

In Re: Petition of Gulf Power)
Company for an Increase in its)
Rates and Charges)
_____)

~~Docket No. 891345-EI~~
Filed: May 15, 1990

**REBUTTAL TESTIMONY OF
ROBERT SCHEFFEL WRIGHT**

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Respectfully submitted,

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 891345-EI

REBUTTAL TESTIMONY

OF

ROBERT SCHEFFEL WRIGHT

ON BEHALF OF

CITIZENS OF THE STATE OF FLORIDA

1 Q: Please state your name and business address.

2

3 A: My full name is Robert Scheffel Wright. I am employed as
4 Vice President and Principal Consultant with the
5 consulting firm, West Park Group, Inc. The firm's
6 business address is 501 East Tennessee Street, Suite D,
7 Tallahassee, Florida 32308. I am also employed as
8 Resident Economist and Special Consultant on regulatory
9 and economic matters with the law firm of Wiggins &
10 Villacorta, Post Office Drawer 1657, Tallahassee, Florida
11 32302.

12

13 Q: Are you the same Robert Scheffel Wright who has previously
14 filed direct testimony in this proceeding on behalf of the
15 Citizens of the State of Florida?

16

17 A: Yes, I am.

18

19 Q: What is the purpose of your rebuttal testimony?

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1

2 A: I shall rebut numerous assertions and arguments made by
3 Mr. Jeffry Pollock against the Equivalent Peaker and
4 Refined Equivalent Peaker cost of service methods.
5 Specifically, I will rebut his proposal that all
6 production plant costs should be classified as demand-
7 related. My testimony will demonstrate that an example
8 that he presents in his testimony to illustrate problems
9 with peaker type methods is an inapt analogy and
10 demonstrates either a mis-characterization or a basic
11 misunderstanding of the way that such methods work. I
12 will rebut his assertion that the Basic Equivalent Peaker
13 and Refined Equivalent Peaker cost methods are subject to
14 what he defines as a "fuel symmetry" problem. I will
15 rebut his suggestion that the EP and REP methods need to
16 be "corrected" to reflect differences in reliability
17 between peaking type units and baseload coal-fired units.
18 I will also rebut various other assertions and arguments
19 that he makes in his direct testimony.

20

21 I shall also offer what I would characterize as "rebuttal
22 commentary" on two issues discussed by Mr. Pollock and by
23 Stone Container Corporation's Witness Tom Kisla: (1) the
24 possibility of relieving self-generating customers (SGCs)
25 from the production and bulk transmission reservation

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1 charges in Gulf's Standby Service tariff for maintenance
2 power service taken by SGCs in coordination with the
3 utility, and (2) the possibility of permitting SGCs to
4 take power as supplemental power, under Gulf's
5 Supplemental Energy tariff, during operationally defined
6 off-peak periods, even when the customer has other
7 generation capacity available. I characterize my
8 testimony on these subjects as "rebuttal commentary"
9 because I believe that, under some conditions, these
10 proposals may have some merit, and because my intention is
11 to identify and clarify certain issues arising from them,
12 rather than to attack and refute them.

13
14 Classification of Production Plant Costs

15
16 Q: At page 24 of his testimony and elsewhere therein, Mr.
17 Pollock argues that all production capital costs are
18 demand-related and should be allocated to classes using a
19 peak demand allocator. What is your response?

20
21 A: My response is that this is an arbitrary classification of
22 production plant costs that completely ignores the
23 economic considerations that enter into utility generation
24 expansion planning decisions. Utility generation planning
25 generally consists of two phases. In the first, using

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1 reliability criteria, the utility identifies needs for
2 additional capacity and the timing of additional capacity
3 requirements. In the second phase, an economic analysis
4 is conducted to determine what type of capacity should be
5 added, considering the energy loads to be served.
6 Classifying and allocating all production plant costs on
7 the basis of peak demands completely ignores the important
8 economic considerations that drive decisions regarding
9 what type of plant to build, and therefore how much will
10 be spent on production plant.

11
12 Q: At page 9 of his testimony, Mr. Pollock states that "when
13 the hours of use are considered, the capital cost per
14 kilowatt-hour for the base load plant is usually less than
15 the capital cost per kilowatt-hour for the peaking plant.
16 Of course, since the fuel costs of base load plants are
17 generally lower than the fuel costs of peaking plants, the
18 overall cost per kilowatt-hour for base load plants is
19 also less than the overall cost per kilowatt-hour for
20 peaking plants." What are your thoughts on this
21 statement?

22
23 A: Frankly, I believe that this statement supports equivalent
24 peaker type cost methods. As Mr. Pollock puts it, when
25 hours of use are considered, capital costs per kilowatt-

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1 hour are lower for baseload plants. I readily recognize
2 that utilities plan their system in order to minimize
3 total costs and not blindly to achieve fuel cost savings.
4 Obviously, a great enough capital cost would wipe out any
5 potential benefits to be realized from fuel savings, and
6 thus building baseload units would not be economically
7 viable. Again, I am entirely comfortable with the
8 proposition that in planning, utilities endeavor to
9 minimize total average costs based on the hours a new
10 generating unit is planned or expected to run. This
11 affirms that hours of use or hours of run time are
12 obviously important in the utility's consideration of what
13 type of unit and therefore how costly a unit to build.

14
15 Near-Peak Demand Cost Allocation Method

16
17 Q: What is your opinion of Mr. Pollock's proposed Near-Peak
18 Demand cost allocation method?

19
20 A: I cannot support or agree with the overall cost allocation
21 method proposed by Mr. Pollock because of its failure to
22 recognize the important role of energy requirements in
23 generation expansion planning decisions.

24

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1 His proposed method would classify all production plant
2 costs as demand-related; this simply bears no relation to
3 actual cost causation in generation expansion planning, in
4 which both peak demands and energy requirements play an
5 important role, the peak demands usually determining
6 amounts and timing of plant additions and the energy
7 requirements determining the type of plant to be built.

8
9 His classification principle reduces to: "If it's a
10 production plant cost, it must be demand-related." This
11 is clearly the most arbitrary standard for classifying
12 production plant that has been advanced in this case. The
13 only other standard that could possibly rival its
14 arbitrariness would be its polar opposite: "If it's a
15 production plant cost, it must be energy-related."

16
17 I do believe that his proposed near-peak demand allocator
18 may be a reasonable allocation factor to use for
19 allocating those costs that are appropriately classified
20 as being related to or driven by system coincident peak
21 demands. However, before endorsing it or rejecting it, I
22 would want to see additional information on reliability
23 criteria values in his "near-peak" hours and in the peak
24 and near-peak hours of the fall, spring, and winter
25 months.

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If the Commission is to use a near-peak demand factor for allocating demand-related production and transmission costs in this proceeding, it must be aware of several factors. First, in some cases, notably the Christmas holidays of 1989, Gulf does achieve significant system peaks in the winter. Because the implication of Mr. Pollock's near-peak allocation factor, which is based entirely on summer hours, is that there are no peak-demand-related costs in the winter, the Commission must, over time, continue to monitor Gulf's and the Southern Company's winter demand growth. The Commission must also consider the implications of adopting such a factor for rate design, especially relative to seasonal rate differentiation; allocating no demand-related production and transmission costs on the basis of winter peak demands seems to suggest that it would not be proper cost-based ratemaking to recover these costs in winter rates.

Second, the Commission should at least use the 12 CP allocation factor specifically for the purpose of allocating capacity revenues received by Gulf or capacity payments made by Gulf pursuant to the Southern Company's Intercompany Interexchange Contract, because IIC payments and revenues are determined on the basis of each monthly

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1 peak regardless whether it occurs in the summer, winter,
2 spring, or fall.

3 Baseload Unit Cost Overruns

4
5 Q: In his discussion at pages 11-12, Mr. Pollock makes the
6 point that new baseload units may, by the time they come
7 into service, cost much more than they were projected to
8 cost when they were originally planned and contracted for.
9 Does this affect your view as to the proper classification
10 of the cost of such units above the cost of a peaker?

11
12 A: No, it does not. While it is undoubtedly true that
13 baseload units have in recent years been brought into
14 service at costs significantly higher than originally
15 projected, it does not follow that the excess costs should
16 be classified as demand-related and allocated on the basis
17 of class contributions to peak demands. Cost analysts,
18 and utility commissioners, must look back to the
19 utilities' original decisions to build baseload units,
20 because those decisions are what eventually resulted in
21 greater than anticipated costs. The original decision
22 would have been based primarily on economic
23 considerations driven by all classes' energy loads, that
24 is, on lower costs to be afforded the utility and its
25 ratepayers by building a baseload plant that would serve

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1 broad energy loads. Therefore, it is still appropriate to
2 classify the plant costs above the costs of peaking
3 capacity as energy-related.

4
5 You also have to address the question, "Upon whom would
6 the burden of cost overruns otherwise be imposed?" There
7 are two obvious choices at the outset. First, the cost
8 might be imposed on the utility's shareholders, based on
9 the argument that they should bear some risk and
10 responsibility for cost overruns and for keeping costs in
11 line with projections. Alternatively, the costs might be
12 borne by the utility's general body of ratepayers.

13
14 Once the prudence issue has been settled, though, the
15 question of the appropriate classification and allocation
16 of the allowed plant costs must still be addressed. To
17 the extent that energy loads contributed substantially and
18 significantly to the utility's decision to build the
19 baseload unit, energy should be the basis for allocating
20 the costs of the plant above those that would have been
21 incurred to build a peaking unit. It would simply be
22 wrong -- inconsistent with cost-causation principles and
23 thus inequitable -- to impose these energy-driven costs on
24 classes and customers based on their peak demands.

25

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1 Q: On page 12, Mr. Pollock makes the statement that "it is
2 wrong to assume that observed differences in capital costs
3 are always the result of conscious decisions to spend more
4 per kW in order to achieve lower operating costs." How do
5 you respond to this statement?
6

7 A: While the statement is probably true as far as it goes, it
8 does not constitute a valid criticism of peaker type cost
9 of service methods. In particular, the statement is
10 misleading if it attempts to create the impression or idea
11 that excess capital costs due to unanticipated cost
12 overruns should be classified as demand-related. (This
13 would be true for cost overruns associated with a peaking
14 unit, because the decision to build the peaker would have
15 been driven by peak demand growth, but it is not true for
16 baseload plant cost overruns.)
17

18 In the first place, neither the Equivalent Peaker method
19 nor the Refined Equivalent Peaker method assume anything
20 about the higher capital costs of baseload units, whether
21 intended or unanticipated. These methods recognize that,
22 in order to be prudent and reasonable, higher capital
23 costs must have been incurred consciously by the utility.
24 Surely, with substantial capital expenditures on the line,
25 any decision to build an intermediate or baseload plant,

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1 at a higher capital cost than that required to build a
2 peaker, had best be conscious, well-thought out, well-
3 analyzed, and well-documented. Secondly, as I discussed
4 above, although the actual difference between the cost of
5 a baseload unit and a peaker may be greater than
6 originally anticipated, the excess costs are still the
7 result of the conscious decision by the utility to build
8 the baseload unit, a decision driven by the energy loads
9 that the unit was expected to serve.

10
11 Break-Even Point Analysis and Refined Equivalent Peaker Method

12
13 Q: In his discussion beginning on page 15, Mr. Pollock argues
14 that if a new generating unit "is expected to run beyond a
15 certain point, called the break-even point, it is more
16 economical to install base load capacity rather than
17 peaking capacity. In other words, once the break-even
18 threshold is reached, additional energy use (and the fuel
19 cost savings resulting therefrom) would not affect the
20 investment decision." Is this a valid argument for
21 preferring the Refined Equivalent Peaker method over the
22 Basic Equivalent Peaker method?

23
24 A: No. While it may, under some circumstances, be true that
25 a utility would decide to build a baseload unit if needed

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1 additional generating capacity were expected to run more
2 than a certain number of hours, it does not follow that
3 the critical hours are those under the high-demand end of
4 the load duration curve.

5
6 In the first place, any sufficient number of hours in
7 which the unit would dispatch could drive the decision to
8 build baseload plant, regardless when these hours
9 occurred. Mr. Pollock's assertion that it is the hours
10 under the high-demand end of the load curve that drive the
11 decision is simply a "what if" hypothesis; other "what if"
12 hypotheses involving off-peak load growth could produce
13 the same result. By the rationale of the break-even
14 analysis, any hours in which the unit would dispatch could
15 drive the decision, regardless whether they were under the
16 high-demand end or another segment of the load curve. In
17 Florida, we have even observed a case where a utility
18 built a new baseload coal unit, even though the unit's
19 capacity was not needed for reliability purposes until
20 several years later, in order to lower total costs. This
21 investment decision must have been driven by off-peak as
22 well as on-peak energy loads.

23
24 Secondly, as I understand the process, the economic
25 analyses in generation expansion planning are based on all

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1 energy loads that the utility expects to serve over a
2 fairly long time horizon. Thus, because the Basic EP
3 method allocates the additional capital costs of baseload
4 units above the costs of peakers according to all energy
5 consumption, it more accurately reflects actual generation
6 planning and decisions.

7
8 Q: Do you have any thoughts about Mr. Pollock's car example
9 on page 16 of his testimony?

10
11 A: Yes. This example, and most particularly the conclusion
12 that Mr. Pollock asserts at lines 18-19, shows a clear
13 misunderstanding or mis-characterization of how the EP and
14 REP methods work. In his example, Mr. Pollock
15 hypothesizes a scenario where a fuel-efficient car is
16 bought and then driven 200 miles by one customer and 400
17 miles by another. He asserts that "[t]he EP and REP
18 methods . . . would assign twice as much car [cost] to the
19 second customer." This is simply false. Following this
20 analogy, albeit an inapt one, the peaker methods would
21 allocate only the difference between the cost of the fuel-
22 efficient car and the gas-guzzling alternative on the
23 basis of the two customers' mileage. The initial capital
24 cost of the gas-guzzling alternative would be allocated on

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1 the basis of a demand allocator, assuming that one could
2 be developed for this example.

3
4 Reliability Differences Between Baseload and Peaking Units

5
6 Q: At pages 20-22 of his testimony, Mr. Pollock asserts that
7 there are significant reliability differences between
8 baseload and peaking units, necessitating adjustments in
9 the peaker cost methods' calculation of equivalent peaker
10 costs. What is your response?

11
12 A: My response is that his analysis is incomplete and that it
13 is not at all clear that the appropriate adjustments would
14 operate in the way that he suggests.

15
16 While it is true that the NERC (North American Electric
17 Reliability Council) report cited by Mr. Pollock shows
18 that peaking units have substantially higher forced outage
19 rates than do baseload units, it is not clear that they
20 are less reliable. First, it is significant to observe
21 that the forced outage rate statistic is outage hours
22 divided by run hours; because peakers run very little,
23 around 200 hours per year according to the NERC data, any
24 outage will result in sizeable forced outage rates.
25 Additionally, infrequent usage may tend to result in more

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1 frequent start-up problems that would not be encountered
2 if the unit were run continuously for substantial periods
3 of time.

4
5 Additionally, to evaluate and understand reliability, one
6 should consider not only forced outage rates but also
7 availability factors and equivalent availability factors
8 in evaluating whether one generating technology is more
9 reliable than another. Significantly, the equivalent
10 availability factor (EAF) is the primary variable, along
11 with unit heat rate, used by this Commission to determine
12 Generating Performance Incentive Factors. From the same
13 NERC Generating Availability Report, 1984-1988 used by Mr.
14 Pollock, I have extracted data on availability factors
15 (AFs) and equivalent availability factors (EAFs) for
16 baseload coal units and the three types of peakers
17 addressed by Mr. Pollock in his discussion on this issue.
18 These data are reported in my Exhibit ____ (RSW-RT-1).
19 This is comparable to, and in fact is really an expanded
20 version of, Schedule 3 of Mr. Pollock's Exhibit JP-1.
21 Ranked by both Availability Factor and Equivalent
22 Availability Factor, coal-fired baseload units appear to
23 be less reliable than any of the three categories of
24 peakers. Coal units' AF for the 1984-1988 period was
25 82.77 percent, as compared to AFs above 90 percent for the

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1 peakers; coal units' EAF for the period was 79.72 percent,
2 as compared to EAFs of 85 percent to 95 percent for the
3 peakers. While I am not proposing any reliability
4 adjustments in computing the cost of equivalent peaking
5 capacity in the EP and REP studies, these data appear to
6 show that baseload coal units are less available than are
7 peakers, such that any adjustment might well work in the
8 opposite direction of that suggested by Mr. Pollock.

9
10 Additionally, I would expect Mr. Pollock to be familiar
11 with the use of combustion turbine and other peaking
12 technologies in cogeneration applications where very high
13 availability and capacity factors are achieved. Indeed,
14 while I was still on the Commission staff, one of Mr.
15 Pollock's clients in this case made presentations to us
16 regarding its great success in attaining capacity factors
17 above 90 percent using CT technology in cogeneration
18 applications. This performance also shows the high
19 reliability of peaking technologies when they are used in
20 long-run-time applications.

21
22 Alleged Fuel Symmetry Problem

23
24 Q: On page 12 of his testimony, Mr. Pollock begins his
25 discussion of the Equivalent Peaker and Refined Equivalent

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1 Peaker methods' alleged fuel symmetry problem. Later, at
2 page 19, he goes on to state that by a peaker type cost
3 study, a high load factor customer class would typically
4 be allocated above average capital costs. What is your
5 response?
6

7 A: It is true that by peaker studies, high load factor
8 customer classes are allocated above-average plant costs
9 when those costs are defined and expressed in terms of
10 dollars per kW of capacity. It is not true, however, that
11 they are allocated greater than average costs per
12 kilowatt-hour for these units. Nor is it necessarily true
13 that this is a problem, flaw, or failing with equivalent
14 peaker methods. This line of criticism essentially
15 refuses to consider that cost per kilowatt of capacity
16 for a base load unit is greater than the cost per kilowatt
17 of capacity for a peaker, and that it is the energy loads
18 of all classes that contribute to the utility's decision
19 to build (baseload or intermediate) plants that cost more
20 per kW.
21

22 I believe that it is this fundamental, definitional
23 assertion regarding plant costs per kilowatt that is at
24 the root of Mr. Pollock's fuel symmetry argument. In
25 effect, he defines an appropriate share of capital costs

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1 to be expressed only in terms of dollars per kW while
2 ignoring the contribution of energy loads to higher plant
3 costs. I reject this because it ignores the contributions
4 of energy loads, not only those of high load factor
5 customer classes, but also those of low and medium load
6 factor customer classes as well, to the utility's decision
7 to build more expensive production plants than they would
8 otherwise build in order to meet only peak demands.

9
10 Q: Do you believe that the "fuel symmetry adjustment"
11 suggested by Mr. Pollock at pages 40-43 of his testimony
12 is appropriate?

13
14 A: No, for two reasons. First, Mr. Pollock and I disagree as
15 to the proper measure of fuel symmetry. I believe that he
16 considers or defines a fuel symmetry problem to exist when
17 a cost study is employed other than one that classifies
18 all production plant costs as demand-related and in which
19 no adjustment is made to pricing fuel on an average cost
20 basis. In other words, he defines fuel symmetry relative
21 to his preferred cost of service methodology. By
22 contrast, I believe that the appropriate measure of "fuel
23 symmetry" or fuel equity is the relationship between the
24 percentage of baseload plant cost responsibility borne by
25 each rate class and the percentage of inexpensive

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1 baseload-generated electricity each class receives (or is
2 effectively permitted to buy) at the baseload fuel cost.
3 As my direct testimony demonstrates, with one exception--
4 the GSD class in the Refined Equivalent Peaker study--
5 the Basic Equivalent Peaker study provides a closer match
6 between class baseload plant cost responsibility and
7 baseload energy received than the other cost studies
8 available at that time. In my opinion, this demonstrably
9 better match between baseload plant cost responsibility
10 and baseload fuel received is the "proof in the pudding"
11 that defeats the argument as to an alleged fuel symmetry
12 problem with peaker methods.

13
14 Second, the analysis underlying his proposed fuel symmetry
15 adjustment is based on hypothetical peak period energy
16 costs that include hypothetical peaker energy that is more
17 than 100 times Gulf's projected 1990 peaker generation.
18 Mr. Pollock's analysis in Schedule 12 of Exhibit JP-1 is
19 based on hypothetical generation from peaking capacity of
20 330,246 MWh (Schedule 12, page 3 of 4). Gulf's projected
21 peaker generation for 1990 is 211 MWh.

22
23 Q: At page 19, Mr. Pollock asserts that peaker type methods
24 somehow inappropriately "de-average" production plant
25 costs. What is your response to this?

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1

2 A: Peaker methods do not "de-average" plant costs. They
3 express the energy-related portion of production plant
4 costs on an average cents-per-kWh basis rather than on the
5 dollars-per-kW basis that Mr. Pollock, and industrial
6 intervenors generally, advocate. I believe that
7 expressing these energy-related costs on an average
8 cents-per-kWh basis is entirely appropriate because of the
9 energy and hours of run time considerations that led the
10 utility to build baseload units rather than peaking units.

11

12 Q: Mr. Pollock also seems to assert that the alleged "de-
13 averaging" of production plant costs, as he styles it, is
14 inconsistent with collecting fuel and variable operation
15 and maintenance costs on an average per kWh basis. What
16 is your response to this?

17

18 A: Well, because I believe that energy-related production
19 plant costs are appropriately averaged, as it were, over
20 all kilowatt-hours, I see no problem with expressing fuel
21 and operations and maintenance costs in the same way.
22 Both are expressed on an average per-kWh basis because
23 both are driven by energy and hours of use considerations.

24

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1 Applicability of Reservation Charges to Scheduled Maintenance

2 Power Service

3
4 Q: Both Mr. Pollock and Stone Container Corporation's Witness
5 Tom Kisla address a proposal to excuse demands registered
6 by self-generating customers (SGCs) during certain
7 maintenance power outages from paying the ratcheted
8 Reservation Charges applicable under Gulf's Standby
9 Service (SS) rate schedule. What commentary do you have
10 to offer on this proposal?

11
12 A: First, in principle, I believe that a fair case can be
13 made for excusing demands registered during scheduled,
14 usefully coordinated maintenance outages from the
15 Reservation Charge provisions of Gulf's SS rate. This is
16 because if the outages are indeed usefully coordinated,
17 they will presumably occur at times when they have no cost
18 impact on the demand-related production and transmission
19 costs that are the components of Gulf's Reservation
20 Charge.

21
22 However, I do want to make two points regarding this
23 proposal. First, scheduling outages will not enable Gulf
24 to avoid local facilities costs, so if the SGC's power
25 requirements during a scheduled maintenance outage cause

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1 its total standby demand imposed on Gulf to increase, then
2 it cannot properly be excused from paying the additional
3 Local Facilities Charges required by the tariff. (If the
4 Commission implements proper local facilities charges for
5 all demand-metered rate classes in this case, based on
6 maximum customer demand, then any increase in total
7 demand, whether for standby or supplemental service, would
8 properly result in an increase in the customer's demand
9 subject to local facilities charges.)
10

11 Second, the sought-after relief from the Reservation
12 Charge should only be granted (1) if the desired
13 maintenance power is used in hours that do not include a
14 Gulf peak that determines Gulf's IIC payments or revenues,
15 or (2) if the Southern Company operating committee agrees
16 to let Gulf deduct any such maintenance power demands from
17 its registered peaks so as to negate any effect on Gulf's
18 IIC payments or revenues. Assuming useful coordination
19 and timely advance scheduling, I believe that this would
20 be a reasonable request.
21

22 "As-Available" Supplemental Energy Purchases, or "Economic
23 Backup Power" Under Gulf's SE Rate
24

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1 Q: Mr. Pollock and Mr. Kislak also suggest that SGCs be
2 permitted to purchase power from Gulf under the same
3 general terms and conditions as presently apply under
4 Gulf's Supplemental Energy (SE) Rider. What commentary do
5 you have to offer on this proposal?
6

7 A: I do not see anything conceptually wrong with allowing an
8 SGC to take power from a utility during operationally
9 defined off-peak periods, even though the SGC has
10 generating capacity available to serve its load, so long
11 as the rates under which such power service is taken are
12 appropriately designed and administered. First, the rate
13 should properly include (1) a local facilities charge,
14 applicable to the customer's maximum demand, regardless
15 when it occurred, designed to recover distribution costs,
16 and (2) a non-fuel energy charge equal to the class energy
17 unit cost. Second, by Order No. 17568, the Commission
18 approved the SE Rider on the condition that it become a
19 separate rate class in the Company's next rate case.
20 Although I believe they are surmountable, I can foresee
21 some administrative difficulties in dealing with customers
22 taking backup and maintenance power under Rate SS,
23 ordinary supplementary power under Rate LP/LPT or PXT, and
24 "economic backup" power or "as-available" supplemental
25 power under Rate SE. Finally, along these lines, I would

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1 also comment that permitting such service to be taken
2 would require particular diligence by the utility in
3 measuring and monitoring the customer's usage to assure
4 that the customer did not actually take power service
5 under one rate schedule that should properly be billed
6 under a different rate schedule.

7

8 Q: Does this conclude your rebuttal testimony?

9

10 A: Yes, it does.

GULF POWER COMPANY

Comparison of Outage Rates and Availability Factors
for Coal-Fired Baseload and Peaking Technologies

Line	Description	Coal-Fired Baseload Units	Peaking Units		
			Jet Engine Units	Gas Turbine Units	Diesel Units
1	Forced Outage Rate	6.87%	31.55%	53.49%	56.35%
2	Effective Forced Outage Rate	9.73%	37.53%	56.72%	59.90%
3	Availability Factor	82.77%	91.37%	90.92%	95.38%
4	Equivalent Avail- ability Factor	79.72%	85.11%	85.10%	95.09%

SOURCE: NERC Generating Availability Report, 1984-1988, August, 1989.

CERTIFICATE OF SERVICE
Docket No. 891345-EI

I HEREBY CERTIFY that a true copy of the foregoing has been furnished by U.S. Mail*, hand-delivery**, or by facsimile*** to the following parties on this 15th day of May, 1990.

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