ORIGINAL

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Complaint and petition by Lee County Electric Cooperative, Inc. for an investigation of the rate structure of Seminole Electric Cooperative, Inc.

Docket No. 981827

Filed: July 17, 2000

REBUTTAL TESTIMONY

of

WILLIAM STEVEN SEELYE

on behalf of

LEE COUNTY ELECTRIC COOPERATIVE, INC.

DOCUMENT NUMBER-DATE 08618 JUL 178 FPSC-RECORDS/REPORTING

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1		I. INTRODUCTION
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3	Q.	Please state your name and business address.
4	А.	My name is William Steven Seelye and my business address is The
5		Prime Group, LLC, 6711 Fallen Leaf, Louisville, Kentucky, 40241.
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7	Q.	Are you the same William Steven Seelye that submitted
8		Testimony on Behalf of Lee County Electric Cooperative
9		("LCEC") which was filed with the Florida Public Service
10		Commission ("Commission") on May 30, 2000?
11	А.	Yes.
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13	II.	PURPOSE AND SUMMARY OF REBUTTAL TESTIMONY
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15	Q.	What is the purpose of your testimony?
16	A.	The purpose of the my testimony is to rebut the testimony filed by
17		Seminole's witnesses David E. Christianson, Timothy S. Woodbury,
18		and Trudy S. Novak on June 26, 2000.
19		
20	Q.	Please summarize your rebuttal testimony.
21	А.	The testimony of the Seminole witnesses reinforces my opinion that
22		Seminole is using rate design to buttress its own plans to build and
23		purchase generation capacity by discouraging its members from
24		pursuing alternatives such as load management, conservation and
25		distributed generation. By using a three-year ratchet with a one-

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1		year lag, using an incomplete and one-sided view of marginal cost,
2		and sending an inaccurate and inappropriate price signal, Seminole
3		is discouraging customers from pursuing viable and more efficient
4		alternatives to purchasing capacity from Seminole.
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6 7 8 9 10	II	I. THE USE OF A RATCHET DISCOURAGES CUSTOMERS FROM PURSUING ALTERNATIVES TO PURCHASING CAPACITY FROM SEMINOLE
11	Q.	What is significant about the three-year ratchet in
12		Seminole's development of the rate design reflected in Rate
13		SECI-7 and Rate SECI-7b?
14	А.	First of all, use of a three year energy ratchet to recover a
15		significant portion of Seminole's fixed production costs runs counter
16		to the position Seminole was taking as recently as February 19,
17		1998, which was about the same time that Seminole was developing
18		Rate SECI-7. At that time, Seminole was insisting that fixed
19		production costs should be recovered through the demand charge.
20		In a presentation before LCEC's Board of Directors on February 19,
21		1998, Seminole's General Manager, Mr. Richard J. Midulla,
22		explained why it was important that a utility's fixed costs be
23		recovered through the demand charge:
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25 26 27 28 29		Now, why is demand important? As Curtis [the Chairman of LCEC's Board] alluded to, demand is the maximum amount that a supplier has to have available for your use at any point in time. Whether this is the coldest day in the winter or the hottest day

in the summer, your peak demand has to be met by your supplier, which means it has to be met even if we had a line down; it has to be met even if we have one of our units down. So you have to have reserves, and you have to have contingencies available to meet that peak demand. And in order to do that, you have to have the resources, investments made to meet those resources. Historically, Seminole has put between 85 and 95 percent of our fixed costs that are associated with our overall revenue requirement into the demand charge. Why are fixed costs associated with demand and recovered through the demand charges? Because they are those costs which are incurred to secure those resources to meet that peak demand. It is investment in plant. It is a contract for reserves that you buy from someone else. So it is the investment that you are making to meet those peaks, and those are included in the demand charges, or at least partially included. You see, I said between 85 and 95. Some utilities have 60 percent. Some have 100 percent of the fixed costs in the demand charge. It could vary. (Transcript of LCEC Board Meeting, February 19, 1998) (emphasis added).

- A copy of the slides used by Mr. Midulla to explain why fixed costs
 - should be recovered through the demand charge is attached as

28 Exhibit __ - (WSS - 6).

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- Q. Did Seminole's position as communicated by Mr. Midulla to
 the LCEC Board change?
- A. Yes. On March 13, 1998, less than a month after Mr. Midulla's comments, Seminole was arguing in a presentation before Seminole's Rate Committee that a larger portion of fixed production costs should be removed from the demand charge and recovered

through a three-year energy ratchet. (See Woodbury testimony, p. 17 and Exhibit ___(TSW-5).)

Q. How can this change in direction be explained?

A. 5 Assuming that Mr. Midulla was being forthright with the LCEC Board and that Seminole did suddenly change its position between 6 7 the time Mr. Midulla addressed the LCEC Board on February 19, 1998 and the Seminole Rate Committee meeting on March 13, 8 1998, the only possible reasonable explanation for this sudden 9 reversal in direction is that Seminole wanted to use rate design to 10 prevent its members from pursuing alternatives which might 11 hinder its own plans to install new generation facilities. Indeed, 12 recovering fixed production costs through a three-year energy 13 ratchet discourages customers from pursuing other alternatives 14 such as load management, conservation and distributed generation, 15 and has the practical effect of locking customers in to purchasing 16 from Seminole. 17

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Q. How does the use of a three-year ratchet discourage load management, conservation and distributed generation?

A. Seminole's three-year ratchet, along with the one-year lag effectively establishes a minimum power bill for its customers based on a customer's historical energy purchases during a period that extends back almost five years. Because this minimum bill is based on energy used in a prior period, the bill is "ratcheted" in

1 place and cannot be lowered by a customer reducing its energy or 2 demand requirements. Thus, by introducing the ratchet, Seminole 3 seriously dampens any incentive for its customers to use load management, conservation, and distributed resources to operate 4 more efficiently. Although all ratchets dampen efficiency 5 incentives, Seminole's ratchet is particularly troublesome because it 6 locks a customer's minimum bill to almost five years of past energy 7 purchases thus significantly reducing the impact of any changes in 8 its customers' usage patterns. With Seminole's energy ratchet, it 9 will take several years before either an increase or a decrease in 10 demand will have a full impact on the power cost to Seminole's 11 individual members. Even then, a member system that encourages 12 its customers to shift usage from the peak period to the off-peak 13 period is penalized through the application of the ratchet, which is 14 applied to off-peak as well as on-peak energy purchases. 15 Consequently, the three-year energy ratchet stymies any effort on 16 the part of Seminole's members to make better or more efficient use 17 of generation capacity. 18

19I would also point out that the ratchet structure also20encourages peak load growth since the full cost impact is not21realized by member systems for several years. The resulting peak22load growth increases Seminole's need to build more generation, a23need that could be avoided or mitigated by a more properly24designed rate.

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1	Q.	Ms. Novak claims on page 23 of her testimony that the
2		ratchet promotes revenue stability. Do you agree ?
3	А.	Yes, all ratchets generally serve to guarantee the utility a certain
4		amount of revenue for a period of time. However, revenue stability
5		is not a sufficient reason to justify the ratchet in SECI-7b.
6		Ratchets establish minimum bills based on a customer's
7		consumption from a prior period. During the time period for which
8		the ratchet is applicable, these minimum bills are unaffected by
9		efforts on the part of the customer to lower consumption. As Dr.
10		Blake points out in his prefiled direct and rebuttal testimony, the
11		Commission has historically disallowed ratchets in utility rate
12		structures because ratchets are a disincentive to conservation.
13		Seminole's ratchet is particularly problematic and unusual because:
14		(1) it is based on extremely antiquated energy usage data
15		(extending back almost five years), and (2) it is tied to the
16		customer's energy usage instead of the capacity required to meet
17		the load (which is inconsistent with Mr. Midulla's comments at
18		LCEC's Board Meeting on February 19, 1998).
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20	Q.	On page 17 of his testimony, Mr. Christianson refers to
21		LCEC's cost of service study as "looking in the rear view
22		mirror." Do you agree?
23	А.	No. LCEC's cost of service study is based on current year costs and
24		current year billing units. Therefore, LCEC's cost of service study
25		is not backward looking at all. In fact, I find Mr. Christianson's

remarks disingenuous considering that Seminole's own rate structure includes a ratchet going back five years, and thus is hardly "forward looking."

Q. Considering the three-year ratchet, how would you characterize Seminole's Rate SECI-7b?

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7 A. Seminole's Rate SECI-7b is a precarious mixture of backward looking elements with so-called forward looking incremental costs. 8 In an effort to thwart load management, conservation and other 9 alternatives to building generation facilities. Rate SECI-7b mixes a 10 backward-looking three-year year ratchet with a single component 11 of incremental (or marginal) cost, while selectively ignoring other 12 important components of marginal cost. Additionally, because 13 Seminole moved from a rate that recovered a larger percentage of 14 production capacity costs through a peak demand charge to one 15 that recovers a significant portion of capacity costs through a three-16 year energy ratchet, it penalizes its members for adding kWh sales 17 during off-peak periods when there is no additional capacity needed 18 to serve the load. 19

IV. SECI-7b DOES NOT APPROPRIATELY RECOGNIZE MARGINAL COSTS

Q. Seminole's witnesses claim that Rate SECI-7b recognizes
 marginal or incremental costs. (Woodbury testimony, p. 33;
 Novak testimony, pp. 17-18.) Do you agree?

 A. No. In designing Rate SECI-7b, Seminole chose to look at a single element of marginal cost - namely, generation capacity cost - but simply ignored other important elements of marginal cost specifically energy and transmission costs.

Q. What does the term "marginal cost" mean?

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A. Marginal cost is the change in total cost due to a change in the 7 quantity supplied. For an electric utility, marginal cost includes 8 both the cost of adding new facilities (capacity costs) and the 9 variable or energy cost (e.g., fuel cost) of generating electric energy. 10 Both the marginal capacity cost and marginal energy cost vary by 11 the time of the day and by the time of the year. For example during 12 the middle of the night, when customers are purchasing less power, 13 Seminole would have sufficient capacity to serve its customers. 14 Therefore, a change in demand during those off-peak periods would 15 not result in a change in capacity cost. In fact, at those times, 16 Seminole's marginal capacity cost would be zero. Marginal energy 17 cost also varies dramatically from hour to hour, particularly for 18 utilities like Seminole that have coal-fired base load units and also 19 rely on gas-fired peaking generation or purchase power from other 20 companies that rely on gas-fired peaking resources. Again, during 21 off-peak periods, Seminole can generate power from its base load 22 generating units which use lower priced fuel and consequently have 23 lower marginal energy costs than do gas-fired combustion turbine 24 peaking plants. 25

Q. Did Seminole take into consideration the higher marginal energy cost during peak conditions in the design of Rate SECI-7b?

А. No. In the design of SECI-7b, Seminole focused on marginal 5 capacity cost but completely ignored the fact that marginal energy 6 costs are higher during the peak than they are during off-peak peak 7 periods. Seminole claims that the demand charge included in Rate 8 SECI-7b was designed to reflect the incremental cost of its new 9 plant. According to Ms. Novak's Exhibit ____ (TSN-5), the 10 incremental capacity cost of its new combined-cycle plant (Payne 11 Creek Unit 1 and Unit 2) is \$8.49 per kW of the eight-month billing 12 demand. Seminole is therefore arguing that the demand charge 13 reflects the carrying costs of these new units. But Seminole has 14 failed to consider the higher marginal cost of generating energy at 15 the time of the peak. 16

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А.

Please explain how Seminole's marginal energy cost will vary depending on the hour of the day or the season. Seminole's load will vary significantly from hour to hour and from month to month. During daytime hours when residential

customers are using air-conditioners or heating equipment and

commercial and industrial customers are operating, Seminole's load

will increase. Seminole's load will be lower during the middle of the

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night and during the months of March, April, October and November.

3 At any given hour a utility will utilize power resources (generating units, purchased power, etc.) that have the lowest 4 5 marginal operating costs. In other words, the resources with the lowest operating costs are dispatched first. In the case of Seminole, 6 the lowest cost resources are its Seminole Plant (two nominally 7 8 rated 650 MW coal-fired generating units) and its 15 MW share of Crystal River 3 (a nuclear unit operated by Florida Power 9 Corporation). These base load resources have very low operating 10 costs. The Seminole Plant has an energy cost of approximately 1.8 11 ¢/kWh, and Crystal River 3 has an energy cost of approximately 0.5 12 ¢/kWh. With a total capacity of over 1,300 MW, these low-cost 13 resources can meet Seminole's energy requirements from 30 to 50% 14 of the time. 15

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Q. What happens when Seminole's demand exceeds the output of these low-cost base load units?

A. When Seminole's demand exceeds the output of the Seminole Plant and its share of Crystal River 3, it must rely on generating units with a higher operating cost. When Seminole's 500 MW Payne Creek Station is placed in service in the year 2002, this facility will be the next large block of capacity which can be dispatched. Last year, Seminole estimated that the energy cost of these two gas-fired combined-cycle combustion turbines would be 2.4 ¢/kWh.

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1		However, since last year natural gas prices into Florida have
2		increased by almost 50%! (Assuming that Seminole's energy cost
3		estimate included only the cost of fuel, a 50% increase in gas prices
4		would raise the energy cost of the Payne Creek Station from 2.4
5		¢/kWh to 3.60 ¢/kWh.) Seminole has estimated that Payne Creek
6		Unit 1 will operate 5,895 hours and Payne Creek Unit 2 will
7		operate for 4,301 hours.
8		The next large block of capacity that will be dispatched in the
9		year 2002 is power from Reliant Unit 1 and Unit 2 (a unit power
10		agreement for 300 MW of capacity from Reliant Energy). In July
11		1999, Seminole estimated that the cost of these gas-fired
12		combustion turbines would be approximately 3.9 ¢/kWh. Again,
13		natural gas prices into Florida have gone up almost 50% since last
14		year. (Assuming that Seminole's estimate included only the cost of
15		fuel, a 50% increase in gas prices would raise the energy cost of unit
16		power from Reliant Energy from 3.9 ¢/kWh to 5.85 ¢/kWh.)
17		Seminole has estimated that, during the year 2002, Reliant Unit 1
18		will operate for 1,119 hours and Reliant Unit 2 will operate for 883
19		hours.
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21	Q.	What will happen during extreme peak conditions?
22	A.	Seminole will have to rely on resources that have an even higher
23		operating cost, such as power purchased from the Orlando Utility
24		Commission, Jacksonville Electric Authority, or power purchased in
25		the marketplace. Last year Seminole estimated that the cost of

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1		these resources would range from 5 \diamond	/kWh to 10 ¢/kWh. Seminole
2		estimated that it would purchase ene	ergy at 10 ¢/kWh for 84 hours
3		during the year 2002. Therefore, the	estimated marginal energy
4		cost for 84 hours during the extreme	peak period is 10 ¢/kWh. It is
5		important to keep in mind, however,	that the dramatic increase in
6		natural gas prices since last year will	likely have an impact on
7		these estimates.	
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9	Q.	Based on this information, what	can you conclude about
10		Seminole's marginal energy cost?	,
11	А.	Seminole's marginal energy cost varie	es significantly from period to
12		period. In the following table, I have	estimated the marginal cost
13		during the off-peak, intermediate pea	k, peak and extreme peak
14		periods based on Seminole's 2002 res	ource mix and energy cost
15		estimates:	
16		<u>Seelye Table</u>	1
17		Off-Peak	1.8 ¢/kWh
18		Intermediate Peak	2.4 ¢/kWh
19		Peak	3.9 ¢/kWh
20		Extreme Peak	10.0 ¢/kWh
21		As can be seen from this table, Semir	ole's marginal energy cost in
22		the year 2002 will likely vary from 1.	8 ¢/kWh during the off-peak
23		period to as much as 10.0 ¢/kWh dur	ing the extreme peak – nearly
24		a 6 to 1 difference. It should be noted	l that this table ignores: (1) the
25		fact that line losses are much higher	during peak periods than they

25		didn't include the Production Fixed Energy Charge (i.e., the
24	Q.	In calculating the marginal energy charge of 2.24 ¢/kWh, you
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22		extreme peak periods experienced by Seminole.
21		understates the marginal cost of energy during the peak and
20		exceeds the marginal cost of off-peak energy, but significantly
19		Charge of the rate). This marginal energy charge of 2.24 ¢/kWh
18		¢/kWh (which includes the Fuel Charge and Non-Fuel Energy
17		period, Seminole will be charging a marginal energy rate of 2.24
16		ratchet) the cost of power during off-peak periods. During the peak
15		of the peak and overstates (through the application of the energy
14		cost, SECI-7b significantly understates the cost of power at the time
13		significantly higher during the peak. By ignoring marginal energy
12		capacity cost, but ignored the fact that its marginal energy cost is
11	A.	No. As I have stated, Seminole chose to focus only on its marginal
10		cost?
9	Q.	Does Rate SECI-7b reflect this variation in marginal energy
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7		extreme peak energy in Seelye Table 1 are conservative.
6		Therefore, the marginal cost estimates for intermediate, peak and
5		cost of intermediate, peak and extreme peak marginal energy.
4		when these energy costs were estimated, which would increase the
3		delivered into Florida have increased by almost 50% since last year
2		peak and extreme peak energy, and (2) that natural gas prices
1		are during off-peak periods , which increases the marginal cost of

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three-year energy ratchet) set forth in SECI-7b. Why is that?

Α. The Production Fixed Energy Charge is a fixed charge based on a 3 three-year ratchet that is lagged one year. Changes in a customer's 4 demand and energy do not have an immediate impact on this 5 charge. Therefore, the Production Fixed Energy Charge cannot be 6 7 considered a marginal energy charge. In addition, the Production Fixed Energy Charge has nothing whatsoever to do with marginal 8 production energy costs. Rather, the Production Fixed Energy 9 Charge is solely related to production capacity costs. 10

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Q. What problems are caused by charging energy rates that are significantly lower than marginal energy costs?

Understating marginal energy costs creates several problems. A. 14 First, by charging rates that are less than marginal energy costs at 15 the time of the peak, customers will be lead to believe that it is less 16 expensive to add load during the peak than it really is. 17 Consequently, resources will be allocated in an inefficient manner. 18 Second, by understating the cost of power at the time of the peak. 19 the value of load management is understated. The only benefit that 20 a customer receives for load management under SECI-7b is 21 \$8.50/kW, which does not correspond to the full avoided cost 22 associated with load management. As Seelye Table 1 shows, the 23 estimated marginal energy cost alone during extreme peak 24 25 conditions is 10.0 ¢/kWh. This avoided cost is not being reflected in

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1		the savings that would be seen by Seminole's members using load
2		management. Third, understating the cost of power at the time of
3		the peak coupled with the three-year ratchet, encourages customers
4		to buy power from Seminole rather than pursue other alternatives,
5		even though those other alternatives may be less costly and more
6		efficient. Fourth, understating the cost of power at the time of the
7		peak creates an environment where Seminole must build new
8		power plants to meet increases in demand even though there may
9		be less costly options available.
10		
11	Q.	Can you provide an example that illustrates how Rate SECI-
12		7b can discourage a more efficient alternative to purchasing
13		from Seminole?
14	А.	Yes. Suppose that a commercial end-user load management
15		program (including all carrying costs and operating expenses) costs
16		a Seminole member company \$9.00/kW/Mo for the eight peak
17		months on Seminole's system (a total annual cost of \$72.00 per kW).
18		Now further suppose that for each 1 kW of load management
19		installed, 1 kW of load could be shifted from the extreme peak and
20		peak periods to the off-peak periods for 1100 hours out of the year.
21		This program would result in the following production cost savings
22		on Seminole's system:
23		
24		Capacity Savings: 8 months x \$8.49/Mo = \$67.92
25		Energy Savings: 84 hours x (\$0.100 - \$0.018) = \$6.89

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 (1100 - 84 hrs) x (\$0.039 - \$0.018) = \$21.34
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 Total Savings: \$96.15

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The savings to Seminole from this program is \$96.15 per kW. The annual cost of the program is \$72.00 per kW. Therefore, this commercial load management program is an economically efficient program. However, Rate SECI-7b would not allow this program to get off the drawing board. Under Rate SECI-7b, the member system would realize savings of only \$68.00 per kW (\$8.50 x eight months). Therefore, SECI-7b has discouraged an economically efficient program.

Did the cost of service study sponsored by Mr. Christianson Q. 13 take into account the fact that Seminole has significantly 14 higher marginal energy costs during peak conditions? 15 Α. No. He ignores this fact, and he entirely avoids the issue in his 16 testimony. The Equivalent Peaker Methodology employed by Mr. 17 Christianson fails to consider the higher operating cost of the 18 peaking capacity that he is imputing. As a result, his application of 19 the Equivalent Peaker Methodology is internally inconsistent and 20 inherently flawed. Mr. Christianson claims that peaking facilities 21 can be installed to meet peak demands in lieu of base-load facilities. 22 (See Christianson testimony, p. 8.) However, he ignores the fact 23 that it costs more to operate combustion turbines than it does base 24 load generation. Because he maintains that a portion of fixed 25

production costs equivalent to the cost of gas-fired combustion turbines should be assigned to the peak, for sake of consistency, the higher operating cost of combustion-turbine generation should also be assigned to the peak.

Q, Does LCEC's proposed rate more accurately reflect Seminole's marginal cost than Rate SECI-7b?

Α. Although LCEC's proposed rate is based on traditional embedded 8 cost principles, I believe that it still better reflects marginal cost 9 than does Rate SECI-7b. Neither Rate SECI-7b nor LCEC's 10 proposed rate includes a time differentiated energy charge which 11 mirrors Seminole's marginal energy costs. However, if we follow 12 Seminole's own logic and calculate the demand charge on the basis 13 of marginal costs, then the charge should include all peak period 14 marginal costs (both capacity and energy) and not just marginal 15 capacity costs. Following Seminole's logic, the demand charge we 16 have proposed provides a much better indication of the cost of 17 power during the peak than SECI-7b. 18

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Please explain why your proposed rate more accurately reflects Seminole's marginal production costs?

 A. As I have said, a reasonable approach for determining the peak period cost of power to Seminole's members is to unitize Seminole's higher marginal energy cost on the basis of the coincident peak demand, because Seminole's higher energy costs are incurred when

1	Seminole's demand approaches its coincident peak demand.
2	Exhibit (WSS – 7) is a calculation of the excess marginal energy
3	costs during peak and extreme peak conditions above the average
4	energy cost recovered through the Fuel Charge and Non-Fuel
5	Energy Charge of the rate, unitized on the basis of the coincident
6	peak demand. The excess marginal energy cost assigned to the
7	peak is \$2.96/kW/Mo. Adding this monthly cost to the incremental
8	production capacity cost calculated by Ms. Novak of \$8.49/kW/Mo
9	(Novak testimony, p. 17) results in a peak cost of \$11.45/kW/Mo,
10	applicable to the eight peak months. The rate that we propose
11	consists of a Production Demand Charge (applied to 8 peak months)
12	of \$10.59/kW/Mo, and an energy charge (i.e., the Fuel Charge and
13	Non-Fuel Energy Charge) that is the same as SECI-7b. By
14	comparison, the peak demand charge in Rate SECI-7b is
15	\$8.50/kW/Mo. As can be seen from this analysis, the
16	\$10.59/kW/Mo proposed by LCEC is less than the marginal cost
17	calculated in this manner, but LCEC's proposed rate design is much
18	closer to marginal cost than Seminole's peak demand charge that is
19	set at \$8.50/kW/Mo.
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V. SEMINOLE DID NOT PREPARE A COST OF SERVICE STUDY PRIOR TO THE DEVELOPMENT OF SECI-7b

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Q. Does Seminole claim that a cost of service study was prepared prior to the development of SECI-7b?

1	А.	Yes. Ms. Novak states on page 26 of her testimony that SECI-7b
2		was based on a cost of service study.
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4	Q.	Do you agree that the study provided to you by Ms. Novak
5		and summarized as Exhibit (TSN-7) is a cost of service
6		study?
7	А.	The workpapers that were provided to me on July 19, 1999, and
8		summarized as Exhibit(TSN-7) of Ms. Novak's testimony, are
9		essentially the same as the workpapers included in her Exhibit
10		(TSN-8), except that the workpapers provided to me were based
11		on 1999 budgeted costs instead of 2000 budgeted costs. Ms. Novak's
12		workpapers are certainly not what I would consider a cost of service
13		study. In my opinion, a cost of service study should functionally
14		assign and classify a utility's costs on an account-by-account basis.
15		I would refer to Ms. Novak's workpapers as a "revenue requirement
16		calculation."
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18	Q.	Does this conclude your rebuttal testimony?

19 A. Yes.

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Exhibit ____ - (WSS - 6)

Slides From Mr. Midulla's

Presentation to

LCEC's Board of Directors

Exhibit _ - (WSS-6)

SEMINOLE ELECTRIC COOPERATIVE, INC. RATE PRESENTATION LEE COUNTY BOARD OF TRUSTEES

RATE BASICS

SEMINOLE RATES HAVE HISTORICALLY BEEN DESIGNED TO RECOVER 85% to 95% OF FIXED COSTS THROUGH THE DEMAND CHARGE

WHY ARE FIXED COSTS ASSOCIATED WITH DEMAND AND RECOVERED THROUGH DEMAND CHARGES?

FIXED COSTS ARE THOSE WHICH ARE INCURRED TO SECURE RESOURCES TO MEET THE PEAK DEMAND

SEMINOLE ELECTRIC COOPERATIVE, INC. RATE PRESENTATION LEE COUNTY BOARD OF TRUSTEES

FIXED CHARGES INCLUDE:

DEPRECIATION FOR SEMINOLE OWNED RESOURCES

LEASE COSTS

INTEREST NET OF INTEREST INCOME

TAXES

MARGIN

LABOR AND OTHER O&M COSTS

DEMAND CHARGES OF PURCHASED POWER

OFFSET BY CHARGES OF OFF-SYSTEM SALES

Exhibit ____ - (**WSS** – 7)

Effective Demand Charge

Based on Marginal

Capacity and Peak Energy Cost

Seminole Electric Cooperative, Inc

Effective Demand Charge Based on Marginal Capacity and Peak Energy Cost

Peak Capacity Cost

(Testimony of Trudy S. Novak, Exhibit (TSN-5))	
Peak Energy Cost	
Extreme Peak Cost in Excess of Energy Charge	\$ 0.81
(\$0.1000/kWh - \$0.0224/kWh) x 84 hours ÷ 8 Months	
Peak Cost in Excess of Energy Charge	\$ 2.15
(\$0.089/LWh - \$0.0994/LWh) = (1.110 hrs - 84 hrs) + 8 Months	

Total Peak Cost

\$11.45