

**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.

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Docket No. 981827

Filed: May 30, 2000

**DIRECT TESTIMONY**  
  
**of**  
  
**WILLIAM STEVEN SEELYE**  
  
**on behalf of**  
  
**LEE COUNTY ELECTRIC  
COOPERATIVE, INC.**

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INTRODUCTION

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**Q. Please state your name and business address.**

A. My name is William Steven Seelye and my business address is The Prime Group, LLC, 6711 Fallen Leaf, Louisville, Kentucky, 40241.

**Q. By whom are you employed?**

A. I am a senior consultant and principal for The Prime Group, LLC, a firm located in Louisville, Kentucky. The Prime Group provides consulting and educational services in the areas of utility rate design, cost of service, regulatory analysis, marketing, and fuel and power procurement.

QUALIFICATIONS AND EXPERIENCE

**Q. Please describe your educational background.**

A. I received a Bachelor of Science degree in Mathematics from the University of Louisville in 1979. I have also completed 54 hours of graduate level course work in Industrial Engineering and Physics at the University of Louisville.

**Q. Please describe your work experience prior to forming The Prime Group.**

A. From May 1979 until July 1996, I was employed by Louisville Gas and Electric Company ("LG&E"). From May 1979 until December 1990, I held various positions within the Rate Department of LG&E. In December 1990, I became Manager of Rates and Regulatory Analysis. In May 1994, I was given

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1 additional responsibilities in the marketing area and was promoted to  
2 Manager of Market Management and Rates. I left LG&E in July 1996 to form  
3 The Prime Group, LLC, with two other former employees of LG&E.  
4

5 **Q. What does your work for the Prime Group entail?**

6 A. Since forming the Prime Group, I have provided consulting services to  
7 investor-owned electric utilities, rural electric cooperatives, and  
8 municipal electric utilities regarding utility rate and regulatory filings,  
9 cost of service and wholesale and retail rate designs. I have prepared  
10 cost of service studies and developed rates for electric utilities. I have  
11 filed transmission rates as a part of Order No. 888 compliance filings  
12 with the Federal Energy Regulatory Commission ("FERC") for a  
13 number of electric utilities. I have also filed Order No. 889 compliance  
14 filings or waiver requests with FERC on behalf of clients. I have  
15 prepared market power analyses in support of market-based rate  
16 filings at FERC for utilities and their marketing affiliates. I have  
17 assisted utilities with their market-based rate filings, and with  
18 developing and implementing strategic marketing plans. I have  
19 advised utility clients regarding: regulatory policy and strategy, state  
20 and federal regulatory filing development, cost of service development  
21 and support, the development of innovative rates to achieve strategic  
22 objectives, the unbundling of rates and the development of menus of  
23 rate alternatives for use with customers, performance-based rate  
24 development, and energy marketing and brokering capability  
25 development. I have provided training to account executives in sales

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1 and customer negotiation, as well as training in ratemaking and  
2 utility finance regarding basic utility marketing. I have provided  
3 marketing, market research and marketing support services for utility  
4 clients and have assisted them in assessing their marketing  
5 capabilities and processes.

6  
7 **Q. Have you ever testified before a state public utility regulatory**  
8 **commission?**

9 **A.** Yes. I have testified before the Kentucky Public Service Commission  
10 in the following cases: Case No. 244 on behalf of LG&E regarding rates  
11 for cogenerators and small power producers; Case No. 8924 on behalf  
12 of LG&E regarding marginal cost service; Case No. 96-161 and Case  
13 No. 96-362 regarding complaints involving Prestonsburg City's  
14 Utilities Commission; Case No. 99-046 regarding an alternative  
15 regulation plan filed by Delta Natural Gas Company; Case No. 99-176  
16 regarding cost of service, rate design and expense adjustments in  
17 connection with a rate case filed by Delta Natural Gas Company; and  
18 most recently, Case No. 2000-080 on behalf of LG&E concerning cost of  
19 service, rate design, and revenue adjustments. I have also testified in  
20 several fuel adjustment clause proceedings on behalf of LG&E.

21  
22 **Q. Have you ever designed rates for electric cooperatives?**

23 **A.** Yes. I have designed rates for both Generation and Transmission  
24 Cooperatives and Distribution Cooperatives. In addition, I have prepared  
25 cost of service studies for both Generation and Transmission Cooperatives

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1 and Distribution Cooperatives. I have also developed transmission tariffs for  
2 Generation and Transmission Cooperatives to meet the "safe harbor"  
3 requirements of FERC Order 888.  
4

5 **PURPOSE AND SUMMARY OF TESTIMONY**  
6

7 **Q. What is the purpose of your testimony in this proceeding?**

8 A. My testimony describes Rate Schedule SECI-7b, the current wholesale rate  
9 schedule for Seminole Electric Cooperative Inc. ("Seminole"), and addresses  
10 whether SECI-7b is designed in accordance with cost of service principles. I  
11 also recommend rate alternatives that more properly reflect the cost of  
12 providing service.  
13

14 **Q. Please summarize your testimony.**

15 A. SECI-7b does not reflect fundamental cost of service principles, and is not  
16 supported by an appropriate cost-of-service analysis. Therefore, SECI-7b is  
17 not fair, just and reasonable.  
18

19 **Q. Are you sponsoring any exhibits to your testimony?**

20 A. Yes. I am sponsoring the following exhibits:

21 Exhibit \_\_\_ (WSS-1) Burns & McDonnell Cost of Service Study  
22 and Wholesale Rate Design (December 1999).  
23

24 Exhibit \_\_\_ (WSS-2) LCEC Cost of Service Analysis.  
25

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1 Exhibit \_\_\_ (WSS-3) Cost Recovery Under SECI-7b Compared  
2 To Actual Cost From Cost of Service Study.

3  
4 Exhibit \_\_\_ (WSS-4) Revenues Produced by LCEC's Proposed  
5 Rate Alternatives Compared to SECI-7b  
6 (Based on Estimated 2001 Billing Units).

7  
8 Exhibit \_\_\_ (WSS-5) Individual Member Billings Under Proposed  
9 Rate Alternatives Compared to SECI-7b  
10 (Based on Estimated 2001 Billing Units).

11  
12 **GENERAL DESCRIPTION OF RATE SCHEDULE SECI-7B**

13  
14 **Q. Please describe the basic design of SECI-7b.**

15 A. SECI-7b is designed around six basic rate components: (1) a Production  
16 Demand Charge, (2) a Production Fixed Energy Charge, (3) a Transmission  
17 Demand Charge, (4) a Distribution Demand Surcharge, (5) a Non-Fuel  
18 Energy Charge, and (6) a Fuel Charge.

19  
20 **Q. Is this a typical rate design for a Generation and Transmission  
21 Cooperative?**

22 A. No. The rate design for a Generation and Transmission Cooperative will  
23 typically consist of a demand charge, energy charge, and a substation charge.  
24 The substation charge is analogous to a customer charge for an investor-

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1 owned utility. The demand charge will typically recover fixed generation and  
2 transmission costs. The energy charge will generally recover variable  
3 expenses such as fuel and certain operation and maintenance expenses. The  
4 substation charge will typically recover the direct customer costs associated  
5 with transmission or distribution substations and related facilities. SECI-7b  
6 differs from traditional rate design because of the Production Fixed Energy  
7 Charge, which allocates a significant portion of Seminole's fixed production  
8 costs on the basis of historical three-year energy (kWhs), unadjusted for  
9 known and measurable changes in usage patterns, rather than on the basis of  
10 current demand (kW).

11  
12 **Q. Please explain the Production Demand Charge Component.**

13 **A.** The Production Demand Charge is a demand charge designed to recover a  
14 portion of Seminole's fixed production costs. The charge is applied on the basis  
15 of customer demands determined at the time of Seminole's monthly peak,  
16 which is referred to as the "coincident peak" demand. The Production Demand  
17 Charge is only applicable during Seminole's eight peak months – the four  
18 summer months of June through September and the four winter months of  
19 December through March, and is not applied during the four "shoulder"  
20 months of April, May, October and November.

21  
22 **Q. Please explain the Production Fixed Energy Charge.**

23 **A.** The Production Fixed Energy Charge is designed to recover all fixed  
24 production costs not recovered through the Production Demand Charge. The  
25 Production Fixed Energy Charge is *allocated* to Seminole's customers on the

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1 basis of each customer's total kWhs purchased from Seminole during a three-  
2 year period prior to the current year and is apportioned equally across each  
3 month of the year. There is a one-year lag between the end of the three-year  
4 period used to determine the allocation of the Production Fixed Energy  
5 Charge and the current year. For example, during the year 2000, the  
6 Production Fixed Energy Charge is allocated on the basis of each distribution  
7 member's kWh purchases determined during the three-year period 1996  
8 through 1998, *unadjusted for actual known changes in usage patterns*. The  
9 Production Fixed Energy Charge therefore is based on energy purchases that  
10 occurred up to 59 months (almost five years) earlier. For example, in  
11 December 2000, the Production Fixed Energy Charge will be determined on  
12 the basis of energy usage going back to January 1996.

13  
14 **COST OF SERVICE ANALYSIS**

15  
16 **Q. Why do you assert that SECI-7b is not supported by an appropriate**  
17 **cost-of-service analysis?**

18 **A. Based on the information I have reviewed, Seminole failed to prepare a cost-**  
19 **of-service study prior to the implementation of SECI-7, which was the**  
20 **predecessor rate schedule that formed the basis for SECI-7b. A cost of service**  
21 **was performed by Seminole's consulting company, Burns & McDonnell, in**  
22 **December 1999, but that was done almost one year after implementation of**  
23 **SECI-7.**

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1           **Q.     What is the relationship between SECI-7 and SECI-7b?**

2           A.     SECI-7 and SECI-7b are structurally very similar. The primary difference is  
3                   that SECI-7 provided for ramping of the Production Demand Charge and the  
4                   Production Fixed Energy Charge. SECI-7b eliminates that ramping function.

5  
6           **Q.     Please explain ramping.**

7           A.     SECI-7 provided that the Production Demand Charge would ramp down over  
8                   a three year period from \$8.50/kw/Month for the year 1999 to  
9                   \$7.50/kw/Month for the year 2000 to \$6.50/kw/Month for the year 2001.

10                   Under SECI-7 there was to be a corresponding increase in the Production  
11                   Fixed Energy Charge over this same period. Thus, SECI-7 shifted the  
12                   recovery of a large portion of fixed production costs from the Production  
13                   Demand Charge to the Production Fixed Energy Charge over a three-year  
14                   period.

15  
16           **Q.     When and why was SECI-7b implemented?**

17           A.     Seminole's Board of Trustees approved SECI-7b on December 9, 1999.

18                   LCEC had serious concerns with Seminole recovering a large portion of its  
19                   fixed production costs on an energy basis, especially through a component  
20                   that is allocated on the basis of three-year historical kWh purchases. In  
21                   response to concerns expressed by LCEC (and other members), SECI-7b was  
22                   adopted so as not to reduce the Production Demand Charge and increase the  
23                   Production Fixed Energy Charge in 2000. Instead, under SECI-7b, the  
24                   Production Demand Charge remained at \$8.50 and the Production Fixed

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1 Energy Charge was not increased. SECI-7b is essentially the same as SECI-  
2 7, except that the Production Demand Charge is not ramped down in 2000  
3 and 2001 and the Production Fixed Energy Charge is not ramped up as  
4 designed in SECI-7.  
5

6 **Q. Does the December 1999 Burns & McDonnell cost of service study**  
7 **support SECI-7 or SECI-7b?**

8 A. No. The cost of service study does not support allocating a portion of  
9 Seminole's fixed production costs on the basis of unadjusted three-year  
10 historical kWh purchases, which continues to be a feature of SECI-7b. In the  
11 Burns & McDonnell cost of service study, none of Seminole's fixed production  
12 costs were allocated on the basis of three-year historical energy (kWhs).  
13 Additionally, the cost of service study does not support ramping down of the  
14 Production Demand Charge as was contemplated under SECI-7.  
15

16 **Q. Does SECI-7b reflect the cost of providing service?**

17 A. No. This is evident in the very language that Seminole used to describe the  
18 development of SECI-7. When Seminole was developing SECI-7, it referred to  
19 the process of shifting fixed production costs from the demand charge to the  
20 energy charge as "Tilting." In this context, "Tilting" suggests that the rate  
21 was being "Tilted" away from a standard (or "Traditional") cost of service  
22 methodology to something altogether different. This fact is reinforced by  
23 statements in the cost of service study prepared by Burns & McDonnell. See  
24 page ES-4 of Exhibit \_\_ - (WSS - 1). In describing a "Traditional" approach to

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1 performing a cost of service study, Burns & McDonnell stated that: "This type  
2 of assignment recognizes the cost-causation relationship for the utility as it  
3 exists today". Therefore, a rate design which is "Tilted" departs from a  
4 standard or "Traditional" approach which recognizes the cost-causation  
5 relationship for the utility as it exists today.

6  
7 **Q. Have you performed an analysis of Seminole's cost of service?**

8 **A.** Yes. I have prepared an analysis based on the information contained in the  
9 December 1999 Burns & McDonnell Study. See Exhibit \_\_ - (WSS- 2).

10  
11 **Q. Please describe the methodology used in your analysis.**

12 **A.** I used the cost information contained in the study, but applied a standard  
13 cost-of-service methodology. All production plant cost was assigned to  
14 production-demand. Land and land rights were assigned based on total  
15 production and transmission plant. Transportation equipment was assigned  
16 to production-demand. Since depreciation reserve is created by depreciating  
17 and amortizing plant investment, depreciation reserve was functionally  
18 assigned based on plant.

19  
20 Expense functional assignments were also modified from Burns &  
21 McDonnell's original study. Power production expenses were functionally  
22 assigned based on the predominance methodology utilized by FERC. Under  
23 the FERC's predominance methodology, Accounts 500, 502, 505, 506, 507,  
24 511, 514, and 528 are assigned to production-demand. Accounts 501, 510,

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1           512, 513, and 518 are assigned to production-energy. Accounts 920, 923, and  
2           930 were assigned on the same basis as non-Administrative & General  
3           operation and maintenance expenses. Property insurance (Account 924) and  
4           property taxes (Account 408.1) were allocated on the basis of net plant. The  
5           following table attached hereto as Exhibit \_\_ (WSS - 3) compares the  
6           percentage of the costs classified as demand, energy and customer related to  
7           the revenue recovery through the demand charge and energy charge under  
8           SECI-7b based on 2001 billing determinants.

9  
10       **Q.     What does this table indicate?**

11       **A.**It shows that Seminole, through SECI-7b, is recovering much more of the cost  
12           through an energy charge or energy allocator than can be supported by a  
13           standard cost of service methodology. This illustrates how demand-related  
14           costs have been "Tilted" into an energy component. The cost of service study  
15           indicates that 49.25% of Seminole's costs are energy related, while 58.46% of  
16           Seminole's cost recovery is collected in an energy charge or energy allocator in  
17           SECI-7b. This disparity between energy related cost of providing service and  
18           the amount of revenues collected through the energy charge cannot be  
19           justified.

20  
21       **Q.     Does your cost of service analysis support recovering a portion of**  
22           **Seminole's fixed production costs on the basis of a historical three-**  
23           **year energy allocator as prescribed in SECI-7b?**

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1           A.    No, it does not. There is no basis whatsoever for allocating Seminole's fixed  
2                    production costs on the basis of three-year kWh energy requirements. In fact,  
3                    there is no basis for allocating fixed production costs on the basis of energy,  
4                    much less on the basis of three-year historical energy unadjusted for known  
5                    and measurable changes. There is no causal relationship between the  
6                    amount of energy that Seminole's members use during a historical three-year  
7                    period and fixed production costs. Consequently, recovering a portion of  
8                    Seminole's fixed production costs on the basis of a three-year energy allocator  
9                    is arbitrary.

10  
11           Q.    Please describe Burns and McDonnell's cost-of-service study.

12           A.    The Burns and McDonnell study examines three cost of service methodologies  
13                    -- Traditional, Energy, and Equivalent Peaker. The report explains that with  
14                    the "Traditional" approach, production plant and fixed O&M are recovered  
15                    through the demand charge, and fuel and variable O & M are recovered  
16                    through the energy charge. The Burns and McDonnell report describes the  
17                    "Traditional" approach as follows:

18                            Using a traditional approach, the investment cost (and  
19                            fixed O&M cost) of a plant are recovered through the  
20                            demand charge and the commodity cost of fuel and  
21                            variable O&M are recovered through an energy charge.  
22                            This type of assignment recognizes the cost causation  
23                            relationship for a utility as it exists today.

24                    Page ES-4 of Exhibit \_\_\_\_ (WSS-1).

25

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1           Although I disagree that Burns & McDonnell's methodology can be fully  
2           characterized as a "Traditional" cost of service approach, based on the results  
3           described in their report it appears that this methodology, to some extent,  
4           follows the methodology I used in calculating cost of service. However, since  
5           only the results of this methodology were supplied, and not the details, it is  
6           not possible to determine exactly how costs were assigned and allocated.

7  
8           The "Energy" approach assigns all base-load plant investment to production-  
9           energy, with only peaking capacity plant assigned to production-demand. As  
10          with the "Traditional" approach, only the results of this methodology were  
11          supplied; therefore, it is not possible to determine exactly how costs were  
12          assigned and allocated. Burns & McDonnell does not recommend this  
13          approach.

14  
15          The methodology recommended by Burns and McDonnell is the "Equivalent  
16          Peaker" methodology. This methodology assigns fixed production costs to  
17          production-demand *as if* all of the production facilities had been installed as  
18          peaking capacity. The excess of actual plant investment over the estimate of  
19          a hypothetical investment in peaking plant is assigned to production-energy.  
20          The argument given by Burns & McDonnell for this assignment scheme is  
21          that base-load units are installed as much for their low-cost energy as they  
22          are for their capacity.

23  
24          **Q. Do you agree with Burns & McDonnell's recommendation?**

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1           A.    No. I believe that there are at minimum seven serious flaws in this type of  
2                    cost allocation. First, the "Equivalent Peaker" methodology uses hypothetical  
3                    costs instead of Seminole's actual costs to determine the cost of providing  
4                    service. In Burns & McDonnell's study, Seminole's base-load generation  
5                    capacity cost has been restated on the basis of the hypothetical cost of  
6                    combustion turbine capacity. In this study, demand-related costs were  
7                    determined on the basis of the cost of combustion turbines that have been  
8                    installed around the country by other utilities adjusted to current year  
9                    dollars. This approach is based on the fiction that Seminole's costs are  
10                  somehow related to the cost incurred by other utilities to install combustion  
11                  turbine capacity. Seminole has base-load capacity on its system, and any  
12                  kind of cost allocation should reflect this fact.

13  
14                Second, with the "Equivalent Peaker" methodology, the cost of combustion  
15                turbine capacity has been imputed, but the fuel and other operating expenses  
16                associated with combustion turbine capacity has not been similarly imputed.  
17                In other words, Burns & McDonnell calculated demand-related costs on the  
18                basis of hypothetical gas- or oil-fired generation capacity, which has a lower  
19                capacity cost but a much higher fuel cost than base-load generation capacity.  
20                With the "Equivalent Peaker" methodology, the cost assigned to meeting the  
21                peak demand is understated because the fuel cost of gas- or oil-fired  
22                combustion turbines, which is much higher than the fuel cost for base-load  
23                generation, has not been assigned to the peak demand. During off-peak  
24                periods, combustion turbines would not be operated because there would be

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1 plenty of low-cost energy available in the marketplace; therefore, the  
2 operating costs of combustion turbines should be assigned to the peak rather  
3 than to off-peak kWh usage. The assignment of the higher cost of fuel for gas-  
4 or oil-fired combustion turbines to the peak is as supportable as the  
5 assignment of the capacity cost of combustion turbines to the peak. However,  
6 in Burns & McDonnell's study, the operating costs of combustion turbines  
7 have not been assigned to the peak in a manner consistent with the treatment  
8 of combustion turbine capacity. In fact, the higher operating cost of  
9 combustion turbine capacity has not been dealt with at all.

10  
11 Third, Burns & McDonnell's application of the "Equivalent Peaker"  
12 methodology does not recognize the historical development of Seminole's  
13 system. Their methodology looks at the system as if Seminole's generation  
14 capacity was installed all at once. As such, it ignores the historical fact that  
15 Seminole's system resources consist of a large amount of base-load capacity.

16  
17 Fourth, the use of the "Equivalent Peaker" methodology in assigning fixed  
18 production cost is inconsistent with the assignment of fixed transmission  
19 costs. In Burns & McDonnell's study, fixed production costs are assigned on  
20 the basis of the "Equivalent Peaker" methodology, but fixed transmission  
21 costs are assigned entirely as demand-related. There is no justification for  
22 this inconsistency. Transmission facilities are primarily used to deliver  
23 power produced from the utility's generation resources to its customers.  
24 Therefore, the cost assignment for fixed transmission costs should follow the

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1 utility's production function. The Burns & McDonnell study recognizes that  
2 fixed transmission costs should not be allocated on the basis of energy; it  
3 should likewise recognize that fixed production costs should not be allocated  
4 on the basis of energy.

5  
6 Fifth, the use of the "Equivalent Peaker" methodology is inconsistent with  
7 methodologies for allocating fixed production costs that have been endorsed  
8 by the FERC. In assigning fixed production costs, the FERC has endorsed the  
9 use of a 12-month coincident peak ("12-CP") methodology, which is essentially  
10 the same approach that I used to perform my cost of service study. For that  
11 reason, it is unlikely that FERC would allow the use of the "Equivalent  
12 Peaker" methodology for either allocating fixed production or transmission  
13 costs.

14  
15 Sixth, although the "Equivalent Peaker" methodology is based on  
16 hypothetical costs, these costs do not reflect Seminole's marginal cost.  
17 Seminole's marginal cost must reflect the cost of combined-cycle generation  
18 which Seminole currently plans to install. Instead, the "Equivalent Peaker"  
19 methodology uses the hypothetical cost of combustion turbines that were  
20 installed by other utilities around the country, regardless of whether these  
21 units were combined-cycle units.

22  
23 Seventh, there are several computational and methodological errors in Burns  
24 & McDonnell's study. For example, the billing units used in the study appear

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1 to be incorrect. On Table ES-4 of Burns & McDonnell's report (See Exhibit  
2 \_\_\_ (WSS- 1)), the kWh Purchased and the Sum of Monthly Coincident Peaks  
3 (kW) shown for Talquin, Tri-County, and Withlacoochee could not possibly be  
4 correct. For example, the Sum of Monthly Coincident Peaks (kW) for  
5 Withlacoochee is set out as 838,935, while the kWh Purchased is  
6 12,194,143,481. This results in a load factor of approximately 471 percent,  
7 which does not appear to be within the realm of possibility. The demands  
8 shown for Withlacoochee appear to be significantly understated. Similar  
9 problems are evident in Talquin's and Tri-County's demands.

10  
11 **Q: Are there other problems with the study?**

12 **A:** Yes. Several production operation and maintenance expenses have been  
13 improperly assigned as energy-related. Specifically, Accounts 502-Steam  
14 Expenses, 505-Electric Expenses, 506-Miscellaneous Steam Power Expenses,  
15 512-Maintenance of Boiler Plant, 513-Maintenance of Electric Plant, and 514-  
16 Maintenance of Miscellaneous Steam Plant have all been assigned exclusively  
17 as energy-related. There is no basis for this assignment. The methodology is  
18 inconsistent with the "Predominance" methodology, which is utilized by the  
19 FERC in classifying operation and maintenance expenses for wholesale  
20 electric utilities, as described earlier in my testimony.

21  
22 The impact of assigning production operation and maintenance expenses in  
23 the manner utilized by Burns & McDonnell is to assign a larger portion of  
24 Seminole's fixed production costs on the basis of energy.

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**RATE DESIGN RECOMMENDATION**

**Q. What rate design do you recommend for Seminole?**

A. There are several alternatives that would better reflect costs than SECI-7b. Under the first alternative (Rate Alternative 1), Seminole could implement a more traditional rate design consisting of: (i) a monthly demand charge that recovers fixed production and transmission costs, (ii) an energy charge that recovers variable operation and maintenance expenses, and (iii) a distribution delivery charge that recovers the cost of distribution facilities on Seminole's system. These charges can be derived from the results of my cost of service study. LCEC's proposed rate for this alternative is shown below:

**Rate Alternative 1**

Demand Charge (Applied to all 12 months)	\$9.13/kW/Mo
Energy Charge	\$0.0224/kWh
Distribution Delivery Charge	\$1.26/kW/Mo

Under the second alternative (Rate Alternative 2), Seminole could offer an unbundled rate with a seasonally differentiated production demand charge that recovers all fixed production costs during the eight peak months. This alternative would be similar to SECI-7b except that Seminole's fixed production costs would be recovered through the demand charge rather than

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1 the Production Fixed Energy Charge. LCEC does not object to either  
2 unbundling the rate or developing a demand charge that is higher during the  
3 eight peak months. What LCEC objects to is the allocation of the Production  
4 Fixed Energy Charge on the basis of energy. LCEC's proposed rate for this  
5 alternative is shown below:

**Rate Alternative 2**

6  
7 Production Demand Charge (Applied to 8 peak months) \$10.59/kW/Mo  
8 Transmission Demand Charge (Applied to all 12 months) \$1.49/kW/Mo  
9 Distribution Delivery Charge (Applied to all 12 months) \$1.26/kW/Mo  
10 Fuel Charge \$0.01989/kWh  
11 Non-Fuel Energy Charge \$0.00254/kWh  
12

13 Under the third alternative (Rate Alternative 3), Seminole could allocate the  
14 Production Fixed Energy Charge on the basis of demand rather than energy.  
15 The use of a demand allocator would be preferable to an energy allocator,  
16 although I would not recommend using three year historical data to allocate  
17 the charge. The proposed rate for this alternative is shown below:

**Rate Alternative 3**

18  
19  
20  
21 Production Demand Charge (Applied to 8 peak months) \$8.50/kW/Mo  
22 Production Fixed Demand Charge \* \$46,046,418  
23 Transmission Demand Charge (Applied to 12 months)  
24 \$1.49/kW/Mo

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1	Distribution Delivery Charge	\$1.26/kW/Mo
2	Fuel Charge	\$0.01989/kWh
3	Non-Fuel Energy Charge	\$0.00254/kW

4           \*       Allocated on the basis of the 12-month member system  
5           demands.  
6

7       **Q.    Are these rate alternatives designed to recover the same revenue**  
8       **requirement as SECI-7b?**

9       A.    Yes. As shown in Exhibit \_\_\_ (WSS-4), all three of these rate alternatives  
10       will produce the same revenue as SECI-7b based on Seminole's estimated  
11       billing units for the year 2001. The impact on the individual member systems  
12       is shown in Exhibit \_\_\_ (WSS-5).  
13

14       **Q.    Of these three alternatives, which is the most appropriate?**

15       A.    All three of these alternatives are preferable to SECI-7b. They are more  
16       consistent with the generally accepted ratemaking principles in that they all  
17       eliminate the Production Fixed Energy Charge. The elimination of the  
18       Production Fixed Energy Charge will result in costs being allocated in a  
19       manner that more properly reflects the cost of providing service. In addition,  
20       our three recommended alternatives will avoid the use of stale billing data  
21       based on three-year historical kWhs that are up to 59 months old and that  
22       have not even been adjusted for known and measurable changes in customer  
23       usage. This should remove impediments to conservation, load management,  
24       on-site generation, and competition, which my colleague, Martin Blake,

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1 discusses in his testimony. Elimination of the Production Fixed Energy  
2 Charge will also alleviate the unnecessary complexity of the current rate  
3 structure and will satisfy concerns regarding undue rate discrimination.  
4

5 All three of these alternatives are therefore acceptable to LCEC. Rate  
6 Alternative 1 is the least complicated of the three alternatives and represents  
7 a more traditional rate structure for a Generation and Transmission  
8 Cooperative. However, because the charges under Rate Alternative 2 are (i)  
9 unbundled, (ii) seasonally differentiated, and (iii) do not contain any sort of  
10 ratchet, I believe that this alternative more properly reflects the cost of  
11 providing service and for that reason is preferred.  
12

13 **Q: Does this conclude your testimony?**

14 **A: Yes.**  
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