to
 6 Seminole, its Members and their member/consumers from the Commission failing to
 7 grant a determination of need for SGS Unit 3.

First, Seminole, its Members and their member/consumers would face a less reliable system if SGS Unit 3 were not added. The capacity represented by SGS Unit 3 is essential to Seminole's ability to meet its reliability criteria in 2012. As a practical matter, given the timing of the Commission's decision on a determination of need for SGS Unit 3, there is not another coal-based option available that could feasibly meet Seminole's 2012 base load capacity need. Therefore, any alternative would have to be gas-fired, and Seminole believes that any new gas-fired alternative, whether self-build or supplying power through a purchased power agreement, would be not only more costly, but also less reliable than SGS Unit 3, given the greater potential for weather-related fuel supply and transportation constraints on gas deliveries into Florida.

Second, denial of a determination of need for SGS Unit 3 would result in significant additional costs for Seminole, its Members and their member/consumers. SGS Unit 3 is by far the most cost-effective alternative available to meet Seminole's 2012 base

load capacity need, providing savings of approximately \$500 million. If SGS Unit 3 does not go into service, Seminole will be forced to find more expensive alternatives. This would have the effect of increasing the rates of both Seminole and its Members from what they would be if SGS Unit 3 been built.

Third, if SGS Unit 3 is not added to Seminole's system, then the Seminole system will face an undue reliance upon natural gas-fired generation. As shown on Exhibit TSW-6, at present 37% of the energy provided by Seminole is generated by natural gas. With the addition of SGS Unit 3 in 2012, that percentage will become 29% by 2013. If SGS Unit 3 were replaced by gas-fired alternatives, the only alternatives feasible at this point, Seminole's percentage of generation from natural gas in 2013 would rise to 52%. Seminole believes this would be an unwarranted reliance upon natural gas to meet its total system energy requirements.

Natural gas has experienced a significant and sustained rise in cost in the past few years. This cost increase has been passed on to end users, increasing the overall cost of energy. In addition to this adverse cost impact, natural gas supply, which was once seemingly assured in Florida, has become less certain, as is evidenced by the natural gas supply interruptions experienced during this last hurricane season. Because of natural gas' sustained cost increases and its less certain availability and reliability, Seminole believes that it should not construct additional gas-fired generation to meet this base load capacity need beginning in 2012. While there are no hard and fast rules governing what constitutes an optimal fuel mix, Seminole believes that additional

gas-fired generation to meet this base load need in 2012 would put the Seminole system in a position of having an undue reliance upon natural gas and thereby expose it to undue risks that would be counter to the interests of its Members and their member/consumers.

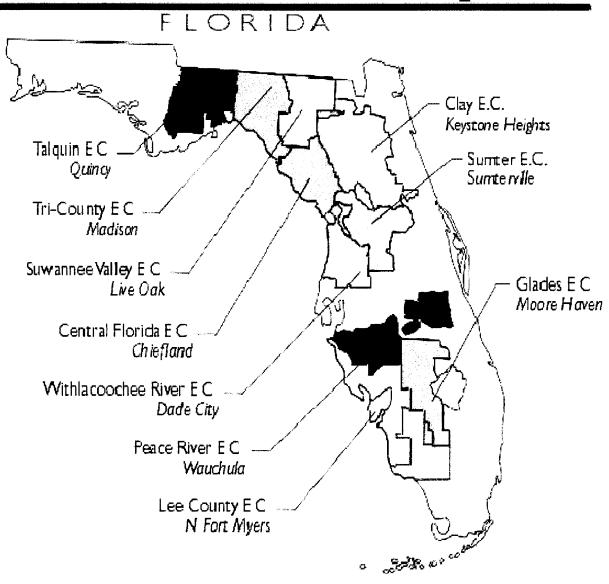
6 Q. Are there any other adverse consequences associated with a potential denial of a 7 determination of need for SGS Unit 3?

Yes. The failure to add SGS Unit 3 would have adverse consequences upon Putnam County, Florida. As Mr. Opalinski discusses, the construction of SGS Unit 3 will add some 1,500 construction positions through 2012 and approximately 50 permanent positions in Putnam County, Florida. Of course, there will be secondary and tertiary economic benefits in and around Putnam County with the addition of these positions. Also, the tax base for the County and local governments will increase by a substantial margin. All of these significant economic benefits to Putnam County would be lost if Seminole were not granted a determination of need for SGS Unit 3.

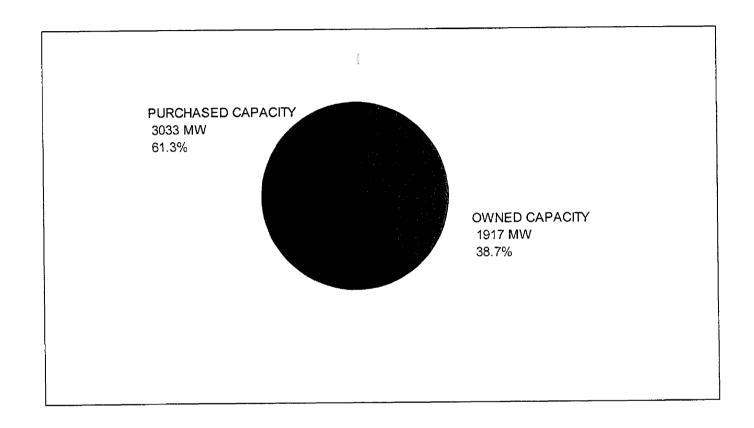
17 Q. Does this conclude your direct testimony?

18 A. Yes, it does.

Seminole's Member Distribution Cooperatives



SEMINOLE'S 2006 CAPACITY RESOURCES



SEMINOLE'S POWER PURCHASE CONTRACTS WITH RENEWABLE RESOURCES

Supplier	County	Fuel	MW Capacity	Begin Date	End Date
Bio-Energy Partners	Broward	Landfill Gas	7	01/01/05	12/31/09
DG Telogia Power, LLC	Liberty	Biomass	12	06/01/04	12/31/19
Lee County, Florida	Lee	Solid Waste	35 - 55	12/01/99	07/30/20

SEMINOLE'S POWER PURCHASE CONTRACTS

Supplier	Service	Fuel	MW Capacity	Begin Date	End Date
Progress Energy Florida	Partial Requirements	System	1,105*	02/01/84	12/31/13***
Progress Energy Florida	Intermediate	System	150	01/01/99	12/31/13
Progress Energy Florida	Intermediate	System	150	06/01/06	12/31/13
Progress Energy Florida	Intermediate	System	150	12/01/06	12/31/13
Progress Energy Florida	Full Requirements	System	150+**	01/01/10	07/30/20
Hardee Power Partners Limited ^(a)	Firm Capacity & Energy	Gas/Oil	356	01/01/93	12/31/12
Calpine Construction Finance Company, L.P. (b)	Firm Capacity & Energy	Gas/Oil	360	06/01/04	05/31/12
Oleander Power Project, Limited Partnership ^(c)	Firm Capacity & Energy	Gas/Oil	546	12/01/02	12/31/09
Oleander Power Project, Limited Partnership ^(d)	Firm Capacity & Energy	Gas/Oil	364 with option for total of 546	01/01/10	12/31/15
Reliant Energy Florida, LLC ^(e)	Firm Capacity & Energy	Gas/Oil	364	12/01/01	12/31/06
Reliant Energy Florida, LLC ^(e)	Firm Capacity and Energy	Gas/Oil	364	12/01/08	05/31/14
The City of Gainesville	Full Requirements	System	17*	10/22/73	12/31/12***

^{*} Capacity is variable over time. Amount shown represent estimated 2006 maximum monthly peak demand purchase.

** Capacity is variable over time. Amount shown represents estimated 2010 maximum monthly peak demand

^{***} End Date for this contract represents end of initial term. Contract continues unless terminated by either party with certain notice.

(a) Subsidiary of Invenergy, LLC.
(b) Subsidiary of Calpine Corporation.
(c) Subsidiary of Southern Power Company.
(d) Executed February 17, 2006

⁽e) Subsidiary of Reliant Energy, Inc.

SEMINOLE INTERCONNECTIONS

Utility Interconnection	Voltage (kV)	Location
FPL	230	Rice
FPL	230	Rice
FPL	230	SGS
FPL	230	SGS
FPL/Lee	230	Lee #2 Sub
FPL	230	Charlotte
TECO	230	Hardee Sub
Hardee Power Partners Limited	230	Hardee Sub
PEF	230	Vandolah
JEA	230	Firestone Tie Point
City of Ocala	230	Ocala #2 Tie Point
PEF	230	Martin West Tie Point
PEF	230	Silver Springs Tie Point
PEF	230	Silver Springs
PEF	230	Dearmin Tie Point

SEMINOLE'S RELIANCE UPON NATURAL GAS GENERATION

