

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

**In re: Review of Florida Power
Corporation's Earnings, Including Effects
of Proposed Acquisition of Florida Power
Corporation by Carolina Power & Light**

DOCKET NO. 000824-EI

Submitted for Filing:
February 11, 2002

**REBUTTAL TESTIMONY
OF
WILLIAM C. SLUSSER

ON BEHALF OF
FLORIDA POWER CORPORATION**

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REBUTTAL TESTIMONY OF WILLIAM C. SLUSSER, JR.

1 **Introduction and Background**

2 **Q. Please state your name.**

3 A. My name is William C. Slusser, Jr.

4

5 **Q. Did you submit Direct Testimony in this case on November 15,**
6 **2001?**

7 A. Yes, I did.

8

9 **Q. Have you reviewed the intervenor testimony filed on behalf of the**
10 **Florida Industrial Power Users Group (FIPUG) and Publix Super**
11 **Markets, Inc. (Publix)?**

12 A. Yes. My review focused on the testimony of FIPUG witness Jeffry
13 Pollock and, to a more limited extent, the testimony of Publix witnesses
14 Sheree L. Brown and Theodore J. Kury.

15

16 **PURPOSE AND ORGANIZATION OF TESTIMONY**

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

18 A. The purpose of my rebuttal testimony is to respond to certain positions
19 and arguments presented in the testimony of intervenor witnesses
20 Pollock, Brown and Kury regarding (a) the methodology for allocating
21 production capacity costs, (b) the use and calculation of rate credits to
22 recognize the value of interruptible service, (c) the jurisdictional
23 allocation of power marketing expense, and (d) the design of general

1 service rates. My testimony is organized sequentially into these four
2 categories.

3

4 **PRODUCTION COST ALLOCATION METHODOLOGY**

5 **Q. Do you have any general observations to offer after reviewing the**
6 **testimony of witnesses Pollock and Brown regarding the**
7 **methodology for production capacity cost allocation?**

8 **A. Yes, I would offer the following observations about the intervenor**
9 **witnesses' testimony on this issue:**

10

11 1. The witnesses, while differing as to extent, acknowledge that
12 capital substitution principles which recognize energy utilization
13 play a significant role in determining the type of, and capital
14 investment in, production plant Florida Power has built.

15

16 2. Witness Pollock's main criticism of Florida Power's Equivalent
17 Peaker Method (EPM), because it recognizes all energy usage
18 rather than usage only up to an economic "break-even point",
19 stems from his reliance on marginal costing practices, instead of
20 the average costing practices this Commission normally requires
21 for ratemaking purposes.

22

23 3. Overall, the intervenor witnesses provide no persuasive rationale
24 why the previous production cost allocation methodology they

1 advocate is more appropriate than the EPM allocation methodology
2 recommended by Florida Power.

3

4 **Q. Do you find it surprising that the intervenor witnesses who criticize**
5 **your capital substitution-based EPM cost allocation methodology**
6 **nonetheless acknowledge that capital substitution principles play a**
7 **key role in today's generation planning process?**

8 A. No, I would find it surprising if they did not. While these witnesses have
9 the particular interests of their clients to advocate, they are
10 knowledgeable individuals in the subject matter of their testimony, and I
11 would certainly expect them to recognize a principle like capital
12 substitution that has become common place in today's complex and
13 sophisticated generation planning process. The difference we have is
14 that I believe the key role of capital substitution in the planning process
15 should be given comparable recognition when allocating the generation
16 costs that result from this process, while the intervenor witnesses
17 apparently believe the previous allocation methodology is better suited to
18 their clients' interests.

19

20 The allocation methodology previously used in setting the rates for
21 Florida Power's customer classes has its origins prior to the late 1960s,
22 since which time the vast majority of the Company's current generating
23 resources have been built. Before this time, the primary causation for the
24 costs of building new plants was the need to meet peak loads. Cost
25 allocation methods that relied heavily or exclusively on monthly peak

1 load responsibility were appropriate. Generation planning was much
2 simpler: A utility had only a conventional steam plant design to consider;
3 fuel and construction costs were relatively inexpensive; there was
4 generally a reliance on one type of fuel; and siting and environmental
5 regulations were much less stringent than today.

6
7 By the 1970s, the economic environment for utilities had changed
8 due to the rapid growth in demand for electricity, inflation, high fuel
9 costs, and high construction costs. In addition to building larger steam
10 plants to take advantage of greater efficiencies and economies of scale,
11 new generating options became available, such as combustion turbine
12 peaking units, combined cycle technology, and a variety of capacity
13 possibilities through purchased power. Cost allocation methodologies
14 employed today need to recognize not just the obligation to meet peak
15 load, but the type of generating unit selected for cost-effectiveness
16 reasons. This requires recognition of the present day reality that cost
17 causation is driven by both capacity and energy requirements. The
18 production cost allocation methodology proposed by Florida Power in
19 this case is a modest attempt to meet this objective.

20
21 **Q. Mr. Pollock claims Florida Power's EPM allocation methodology is a**
22 **flawed application of capital substitution theory because it**
23 **allocates capital substitution costs to all energy usage, rather than**
24 **energy usage only up to an economic "break-even point" between**
25 **the operation of a peaker and a base load unit. Do you agree?**

1 A. Only to a point. I can agree with Mr. Pollock that the EPM may not fully
2 reflect the marginal costing theory underlying the utility's generation
3 decision-making. However, I disagree that EPM does not represent an
4 equitable and appropriate method for allocating average, embedded
5 costs to rate classes.

6
7 First, I agree, as described very well by Mr. Pollock, that the capital
8 substitution investment to build a base load unit instead of a peaking unit
9 is justified by the usage up to the economic break-even point between
10 the two types of units. Beyond this economic break-even point, energy
11 utilization is no longer a factor considered by the utility in the decision to
12 build a base load unit. This analysis, however, although accurate,
13 represents a marginal cost perspective, *i.e.*, the marginal cost of usage
14 greater than the break-even point requires no additional investment. The
15 problem with this perspective is that, for the most part, utility ratemaking
16 is based on average costing practices in order to avoid the inequities and
17 practical difficulties that can result from the use of marginal costing when
18 setting rates.

19
20 The following hypothetical example illustrates the problem with Mr.
21 Pollock's break-even marginal costing theory in a ratemaking context.
22 Assume the construction of a new toll bridge could be justified by a
23 usage of at least 100 cars per day. If the bridge were built, under Mr.
24 Pollock's marginal costing theory, a toll would be assessed to the first
25 100 cars using the bridge; the 101st car and those thereafter would travel

1 the bridge for free. Under average costing practices, all usage that
2 benefits from a capital substitution investment would contribute equally
3 to its cost. In the case of the hypothetical toll bridge, equity dictates that
4 all users of the bridge should be assessed the same toll charge, since all
5 bridge goers benefit equally from their use of the bridge.

6

7 Second, Mr. Pollock's "break-even point" criticism of Florida
8 Power's EPM suggests that too much production cost is allocated on the
9 basis of energy. In actuality, the opposite is true. The EPM proposed by
10 Florida Power in this case allocates 25% of its production costs on an
11 energy basis. However, the Company's actual production investment
12 above the amount that would have existed if capacity had been built only
13 to meet peak load (*i.e.*, peaking capacity) would easily justify allocating
14 well over 50% of its total production investment on an energy basis.
15 Moreover, allocating even this higher level of production costs based on
16 energy usage would still not be excessive, since it would amount to only
17 about 25% of the fuel cost savings achieved by the additional
18 investment.

19

20 While Florida Power's proposed EPM is only a modest step in
21 recognizing the important role capital substitution plays in the selection
22 of the Company's production capacity, I consider it to be a significant
23 and necessary improvement over the inadequate recognition given by
24 the previous allocation methodology.

25

1 **Q. Witness Pollock claims the Commission rejected a proposed EPM**
2 **in a 1990 Gulf Power rate case? Do you consider that case to hold**
3 **any significance with respect to the EPM proposal put forward by**
4 **Florida Power in this case?**

5 A. No, I do not. I recently reviewed the Gulf Power order cited by Mr.
6 Pollock (Order No. 23573 in Docket No. 891345-EI) and was surprised to
7 find that the short quotation in his testimony was, in fact, the order's
8 *entire* discussion of the EPM proposed in that case. That single
9 sentence hardly provides the kind of reasoned analysis that should be
10 given great weight twelve years later.

11

12 Moreover, unlike this case, the EPM in the Gulf Power case was
13 not designed by the utility based on the characteristics of its generating
14 system, but was proposed by the Office of Public Counsel in opposition
15 to the utility's cost allocation methodology. The decision to reject Public
16 Counsel's proposal is even less surprising in light of the rationale the
17 Commission had previously expressed for refusing to deviate from Gulf
18 Power's heavy reliance on monthly peak load costing responsibility,
19 based on its unique situation as a part of the Southern Company
20 operating system. In Docket No. 820150-EU, the Commission stated:

21

22 Because Gulf buys and sells reserve capacity from other
23 Southern operating companies based on the level of its monthly
24 reserve margins, which, in turn, are the result of the size of Gulf's
25 monthly system peaks, the size of all monthly peaks have an

1 important impact on the cost of serving Gulf's retail customers. Thus
2 the majority of production costs should be allocated on the basis of
3 each class' contribution to all of the monthly peaks.
4

5 Gulf Power's unique relationship with the Southern system was
6 described by the Commission again in the final order from Gulf's next
7 rate case (Docket No. 840086-EI). To the extent the cursory treatment
8 of the EPM in the 1990 Gulf Power case should otherwise be given any
9 weight at all, the Commission's express recognition of Gulf Power's
10 unique circumstances clearly distinguishes that case from the present
11 Florida Power case.
12

13 **Q. Mr. Pollock disagrees with the Company that production**
14 **investment costs related to environmental concerns are generally a**
15 **function of energy usage. Does his position have merit?**

16 A. None that I can discern. I find myself baffled by Mr. Pollock's statement
17 that Florida Power only incurred these investments in air and water
18 pollution control facilities simply as a prerequisite to operate. In point of
19 fact, much of Florida Power's environmental-related investments were
20 made years after the plant in question was constructed and were
21 required to satisfy air and water pollution regulations that had been
22 triggered due to extended hours of operation at these plants. The more
23 significant of these investments include (1) cooling towers at Crystal
24 River Units 1 & 2, (2) continuous emission monitoring equipment at the
25 DeBary and Intercession City plants, (3) air tempering coils at the

1 Anclothe plant, and (4) low NOx burners at Crystal River Unit 2. Contrary
2 to Mr. Pollock's unfounded allegation, it is clear that the majority of
3 Florida Power's environmental-related costs are a function of the plants'
4 actual or expected hours of operation, not simply their design capacity.

5

6 **Q. Intervenor witness Brown argues that the Commission should not**
7 **change from the 12 CP & 1/13 AD cost allocation methodology in**
8 **this proceeding without changing the corresponding allocation of**
9 **fuel costs. Do you agree?**

10 A. No, I do not. As explained earlier, Florida Power believes it to be a more
11 equitable and administratively efficient practice to establish rates on the
12 basis of average costs. No one disputes the fact that all kWh's of energy
13 are not produced at the same fuel cost, even within the same rate class,
14 and some attempts have actually been made to recognize this, such as
15 by differentiating costs seasonally through the former practice of setting
16 two fuel adjustment charges each year, and by differentiating daily cost
17 variations through the application of time-of-use rates. This does not
18 mean, however, every cost difference, no matter how minor, should be
19 recognized in setting rates, since doing so would severely compromise
20 the equitable and administrative advantages of average cost rates.

21

22 This is particularly true in the case of the cost difference identified
23 by Ms. Brown, who suggests that her relatively high load factor client
24 should bear less fuel cost responsibility for peaking generation. I don't
25 mean to sound flippant, but when the characteristics of Florida Power's

1 generating system are considered, her suggestion is simply not worth the
2 trouble. Over 95% of Florida Power's system requirements are
3 generated from base/intermediate generation, with less than 5% from
4 peaking units. This small contribution of peaking energy results in
5 average fuel costs being only slightly higher than the fuel costs of
6 base/intermediate generation. Since all the Company's rate classes
7 exhibit this overwhelming dependence on base/intermediate generation
8 to service their load, the additional refinement to the recovery of fuel
9 costs that Ms. Brown suggests would accomplish extremely little, on
10 either an overall or customer class basis, while significantly complicating
11 the fuel cost recovery process.

12
13 **Interruptible Service Rate Credits**

14 **Q. Mr. Pollock contends that Florida Power did not adequately support**
15 **its cost-effectiveness calculations for the Interruptible Service rate**
16 **credit. What is your response to this contention?**

17 **A.** I disagree with Mr. Pollock; Florida Power's cost-effectiveness
18 calculations for the IS credit have been well supported. The Company
19 prepared its calculations using the DSView module of the Strategist
20 planning model (previously called Proscreen), which has been used to
21 perform all of its DSM program cost-effectiveness calculations since
22 1993. Over this period, the model has been utilized by Florida Power to
23 present its calculations in numerous DSM filings before the Commission
24 and has been accepted by Staff and intervenors, including FIPUG, in
25 these proceedings. The quality and quantity of information provided in

1 this proceeding is consistent with the information provided without
2 objection in these prior proceedings. This information includes the
3 model's output reports provided at the outset in the MFRs that I sponsor,
4 which show the year-by-year benefit and cost components for each of
5 the Commission's three prescribed cost-effectiveness tests, as well as
6 the net present value calculations used to derive the benefit-to-cost
7 ratios. Through discovery, Florida Power provided additional
8 information, including an input report of all assumptions associated with
9 each of the avoidable generation units used in the model, which I
10 personally provided to FIPUG at my deposition.

11
12 **Q. Have you reviewed Mr. Pollock's claim that Florida Power's cost-**
13 **effectiveness calculations contain several flaws?**

14 A. Yes. Mr. Pollock described what he considered to be four flaws in
15 Florida Power's cost-effective calculations for the Interruptible Service
16 credit, which were reviewed with the model's vendor, NewEnergy
17 Associates. We concluded that two of these items did, in fact, represent
18 errors in the modeling process. The first error concerns the failure to
19 model a reserve margin requirement when determining the amount of
20 deferred capacity that results from a given amount of interruptible load.
21 The second error relates to a timing mismatch in the first year of the
22 analysis, where the model included the costs of interruptible credits but
23 did not show any avoided generation capacity benefit. After correcting
24 these errors the model was re-run to calculate a corrected cost-effective
25 credit for Interruptible Service, which is \$3.08 per coincident kW of

1 interruptible load. My Exhibit No. _____ (WCS-5) provides the model
2 output reports and input assumptions supporting the calculation of the
3 corrected credit.

4
5 The remaining two items are not actually flaws in the sense of the
6 modeling errors just described, but are simply Mr. Pollock's opinion that
7 two of the assumptions would have been "more appropriate" if modeled
8 differently. After reviewing the changes suggested by Mr. Pollock, we
9 concluded that they lacked sufficient merit to warrant further
10 consideration.

11
12 The first of these items is Mr. Pollock's opinion that a range of
13 credits should be calculated by modeling a range of potential fuel costs
14 associated with each avoided generating unit. Although his testimony
15 gives no hint of what would be done with this range of credits, the
16 answer is almost certain to be problematic given the Company's need to
17 establish a single credit that results in a single rate, not a range of rates,
18 for its interruptible tariff.

19
20 The other item relates to Mr. Pollock's opinion that "the model
21 appears to assume that FPC would have to operate less fuel-efficient
22 generating units" if the next planned unit addition is not built, an
23 assumption he describes as "overly pessimistic". In the first place, the
24 model doesn't assume the results of its run, it calculates them.
25 Secondly, it is beyond me why Mr. Pollock chose to explain the model's

1 results by ascribing negative human behavior to it and ignore the most
2 obvious, straight-forward explanation. If a utility's next planned unit is
3 more fuel-efficient than the average of its existing units, as one would
4 normally expect to be the case, the model would naturally show an
5 increased use of less fuel-efficient generation without this planned unit.
6 In other words, the model would be able to simulate the operation of a
7 more fuel-efficient generating system with the next planned unit included
8 in the run than with it excluded. I see nothing pessimistic about this
9 modeling result.

10

11 **Q. In his answer to the question on page 26 of his testimony, Mr.**
12 **Pollock accepts as true the question's premise that "FPC asserts**
13 **that a benefit-to-cost ratio of 1.2 should be applied to guard against**
14 **the risk that actual interruptions may prove to be infrequent." Is**
15 **this the reason Florida Power has used a 1.2 benefit-to-cost ratio to**
16 **calculate a cost effective Interruptible Service credit?**

17 **A.** Not at all. While Florida Power supports this cost-effectiveness
18 standard, its use in calculating the IS credit is not a matter of Company
19 discretion. Commission Order No. PSC-96-0842-FOF-EI, issued July 1,
20 1996 in Docket No. 950645-EI, made it clear that Florida Power's
21 Interruptible Service and Curtailable Service programs must meet a cost-
22 effectiveness ratio of 1.2. More to the point, the reason for requiring this
23 cost-effectiveness margin has nothing to do with the possibility of
24 infrequent interruptions; it was adopted simply to provide the Company's
25 ratepayers with a degree of protection from unfavorable variances in

1 actual benefits and costs that may be realized over time, compared to
2 the benefits and costs simulated in the projected cost-effectiveness
3 calculations.

4
5 I have no idea why Mr. Pollock believes that Florida Power has
6 justified its use of a 1.2 benefit-to-cost ratio on the need to guard against
7 the risk that actual interruptions may prove to be infrequent. I completely
8 agree with Mr. Pollock that the value of interruptible load is its
9 "interruptibility", irrespective of whether it is actually interrupted. This
10 philosophy has been consistently demonstrated by the Company in the
11 design of its interruptible and curtailable rates, where credit payments
12 have always been based on the amount of interruptible load, not on the
13 frequency of interruptions.

14
15 **Q. Mr. Pollock also expressed disagreement with Florida Power's IS-2**
16 **rate design, which employs a billing load factor as a proxy for a**
17 **coincidence factor in applying the credit. Why has Florida Power**
18 **included this feature in its IS-2 rate design?**

19 **A.** To begin with, this is not a new rate design feature. It is the
20 continuation of a feature that was reviewed by the Commission in Docket
21 No. 950645-EI, when Florida Power established its new, cost-effective
22 IS-2 rate offering for prospective interruptible customers commencing
23 service after June 11, 1996. The Commission specifically addressed
24 and approved this rate design feature in its final Order No. PSC-96-
25 0842-FOF-EI. The Company proposes to continue this rate feature for

1 the same reason it was initially proposed; the load factor proxy is
2 theoretically more accurate and more equitable than a fixed credit based
3 solely on maximum demand. It is also an administratively expedient
4 method of estimating a customer's coincident demand for billing
5 purposes. Mr. Pollock's suggestion of quantifying the customer's load on
6 the day of, the day before, and the day after an interruption would
7 impose highly burdensome analysis requirements and billing delays,
8 without any assurance of any meaningful improvement in the estimation
9 of coincident demand.

10

11 **Q. Mr. Pollock also proposes that Florida Power reduce the IS-2 tariff's**
12 **notice period for transferring to firm service from three years to two**
13 **years. Does Florida Power believe a two-year notice period is**
14 **sufficient?**

15 **A.** Although Florida Power could build a combustion turbine or possibly
16 arrange an off-system firm purchase in less than two years, this may not
17 be the lowest cost solution to satisfying the additional system firm load
18 requirement created by a transfer of interruptible load to firm service.
19 The Company needs at least three years notice to properly reflect a load
20 change in its generation facilities plan and determine the additional
21 resources required on a "least cost system impact" basis.

22

23 **Q. Mr. Pollock recommends that if the Company's other interruptible**
24 **rate proposals are accepted, the IS-1 rate should not be completely**
25 **closed, as the Company also proposes, but instead, current IS-1**

1 **customers should be grandfathered under the rate for a period of**
2 **two years in order to allow them to explore other options “before**
3 **imposing a dramatic and unexpected rate increase on them.” What**
4 **is Florida Power's response to this recommendation?**

5 A. Florida Power cannot support Mr. Pollock's recommendation. Although
6 Florida Power appreciates the significant increase current IS-1
7 customers would experience when transferred to the new IS-2 rate, this
8 proposed action is the natural consequence of widely known
9 Commission policies and prior actions, and should have been expected
10 by the IS-1 customers for a number of years.

11
12 The Commission has recognized Florida Power's Interruptible
13 Service as a Demand-Side Management (DSM) program since 1992. As
14 an approved DSM program, the Commission allows the cost of credits
15 paid to Interruptible Service customers to be recovered through the
16 Energy Conservation Cost Recovery clause. To obtain DSM program
17 approval under the Commission's cost effectiveness criterion, Florida
18 Power must demonstrate through prescribed calculations that the credits
19 for interruptible customers have been established at a cost effective
20 level.

21
22 In 1994, Docket No. 941171-EG was opened to determine whether
23 utility DSM programs met the Commission's approval criteria, including
24 the cost-effectiveness criterion. The Company's analysis at that time
25 had showed that both the Interruptible and Curtailable Service programs

1 were no longer cost-effective. The Commission then opened Docket No.
2 950645-EI to consider the treatment of these two programs. In that
3 proceeding, the Commission approved a stipulation between FIPUG and
4 Florida Power that closed the IS-1 and CS-1 rates to new customers
5 effective April 16, 1996, and deferred the issues pertaining to the
6 appropriate rate treatment of existing IS-1 and CS-1 customers until
7 Florida Power's next general rate case. Also in that proceeding, the
8 Commission approved the offering of new cost-effective rates, IS-2 and
9 CS-2, applicable to customers commencing service after the new rates'
10 effective date of June 11, 1996. Thus, the IS-1 and CS-1 customers
11 have known, or should have known, since 1996 that their rate status was
12 temporary and at risk, and that their credits would likely be revised
13 downward to cost-effective levels at the time of the Company's next
14 general rate case, which, of course, is this now pending case.

15
16 **Jurisdictional Allocation Of Power Marketing Expense**

17 **Q. Publix witness Brown notes in her testimony that Florida Power has**
18 **allocated to its retail business all of its budgeted power marketing**
19 **expenses in the amount of \$4,897,000 for the 2002 test period. Is**
20 **this a correct jurisdictional cost allocation of the Company's power**
21 **marketing expenses?**

22 **A. No.** The Company acknowledges that this jurisdictional allocation, or
23 lack thereof, was in error and thanks Ms. Brown for her attention to detail
24 that brought this error to light. This expense should have been assigned
25 and allocated in the following manner: (a) \$2,692,000 is directly

1 assignable to the FERC jurisdictional business, and (b) \$2,205,000 is
2 allocable 2.354% to FERC jurisdictional business and 97.646% to FPSC
3 jurisdictional business.

4

5 **GENERAL SERVICE RATE DESIGN**

6 **Q. Publix witness Kury claims Florida Power's General Service**
7 **Demand (GSD) rates do not recognize the value of high load factor**
8 **customers to the Florida Power system. Do you agree?**

9 A. No, I do not. To the contrary, Florida Power's overall general service
10 rate structure provides increasingly lower effective rates as a customer's
11 load factor increases. First, any general service customer using more
12 than 24,000 kWh's annually will realize lower billings under the
13 Company's demand rates compared to its non-demand rates if the
14 customer exceeds a 22% monthly load factor. Second, billing records
15 show that those customers having load factors in the order of 50% or
16 more generally obtain even lower effective rates by electing service
17 under the Company's optional time-of-use demand rate. Third, any
18 customer that exceeds a 72% monthly load factor is assured a lower
19 effective rate under this time-of-use demand rate. Finally, the optional
20 time-of-use demand rate provides typical, good load factor customers a
21 reduction of at least 0.599 cents per kWh (or about 11%) for additional
22 energy usage compared to other general service non-demand or
23 standard demand rates.

24

1 To demonstrate this latter point, I have prepared Exhibit
2 _____(WCS-6), which shows general service customer billings at
3 present rates on page 1 and at proposed rates on page 2. The exhibit
4 illustrates the calculation of total monthly billings for customer load
5 factors varying in increments of 5% up to 100% under Florida Power's
6 four general service rate schedules: GS Non-Demand, Standard Rate
7 (GS-1); GS Non-Demand, Optional TOU Rate (GST-1); GS Demand,
8 Standard Rate (GSD-1); and GS Demand, Optional TOU Rate (GSDT-
9 1). A total monthly billing is calculated for each rate schedule and also
10 as an effective rate per kWh. The charge for an additional kWh at each
11 load factor increment is also calculated and shown in the exhibit's last
12 column. The exhibit shows that customers having the characteristics of
13 Publix (75% load factor) can purchase additional energy under the
14 proposed GSDT-1 rate at 4.914 cents per kWh, compared to 5.513
15 cents per kWh under the proposed GSD-1 rate, 6.565 cents per kWh
16 under the proposed GST-1 rate, and 8.010 cents per kWh under the
17 proposed GS-1 rate. This demonstrates that Florida Power's GSDT-1
18 rate provides high load factor customers significantly greater price
19 incentive to improve load factor compared to the other general service
20 rates.

21
22 **Q. Mr. Kury expresses his concern over a two-part Real Time Pricing**
23 **(RTP) rate design the Company is currently studying, and**
24 **advocates an RTP rate similar to one offered by Gulf Power that**

1 **reflects actual marginal energy costs. Do you have any comments**
2 **regarding Florida Power's design of a possible RTP rate?**

3 A. Yes. I have several comments. First, Florida Power has not proposed
4 an RTP rate to take issue with in this proceeding. Second, I find it
5 interesting to note that Florida Power did, in fact, offer a one-part RTP
6 rate in 1996 that was very similar in design to the Gulf rate that Mr. Kury
7 advocates. After two years, during which not a single customer had
8 chosen to take service under this offering, the rate was withdrawn for
9 lack of customer interest. Third, Florida Power continues to monitor
10 innovative rate offerings of other utilities and is evaluating the design and
11 experience of a number of utilities that have two-part RTP rates,
12 including Florida Power & Light, Georgia Power, and Carolina Power &
13 Light. Fourth, Mr. Kury is critical of a two-part rate design that employs a
14 customer baseline load pattern because he claims a customer like Publix
15 does not have the capability to alter its load, other than by the addition of
16 new stores. This is problematic. If a customer cannot change its
17 baseline load pattern by shifting usage from peak or high cost hours to
18 off-peak or low cost hours, there is obviously no potential for utility cost
19 savings with which to justify the offering of such a rate in the first place.
20 Finally, Florida Power is receptive to discussions with its customers or
21 their consultants regarding new or improved rate designs. Of course, as
22 most larger customers understand, Florida Power does not have
23 authority to implement a new or revised rate design; before
24 implementation can occur the rate design must first be filed with this
25 Commission for approval, which also provides interested parties an

1 opportunity to comment on its appropriateness during the Commission's
2 review process.

3

4 **Q. Does this conclude your rebuttal testimony?**

5 A. Yes, it does.

IC/CS Cost-Effectiveness Results -- All Existing IS/CS	
	RIM=1.2
PARTICIPANT INCENTIVE (ANNUAL \$)	\$10,861,369
Coincident Annual Peak kW Load Reduction	313.19
PARTICIPANT INCENTIVE (\$/KW-MONTH) (At the Generator)	\$2.89
Factor to Convert Generator kW to Meter kW	0.94
PARTICIPANT INCENTIVE (\$/KW-MONTH) (At the Meter)	\$3.08

Revised

02/07/02

RATE IMPACT MEASURE TEST - WITH INCENTIVES SET TO RESULT IN A RIM OF 1.20

PROGRAM: INTERRUPTIBLE/CURTAILABLE

YEAR	BENEFITS					COSTS							(13) NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) TOTAL FUEL & O&M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
	2001	291	0	10,087	0	10,378	0	0	0	75	10,861	351	
2002	951	0	10,303	0	11,254	0	0	0	75	10,861	230	11,166	88
2003	616	0	10,519	0	11,136	0	0	0	75	10,861	268	11,204	-68
2004	1,166	0	11,288	0	12,454	0	0	0	75	10,861	102	11,039	1,416
2005	1,307	0	11,497	0	12,803	0	0	0	75	10,861	104	11,040	1,763
2006	0	0	15,400	0	15,400	12,258	0	0	75	10,861	146	23,341	-7,941
2007	0	0	15,724	0	15,724	13,217	0	0	75	10,861	204	24,357	-8,633
2008	0	0	17,541	0	17,541	12,710	0	0	75	10,861	106	23,752	-6,210
2009	0	0	17,783	0	17,783	11,459	0	0	75	10,861	212	22,607	-4,824
2010	0	0	16,735	0	16,735	1,568	0	0	75	10,861	108	12,613	4,122
2011	2,705	0	15,938	0	18,643	0	0	0	75	10,861	112	11,048	7,595
2012	3,142	0	15,867	0	19,010	0	0	0	75	10,861	111	11,048	7,962
2013	3,222	0	16,201	0	19,423	0	0	0	75	10,861	111	11,048	8,375
2014	3,507	0	16,541	0	20,048	0	0	0	75	10,861	151	11,087	8,960
2015	3,594	0	16,888	0	20,482	0	0	0	75	10,861	203	11,139	9,343
2016	3,761	0	17,243	0	21,004	0	0	0	75	10,861	203	11,139	9,865
2017	3,235	0	17,605	0	20,840	0	0	0	75	10,861	203	11,139	9,701
2018	3,394	0	17,975	0	21,368	0	0	0	75	10,861	203	11,139	10,229
2019	3,429	0	18,352	0	21,781	0	0	0	75	10,861	203	11,139	10,642
2020	3,737	0	18,738	0	22,474	0	0	0	75	10,861	203	11,139	11,335
2021	3,267	0	19,131	0	22,398	0	0	0	75	10,861	203	11,139	11,259
2022	3,323	0	19,533	0	22,855	0	0	0	75	10,861	203	11,139	11,716
2023	3,948	0	19,943	0	23,891	0	0	0	75	10,861	203	11,139	12,752
2024	3,994	0	20,362	0	24,355	0	0	0	75	10,861	203	11,139	13,216
2025	4,325	0	20,789	0	25,114	0	0	0	75	10,861	253	11,189	13,925
2026	4,353	0	21,226	0	25,579	0	0	0	75	10,861	253	11,189	14,390
2027	5,961	0	21,672	0	27,632	0	0	0	75	10,861	165	11,101	16,531
2028	5,462	0	22,127	0	27,589	0	0	0	75	10,861	165	11,102	16,487
2029	6,185	0	22,591	0	28,776	0	0	0	75	10,861	168	11,105	17,671
2030	6,031	0	23,066	0	29,096	0	0	0	75	10,861	227	11,164	17,933
NOMINAL	84,904	0	518,664	0	603,568	51,212	0	0	2,250	325,841	5,574	384,876	218,692
NPV	18,301	0	163,289	0	181,590	28,896	0	0	825	119,535	2,068	151,325	30,265

UTILITY DISCOUNT RATE: 9.22%

BENEFIT/COST RATIO: 1.20

PARTICIPANT TEST - WITH INCENTIVES SET TO RESULT IN A RIM OF 1.20

PROGRAM: INTERRUPTIBLE/CURTAILABLE

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
2001	351	10,861	0	11,212	0	0	0	11,212
2002	230	10,861	0	11,091	0	0	0	11,091
2003	268	10,861	0	11,129	0	0	0	11,129
2004	102	10,861	0	10,964	0	0	0	10,964
2005	104	10,861	0	10,965	0	0	0	10,965
2006	146	10,861	0	11,008	0	0	0	11,008
2007	204	10,861	0	11,065	0	0	0	11,065
2008	106	10,861	0	10,967	0	0	0	10,967
2009	212	10,861	0	11,073	0	0	0	11,073
2010	108	10,861	0	10,970	0	0	0	10,970
2011	112	10,861	0	10,973	0	0	0	10,973
2012	111	10,861	0	10,973	0	0	0	10,973
2013	111	10,861	0	10,973	0	0	0	10,973
2014	151	10,861	0	11,012	0	0	0	11,012
2015	203	10,861	0	11,064	0	0	0	11,064
2016	203	10,861	0	11,064	0	0	0	11,064
2017	203	10,861	0	11,064	0	0	0	11,064
2018	203	10,861	0	11,064	0	0	0	11,064
2019	203	10,861	0	11,064	0	0	0	11,064
2020	203	10,861	0	11,064	0	0	0	11,064
2021	203	10,861	0	11,064	0	0	0	11,064
2022	203	10,861	0	11,064	0	0	0	11,064
2023	203	10,861	0	11,064	0	0	0	11,064
2024	203	10,861	0	11,064	0	0	0	11,064
2025	253	10,861	0	11,114	0	0	0	11,114
2026	253	10,861	0	11,114	0	0	0	11,114
2027	165	10,861	0	11,026	0	0	0	11,026
2028	165	10,861	0	11,027	0	0	0	11,027
2029	168	10,861	0	11,030	0	0	0	11,030
2030	227	10,861	0	11,089	0	0	0	11,089
NOMINAL	5,574	325,841	0	331,415	0	0	0	331,415
NPV	2,068	119,535	0	121,604	0	0	0	121,604

UTILITY DISCOUNT RATE: 9.22%
 BENEFIT/COST RATIO: 9999

TOTAL RESOURCE COST TEST

PROGRAM: INTERRUPTIBLE/CURTAILABLE

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	TOTAL FUEL & O&M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	OTHER PARTICIPANT BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL FUEL & O&M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	TOTAL COSTS \$(000)	
2001	291	0	10,087	0	10,378	0	0	0	0	75	75	10,303
2002	951	0	10,303	0	11,254	0	0	0	0	75	75	11,179
2003	616	0	10,519	0	11,136	0	0	0	0	75	75	11,061
2004	1,166	0	11,288	0	12,454	0	0	0	0	75	75	12,379
2005	1,307	0	11,497	0	12,803	0	0	0	0	75	75	12,728
2006	0	0	15,400	0	15,400	0	12,258	0	0	75	12,333	3,067
2007	0	0	15,724	0	15,724	0	13,217	0	0	75	13,292	2,432
2008	0	0	17,541	0	17,541	0	12,710	0	0	75	12,785	4,757
2009	0	0	17,783	0	17,783	0	11,459	0	0	75	11,534	6,249
2010	0	0	16,735	0	16,735	0	1,568	0	0	75	1,643	15,092
2011	2,705	0	15,938	0	18,643	0	0	0	0	75	75	18,568
2012	3,142	0	15,867	0	19,010	0	0	0	0	75	75	18,935
2013	3,222	0	16,201	0	19,423	0	0	0	0	75	75	19,348
2014	3,507	0	16,541	0	20,048	0	0	0	0	75	75	19,973
2015	3,594	0	16,888	0	20,482	0	0	0	0	75	75	20,407
2016	3,761	0	17,243	0	21,004	0	0	0	0	75	75	20,929
2017	3,235	0	17,605	0	20,840	0	0	0	0	75	75	20,765
2018	3,394	0	17,975	0	21,368	0	0	0	0	75	75	21,293
2019	3,429	0	18,352	0	21,781	0	0	0	0	75	75	21,706
2020	3,737	0	18,738	0	22,474	0	0	0	0	75	75	22,399
2021	3,267	0	19,131	0	22,398	0	0	0	0	75	75	22,323
2022	3,323	0	19,533	0	22,855	0	0	0	0	75	75	22,780
2023	3,948	0	19,943	0	23,891	0	0	0	0	75	75	23,816
2024	3,994	0	20,362	0	24,355	0	0	0	0	75	75	24,280
2025	4,325	0	20,789	0	25,114	0	0	0	0	75	75	25,039
2026	4,353	0	21,226	0	25,579	0	0	0	0	75	75	25,504
2027	5,961	0	21,672	0	27,632	0	0	0	0	75	75	27,557
2028	5,462	0	22,127	0	27,589	0	0	0	0	75	75	27,514
2029	6,185	0	22,591	0	28,776	0	0	0	0	75	75	28,701
2030	6,031	0	23,066	0	29,096	0	0	0	0	75	75	29,021
NOMINAL	84,904	0	518,664	0	603,568	0	51,212	0	0	2,250	53,462	550,106
NPV	18,301	0	163,289	0	181,590	0	28,896	0	0	825	29,721	151,869

UTILITY DISCOUNT RATE: 9.22%

BENEFIT/COST RATIO: 6.11

Combined Interruptible/Curtailable Cost-Effectiveness Evaluation Results – For all Existing IS/CS Customers
Results for RIM Ratio = 1.2

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
YEARLY CHANGE IN DEF CAPACITY	-360.17	-360.17	-360.17	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83
Nominal Benefits (Thousands of \$)																	
CAPACITY BENEFIT:	\$10,087.00	\$10,303.06	\$10,519.40	\$11,288.22	\$11,496.61	\$15,400.16	\$15,723.60	\$17,541.30	\$17,783.30	\$16,735.13	\$15,937.50	\$15,867.47	\$16,200.66	\$16,540.82	\$16,888.22	\$17,242.87	\$17,604.98
PRODUCTION COST BENEFIT:	\$291.00	\$951.00	\$616.13	\$1,166.13	\$1,306.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,705.25	\$3,142.38	\$3,222.00	\$3,506.75	\$3,593.88	\$3,760.75	\$3,235.38
REVENUE BENEFIT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL BENEFIT	\$10,378.00	\$11,254.06	\$11,135.53	\$12,454.35	\$12,803.23	\$15,400.16	\$15,723.60	\$17,541.30	\$17,783.30	\$16,735.13	\$18,642.75	\$19,009.84	\$19,422.66	\$20,047.57	\$20,482.09	\$21,003.62	\$20,840.35
Nominal Costs (Thousands of \$)																	
CAPACITY COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PRODUCTION COST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,258.13	\$13,216.75	\$12,709.50	\$11,459.13	\$1,568.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
REVENUE COST	\$350.81	\$229.82	\$267.65	\$102.22	\$103.90	\$146.50	\$203.77	\$105.89	\$211.59	\$108.24	\$111.77	\$111.48	\$111.44	\$150.87	\$202.68	\$202.65	\$202.65
INCENTIVE COST:	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37
MKT PROG COST:	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00
TOTAL COST:	\$11,287.17	\$11,166.19	\$11,204.02	\$11,038.59	\$11,040.27	\$23,340.99	\$24,356.89	\$23,751.76	\$22,607.08	\$12,612.74	\$11,048.14	\$11,047.84	\$11,047.81	\$11,087.24	\$11,139.05	\$11,139.01	\$11,139.02
NOMINAL NET BENEFITS	-\$909.17	\$87.87	-\$68.49	\$1,415.76	\$1,762.96	-\$7,940.83	-\$8,633.29	-\$6,210.47	-\$4,823.78	\$4,122.39	\$7,594.61	\$7,962.00	\$8,374.86	\$8,960.33	\$9,343.04	\$9,864.60	\$9,701.34
UTILITY DISCOUNT RATE	9.22%																
Annual PV Benefits (Thousands of \$)																	
PV CAPACITY BENEFIT:	\$10,087.00	\$9,433.31	\$8,818.34	\$8,664.01	\$8,079.06	\$9,908.65	\$9,262.73	\$9,461.21	\$8,782.03	\$7,566.75	\$6,597.79	\$6,014.28	\$5,622.21	\$5,255.68	\$4,913.08	\$4,592.79	\$4,293.39
PV PRODUCTION COST BENEFIT	\$291.00	\$870.72	\$516.49	\$895.03	\$918.21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,119.92	\$1,191.06	\$1,118.15	\$1,114.23	\$1,045.52	\$1,001.71	\$789.02
PV REVENUE BENEFIT:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PV TOTAL BENEFIT:	\$10,378.00	\$10,304.03	\$9,334.83	\$9,559.04	\$8,997.27	\$9,908.65	\$9,262.73	\$9,461.21	\$8,782.03	\$7,566.75	\$7,717.71	\$7,205.34	\$6,740.35	\$6,369.91	\$5,958.60	\$5,594.50	\$5,082.42
Annual PV Costs (Thousands of \$)																	
PV CAPACITY COST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PV PRODUCTION COST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,887.02	\$7,785.95	\$6,855.09	\$5,658.93	\$709.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PV REVENUE COST:	\$350.81	\$210.42	\$224.37	\$78.46	\$73.02	\$94.26	\$120.04	\$57.12	\$104.49	\$48.94	\$46.27	\$42.25	\$38.67	\$47.94	\$58.96	\$53.98	\$49.42
PV INCENTIVE COST:	\$10,861.37	\$9,944.49	\$9,105.01	\$8,336.39	\$7,632.66	\$6,988.33	\$6,398.40	\$5,858.27	\$5,383.73	\$4,810.94	\$4,496.38	\$4,116.81	\$3,769.28	\$3,451.09	\$3,159.76	\$2,893.02	\$2,648.80
PV MKT PROG COST	\$75.00	\$68.67	\$62.87	\$57.56	\$52.71	\$48.26	\$44.18	\$40.45	\$37.04	\$33.91	\$31.05	\$28.43	\$26.03	\$23.83	\$21.82	\$19.98	\$18.29
PV TOTAL COST:	\$11,287.17	\$10,223.58	\$9,392.25	\$8,472.41	\$7,758.38	\$15,017.87	\$14,348.57	\$12,810.93	\$11,164.19	\$5,702.82	\$4,573.70	\$4,187.49	\$3,833.98	\$3,522.86	\$3,240.54	\$2,966.98	\$2,716.51
PV NET BENEFITS	-\$909.17	\$80.46	-\$57.42	\$1,086.63	\$1,238.89	-\$5,109.22	-\$5,085.84	-\$3,349.72	-\$2,382.16	\$1,863.93	\$3,144.01	\$3,017.85	\$2,906.37	\$2,847.06	\$2,718.05	\$2,627.53	\$2,365.90
Cumulative PV Benefits (Thousands of \$)																	
ACCUM PV CAPACITY BENEFIT	\$10,087.00	\$19,520.31	\$28,338.65	\$37,002.66	\$45,081.72	\$54,990.37	\$64,253.10	\$73,714.31	\$82,496.34	\$90,063.09	\$96,660.88	\$102,675.16	\$108,297.37	\$113,553.04	\$118,466.12	\$123,058.91	\$127,352.31
ACCUM PV PRODUCTION COST BENEFIT:	\$291.00	\$1,161.72	\$1,678.21	\$2,573.24	\$3,491.46	\$3,491.46	\$3,491.46	\$3,491.46	\$3,491.46	\$3,491.46	\$4,611.37	\$5,802.43	\$6,920.58	\$8,034.82	\$9,080.34	\$10,082.05	\$10,871.07
ACCUM PV REVENUE BENEFIT:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACCUM PV TOTAL BENEFIT:	\$10,378.00	\$20,682.03	\$30,016.86	\$39,575.91	\$48,573.18	\$58,481.83	\$67,744.56	\$77,205.76	\$85,987.79	\$93,554.54	\$101,272.25	\$108,477.59	\$115,217.95	\$121,587.86	\$127,546.46	\$133,140.96	\$138,223.38
Cumulative PV Costs (Thousands of \$)																	
ACCUM PV CAPACITY COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACCUM PV PRODUCTION COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,887.02	\$15,672.97	\$22,528.07	\$28,186.99	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02
ACCUM PV REVENUE COST:	\$350.81	\$561.23	\$785.60	\$864.05	\$937.07	\$1,031.33	\$1,151.36	\$1,208.48	\$1,312.97	\$1,361.91	\$1,408.18	\$1,450.44	\$1,489.11	\$1,537.05	\$1,596.01	\$1,649.99	\$1,699.41
ACCUM PV INCENTIVE COST:	\$10,861.37	\$20,805.86	\$29,910.86	\$38,247.25	\$45,879.91	\$52,868.24	\$59,266.65	\$65,124.92	\$70,488.65	\$75,399.59	\$79,895.97	\$84,012.78	\$87,782.06	\$91,233.15	\$94,392.91	\$97,285.94	\$99,934.74
ACCUM PV MKT PROG COST:	\$75.00	\$143.67	\$206.54	\$264.11	\$316.81	\$365.07	\$409.25	\$449.70	\$486.74	\$520.65	\$551.70	\$580.13	\$606.15	\$629.98	\$651.80	\$671.78	\$690.07
ACCUM PV TOTAL COST:	\$11,287.17	\$21,510.75	\$30,903.00	\$39,375.41	\$47,133.79	\$62,151.66	\$76,500.24	\$89,311.16	\$100,475.35	\$106,178.17	\$110,751.87	\$114,939.36	\$118,773.34	\$122,296.20	\$125,536.75	\$128,503.72	\$131,220.24
CUMULATIVE PV NET BENEFITS	-\$909.17	-\$828.72	-\$886.13	\$200.50	\$1,439.39	-\$3,669.83	-\$8,755.68	-\$12,105.40	-\$14,487.56	-\$12,623.63	-\$9,479.62	-\$6,461.77	-\$3,555.40	-\$708.34	\$2,009.71	\$4,637.24	\$7,003.14
ACCUM PV B/C:	0.92	0.96	0.97	1.01	1.03	0.94	0.89	0.86	0.86	0.88	0.91	0.94	0.97	0.99	1.02	1.04	1.05

Combined Interruptible/Curtailable Cost-Effe
Results for RIM Ratio = 1.2

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
YEARLY CHANGE IN DEF CAPACITY	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83	-375.83
Nominal Benefits (Thousands of \$)													
CAPACITY BENEFIT:	\$17,974.70	\$18,352.17	\$18,737.57	\$19,131.03	\$19,532.79	\$19,942.99	\$20,361.76	\$20,789.37	\$21,225.92	\$21,671.71	\$22,126.80	\$22,591.48	\$23,065.91
PRODUCTION COST BENEFIT:	\$3,393.63	\$3,429.25	\$3,736.63	\$3,267.38	\$3,322.63	\$3,948.25	\$3,993.50	\$4,324.50	\$4,353.25	\$5,960.50	\$5,461.75	\$6,184.50	\$6,030.50
REVENUE BENEFIT:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL BENEFIT:	\$21,368.33	\$21,781.42	\$22,474.20	\$22,398.41	\$22,855.41	\$23,891.24	\$24,355.26	\$25,113.87	\$25,579.17	\$27,632.21	\$27,588.55	\$28,775.98	\$29,096.41
Nominal Costs (Thousands of \$)													
CAPACITY COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PRODUCTION COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
REVENUE COST:	\$202.65	\$202.65	\$202.65	\$202.65	\$202.65	\$202.65	\$202.65	\$252.64	\$252.64	\$165.03	\$165.15	\$168.37	\$227.29
INCENTIVE COST:	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37	\$10,861.37
MKT PROG COST:	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00
TOTAL COST:	\$11,139.02	\$11,139.02	\$11,139.02	\$11,139.02	\$11,139.02	\$11,139.02	\$11,139.02	\$11,189.01	\$11,189.01	\$11,101.40	\$11,101.52	\$11,104.74	\$11,163.66
NOMINAL NET BENEFITS:	\$10,229.31	\$10,642.41	\$11,335.18	\$11,259.39	\$11,716.40	\$12,752.23	\$13,216.24	\$13,924.86	\$14,390.16	\$16,530.81	\$16,487.02	\$17,671.25	\$17,932.74
UTILITY DISCOUNT RATE:													
Annual PV Benefits (Thousands of \$)													
PV CAPACITY BENEFIT:	\$4,013.51	\$3,751.88	\$3,507.29	\$3,278.65	\$3,064.92	\$2,865.12	\$2,678.34	\$2,503.74	\$2,340.52	\$2,187.95	\$2,045.31	\$1,911.98	\$1,787.34
PV PRODUCTION COST BENEFIT:	\$757.75	\$701.07	\$699.42	\$659.96	\$621.36	\$567.23	\$525.30	\$520.82	\$480.02	\$601.76	\$504.86	\$523.41	\$467.29
PV REVENUE BENEFIT:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PV TOTAL BENEFIT:	\$4,771.27	\$4,452.94	\$4,206.71	\$3,938.61	\$3,586.27	\$3,432.35	\$3,203.63	\$3,024.55	\$2,820.54	\$2,789.71	\$2,550.18	\$2,435.39	\$2,254.64
Annual PV Costs (Thousands of \$)													
PV CAPACITY COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PV PRODUCTION COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PV REVENUE COST:	\$45.25	\$41.43	\$37.93	\$34.73	\$31.80	\$29.11	\$26.66	\$30.43	\$27.86	\$16.66	\$15.27	\$14.25	\$17.61
PV INCENTIVE COST:	\$2,425.20	\$2,220.47	\$2,033.03	\$1,861.41	\$1,704.27	\$1,560.40	\$1,428.68	\$1,308.07	\$1,197.65	\$1,096.55	\$1,003.98	\$919.23	\$841.63
PV MKT PROG COST:	\$16.75	\$15.33	\$14.04	\$12.85	\$11.77	\$10.77	\$9.87	\$9.03	\$8.27	\$7.57	\$6.93	\$6.35	\$5.81
PV TOTAL COST:	\$2,487.20	\$2,277.23	\$2,085.00	\$1,908.99	\$1,747.84	\$1,600.29	\$1,465.20	\$1,347.53	\$1,233.78	\$1,120.78	\$1,026.18	\$939.63	\$865.05
PV NET BENEFITS:	\$2,284.07	\$2,175.71	\$2,121.72	\$1,929.62	\$1,838.44	\$1,832.05	\$1,738.43	\$1,677.02	\$1,586.76	\$1,668.93	\$1,524.00	\$1,495.57	\$1,389.58
Cumulative PV Benefits (Thousands of \$)													
ACCUM PV CAPACITY BENEFIT:	\$131,365.82	\$135,117.70	\$138,624.99	\$141,903.64	\$144,968.55	\$147,833.67	\$150,512.01	\$153,015.75	\$155,356.27	\$157,544.21	\$159,589.53	\$161,501.51	\$163,288.85
ACCUM PV PRODUCTION COST BENEFIT:	\$11,628.82	\$12,329.89	\$13,029.31	\$13,589.27	\$14,110.63	\$14,677.85	\$15,203.15	\$15,723.96	\$16,203.98	\$16,805.75	\$17,310.61	\$17,834.02	\$18,301.32
ACCUM PV REVENUE BENEFIT:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACCUM PV TOTAL BENEFIT:	\$142,994.64	\$147,447.58	\$151,654.30	\$155,492.90	\$159,079.18	\$162,511.52	\$165,715.16	\$168,739.71	\$171,560.25	\$174,349.96	\$176,900.14	\$179,335.53	\$181,590.17
Cumulative PV Costs (Thousands of \$)													
ACCUM PV CAPACITY COST:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACCUM PV PRODUCTION COST:	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02	\$28,896.02
ACCUM PV REVENUE COST:	\$1,744.66	\$1,786.09	\$1,824.02	\$1,858.75	\$1,890.55	\$1,919.66	\$1,948.31	\$1,976.74	\$2,004.60	\$2,021.26	\$2,036.53	\$2,050.78	\$2,068.99
ACCUM PV INCENTIVE COST:	\$102,359.94	\$104,580.41	\$106,613.44	\$108,474.85	\$110,179.12	\$111,739.52	\$113,168.20	\$114,476.27	\$115,673.92	\$116,770.47	\$117,774.46	\$118,693.69	\$119,535.32
ACCUM PV MKT PROG COST:	\$706.82	\$722.15	\$736.19	\$749.04	\$760.81	\$771.58	\$781.45	\$790.48	\$798.75	\$806.32	\$813.26	\$819.60	\$825.42
ACCUM PV TOTAL COST:	\$133,707.43	\$135,984.67	\$138,069.66	\$139,978.65	\$141,726.49	\$143,326.78	\$144,791.98	\$146,139.52	\$147,373.29	\$148,494.08	\$149,520.26	\$150,460.08	\$151,325.14
CUMULATIVE PV NET BENEFITS:	\$9,287.21	\$11,462.92	\$13,584.63	\$15,514.25	\$17,352.69	\$19,184.74	\$20,923.18	\$22,600.20	\$24,186.96	\$25,855.89	\$27,379.88	\$28,875.45	\$30,265.03
ACCUM PV B/C:	1.07	1.08	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20

AVOIDABLE GENERATION COSTS											
CTF L M P (3 UNITS)			PURCHASE(S) 2001 ONLY								
(1) BASE YEAR				2001							
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT				2001							
(3) WINTER CAPACITY				182	MW						
(4) BASE YEAR AVOIDED GENERATING UNIT COST				290	\$/KW						
(5) GENERATOR COST ESCALATION RATE				0.00	%						
(6) GENERATOR FIXED O&M COST				2.63	\$/KW-YR						
(7) GENERATOR FIXED O&M ESCALATION RATE				0.00	%						
(8) AVOIDED GEN UNIT VARIABLE O&M COSTS				1.168	¢/KWH						
(9) GENERATOR VARIABLE O&M COST ESCALATION RATE				0.00	%						
(10) GENERATOR CAPACITY FACTOR				5	%						
(11) AVOIDED GENERATING UNIT FUEL COST				5.94	¢/KWH						
(12) AVOIDED GEN UNIT FUEL ESCALATION RATE				0.00	%						
CTF L M G (3 UNITS)			COMBUSTION TURBINE(S)			CCM G			COMBINED CYCLE		
(1) BASE YEAR				2001		(1) BASE YEAR				2001	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT				2002		(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT				2008	
(3) WINTER CAPACITY				182	MW	(3) WINTER CAPACITY				366	MW
(4) BASE YEAR AVOIDED GENERATING UNIT COST				290	\$/KW	(4) BASE YEAR AVOIDED GENERATING UNIT COST				400	\$/KW
(5) GENERATOR COST ESCALATION RATE				2.10	%	(5) GENERATOR COST ESCALATION RATE				2.10	%
(6) GENERATOR FIXED O&M COST				2.63	\$/KW-YR	(6) GENERATOR FIXED O&M COST				2.68	\$/KW-YR
(7) GENERATOR FIXED O&M ESCALATION RATE				2.10	%	(7) GENERATOR FIXED O&M ESCALATION RATE				2.10	%
(8) AVOIDED GEN UNIT VARIABLE O&M COSTS				1.168	¢/KWH	(8) AVOIDED GEN UNIT VARIABLE O&M COSTS				0.248	¢/KWH
(9) GENERATOR VARIABLE O&M COST ESCALATION RATE				3.00	%	(9) GENERATOR VARIABLE O&M COST ESCALATION RATE				3.00	%
(10) GENERATOR CAPACITY FACTOR				5	%	(10) GENERATOR CAPACITY FACTOR				50	%
(11) AVOIDED GENERATING UNIT FUEL COST				4.43	¢/KWH	(11) AVOIDED GENERATING UNIT FUEL COST				3.09	¢/KWH
(12) AVOIDED GEN UNIT FUEL ESCALATION RATE				1.00	%	(12) AVOIDED GEN UNIT FUEL ESCALATION RATE				1.00	%
CTF G			COMBUSTION TURBINE			CCM F			COMBINED CYCLE		
(1) BASE YEAR				2001		(1) BASE YEAR				2001	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT				2004		(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT				2009	
(3) WINTER CAPACITY				182	MW	(3) WINTER CAPACITY				579	MW
(4) BASE YEAR AVOIDED GENERATING UNIT COST				290	\$/KW	(4) BASE YEAR AVOIDED GENERATING UNIT COST				338	\$/KW
(5) GENERATOR COST ESCALATION RATE				2.10	%	(5) GENERATOR COST ESCALATION RATE				2.10	%
(6) GENERATOR FIXED O&M COST				2.63	\$/KW-YR	(6) GENERATOR FIXED O&M COST				1.67	\$/KW-YR
(7) GENERATOR FIXED O&M ESCALATION RATE				2.10	%	(7) GENERATOR FIXED O&M ESCALATION RATE				2.10	%
(8) AVOIDED GEN UNIT VARIABLE O&M COSTS				1.168	¢/KWH	(8) AVOIDED GEN UNIT VARIABLE O&M COSTS				0.214	¢/KWH
(9) GENERATOR VARIABLE O&M COST ESCALATION RATE				3.00	%	(9) GENERATOR VARIABLE O&M COST ESCALATION RATE				3.00	%
(10) GENERATOR CAPACITY FACTOR				5	%	(10) GENERATOR CAPACITY FACTOR				50	%
(11) AVOIDED GENERATING UNIT FUEL COST				3.00	¢/KWH	(11) AVOIDED GENERATING UNIT FUEL COST				3.12	¢/KWH
(12) AVOIDED GEN UNIT FUEL ESCALATION RATE				1.00	%	(12) AVOIDED GEN UNIT FUEL ESCALATION RATE				1.00	%
CCM F			COMBINED CYCLE			3CTEA G			COMBUSTION TURBINE(S)		
(1) BASE YEAR				2001		(1) BASE YEAR				2001	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT				2006		(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT				2011	
(3) WINTER CAPACITY				579	MW	(3) WINTER CAPACITY				275	MW
(4) BASE YEAR AVOIDED GENERATING UNIT COST				338	\$/KW	(4) BASE YEAR AVOIDED GENERATING UNIT COST				325	\$/KW
(5) GENERATOR COST ESCALATION RATE				2.10	%	(5) GENERATOR COST ESCALATION RATE				2.10	%
(6) GENERATOR FIXED O&M COST				1.67	\$/KW-YR	(6) GENERATOR FIXED O&M COST				5.30	\$/KW-YR
(7) GENERATOR FIXED O&M ESCALATION RATE				2.10	%	(7) GENERATOR FIXED O&M ESCALATION RATE				2.10	%
(8) AVOIDED GEN UNIT VARIABLE O&M COSTS				0.214	¢/KWH	(8) AVOIDED GEN UNIT VARIABLE O&M COSTS				0.988	¢/KWH
(9) GENERATOR VARIABLE O&M COST ESCALATION RATE				3.00	%	(9) GENERATOR VARIABLE O&M COST ESCALATION RATE				3.00	%
(10) GENERATOR CAPACITY FACTOR				50	%	(10) GENERATOR CAPACITY FACTOR				5	%
(11) AVOIDED GENERATING UNIT FUEL COST				3.03	¢/KWH	(11) AVOIDED GENERATING UNIT FUEL COST				3.18	¢/KWH
(12) AVOIDED GEN UNIT FUEL ESCALATION RATE				1.00	%	(12) AVOIDED GEN UNIT FUEL ESCALATION RATE				1.00	%

**FLORIDA POWER CORPORATION
General Service Customer Billing
BY LOAD FACTOR**

Total Demand & Energy Charges @ Present Rates
Reflects Billing Adjustments as of 04/01/01

FPSC Docket No. 000824-EI
FPC Witness: Slusser
Exhibit No. _____(WCS-6)
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Customer Monthly Load Factor	****GS Non-Demand, Standard Rate****			****GS Demand, Standard Rate ****		
	(GS-1)			(GSD-1)		
	Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh	Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh
0%	0.00	-	8.107	0.00	-	16.204
5%	2.96	8.11	8.107	5.91	16.20	5.526
10%	5.92	8.11	8.107	7.93	10.87	5.526
15%	8.88	8.11	8.107	9.95	9.09	5.526
20%	11.84	8.11	8.107	11.97	8.20	5.526
25%	14.79	8.11	8.107	13.98	7.66	5.526
30%	17.75	8.11	8.107	16.00	7.31	5.526
35%	20.71	8.11	8.107	18.02	7.05	5.526
40%	23.67	8.11	8.107	20.03	6.86	5.526
45%	26.63	8.11	8.107	22.05	6.71	5.526
50%	29.59	8.11	8.107	24.07	6.59	5.526
55%	32.55	8.11	8.107	26.08	6.50	5.526
60%	35.51	8.11	8.107	28.10	6.42	5.526
65%	38.47	8.11	8.107	30.12	6.35	5.526
70%	41.43	8.11	8.107	32.14	6.29	5.526
75%	44.38	8.11	8.107	34.15	6.24	5.526
80%	47.34	8.11	8.107	36.17	6.19	5.526
85%	50.30	8.11	8.107	38.19	6.15	5.526
90%	53.26	8.11	8.107	40.20	6.12	5.526
95%	56.22	8.11	8.107	42.22	6.09	5.526
100%	59.18	8.11	-	44.24	6.06	-

Customer Monthly Load Factor	Typical Usage Split		**GS Non-Demand, Optional TOU Rate**			**GS Demand, Optional TOU Rate**		
	% On-Peak	% Off-Peak	(GST-1)			(GSdT-1)		
			Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh	Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh
0%	-	-	0.00	-	10.220	0.00	-	16.798
5%	48.0%	52.0%	3.73	10.22	9.709	6.13	16.80	6.015
10%	46.0%	54.0%	7.27	9.96	9.198	8.33	11.41	5.826
15%	44.0%	56.0%	10.63	9.71	8.687	10.45	9.55	5.636
20%	42.0%	58.0%	13.80	9.45	8.495	12.51	8.57	5.565
25%	40.5%	59.5%	16.90	9.26	8.112	14.54	7.97	5.423
30%	39.0%	61.0%	19.86	9.07	7.729	16.52	7.54	5.281
35%	37.5%	62.5%	22.69	8.88	7.345	18.45	7.22	5.139
40%	36.0%	64.0%	25.37	8.69	6.962	20.32	6.96	4.997
45%	34.5%	65.5%	27.91	8.50	6.579	22.15	6.74	4.855
50%	33.0%	67.0%	30.31	8.30	6.195	23.92	6.55	4.713
55%	31.5%	68.5%	32.57	8.11	5.812	25.64	6.39	4.571
60%	30.0%	70.0%	34.69	7.92	5.429	27.31	6.24	4.429
65%	28.5%	71.5%	36.67	7.73	6.834	28.93	6.10	4.950
70%	28.0%	72.0%	39.17	7.66	6.707	30.73	6.01	4.902
75%	27.5%	72.5%	41.62	7.60	6.579	32.52	5.94	4.855
80%	27.0%	73.0%	44.02	7.54	6.451	34.29	5.87	4.808
85%	26.5%	73.5%	46.37	7.47	6.323	36.05	5.81	4.760
90%	26.0%	74.0%	48.68	7.41	6.195	37.79	5.75	4.713
95%	25.5%	74.5%	50.94	7.35	6.068	39.51	5.70	4.665
100%	25.0%	75.0%	53.16	7.28	-	41.21	5.65	-

**FLORIDA POWER CORPORATION
General Service Customer Billing
BY LOAD FACTOR**

FPSC Docket No. 000824-EI
FPC Witness: Slusser
Exhibit No. _____ (WCS-6)
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Total Demand & Energy Charges @ Proposed Rates
Reflects Billing Adjustments as of 04/01/01 modified
to include the effects of a 12CP & 25%AD method and reduced IS/CS credits

Customer Monthly Load Factor	****GS Non-Demand, Standard Rate****			****GS Demand, Standard Rate ****		
	(GS-1)			(GSD-1)		
	Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh	Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh
0%	0.00	-	8.010	0.00	-	16.191
5%	2.92	8.01	8.010	5.91	16.19	5.513
10%	5.85	8.01	8.010	7.92	10.85	5.513
15%	8.77	8.01	8.010	9.93	9.07	5.513
20%	11.69	8.01	8.010	11.95	8.18	5.513
25%	14.62	8.01	8.010	13.96	7.65	5.513
30%	17.54	8.01	8.010	15.97	7.29	5.513
35%	20.47	8.01	8.010	17.98	7.04	5.513
40%	23.39	8.01	8.010	19.99	6.85	5.513
45%	26.31	8.01	8.010	22.01	6.70	5.513
50%	29.24	8.01	8.010	24.02	6.58	5.513
55%	32.16	8.01	8.010	26.03	6.48	5.513
60%	35.08	8.01	8.010	28.04	6.40	5.513
65%	38.01	8.01	8.010	30.06	6.33	5.513
70%	40.93	8.01	8.010	32.07	6.28	5.513
75%	43.86	8.01	8.010	34.08	6.22	5.513
80%	46.78	8.01	8.010	36.09	6.18	5.513
85%	49.70	8.01	8.010	38.10	6.14	5.513
90%	52.63	8.01	8.010	40.12	6.11	5.513
95%	55.55	8.01	8.010	42.13	6.07	5.513
100%	58.47	8.01	-	44.14	6.05	-

Customer Monthly Load Factor	Typical Usage Split		**GS Non-Demand, Optional TOU Rate**			**GS Demand, Optional TOU Rate**		
	% On-Peak	% Off-Peak	(GST-1)			(GSDT-1)		
			Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh	Total Monthly Bill \$/kw	Effective Billing Cents/kwh	Charge per additional kwh Cents/kwh
0%	-	-	0.00	-	10.015	0.00	-	16.809
5%	48.0%	52.0%	3.66	10.01	9.531	6.14	16.81	5.980
10%	46.0%	54.0%	7.13	9.77	9.047	8.31	11.38	5.789
15%	44.0%	56.0%	10.44	9.53	8.562	10.42	9.52	5.619
20%	42.0%	58.0%	13.56	9.29	8.381	12.47	8.54	5.554
25%	40.5%	59.5%	16.62	9.11	8.018	14.50	7.95	5.426
30%	39.0%	61.0%	19.55	8.93	7.655	16.48	7.53	5.298
35%	37.5%	62.5%	22.34	8.74	7.292	18.42	7.21	5.170
40%	36.0%	64.0%	25.00	8.56	6.928	20.30	6.95	5.042
45%	34.5%	65.5%	27.53	8.38	6.565	22.14	6.74	4.914
50%	33.0%	67.0%	29.93	8.20	6.202	23.94	6.56	4.786
55%	31.5%	68.5%	32.19	8.02	5.839	25.68	6.40	4.658
60%	30.0%	70.0%	34.32	7.84	5.476	27.38	6.25	4.529
65%	28.5%	71.5%	36.32	7.65	6.807	29.04	6.12	4.999
70%	28.0%	72.0%	38.81	7.59	6.686	30.86	6.04	4.957
75%	27.5%	72.5%	41.25	7.53	6.565	32.67	5.97	4.914
80%	27.0%	73.0%	43.64	7.47	6.444	34.46	5.90	4.871
85%	26.5%	73.5%	46.00	7.41	6.323	36.24	5.84	4.828
90%	26.0%	74.0%	48.30	7.35	6.202	38.01	5.78	4.786
95%	25.5%	74.5%	50.57	7.29	6.081	39.75	5.73	4.743
100%	25.0%	75.0%	52.79	7.23	-	41.48	5.68	-