

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of

PETITION FOR RATE INCREASE BY
FLORIDA POWER & LIGHT COMPANY.

DOCKET NO. 050045-EI

2005 COMPREHENSIVE DEPRECIATION
STUDY BY FLORIDA POWER & LIGHT
COMPANY.

DOCKET NO. 050188-EI

ELECTRONIC VERSIONS OF THIS TRANSCRIPT ARE
A CONVENIENCE COPY ONLY AND ARE NOT
THE OFFICIAL TRANSCRIPT OF THE HEARING,
THE .PDF VERSION INCLUDES PREFILED TESTIMONY.

VOLUME 9

Pages 1441 through 1596

PROCEEDINGS: HEARING

BEFORE: CHAIRMAN BRAULIO L. BAEZ
COMMISSIONER J. TERRY DEASON
COMMISSIONER RUDOLPH "RUDY" BRADLEY
COMMISSIONER LISA POLAK EDGAR

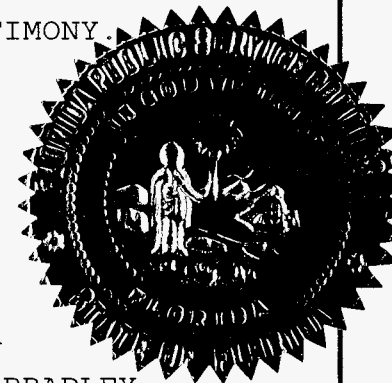
DATE: Monday, August 22, 2005

TIME: Commenced at 9:55 a.m.

PLACE: Betty Easley Conference Center
Room 148
4075 Esplanade Way
Tallahassee, Florida

REPORTED BY: LINDA BOLES, RPR, CRR
Official FPSC Hearings Reporter
(850) 413-6734

APPEARANCES: (As heretofore noted.)



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

I N D E X

WITNESSES

NAME:	PAGE NO.
STEVEN P. HARRIS	
Prefiled Rebuttal Testimony Inserted	1443
WILLIAM E. AVERA	
Prefiled Rebuttal Testimony Inserted	1458
MORAY P. DEWHURST	
Prefiled Rebuttal Testimony Inserted	1512
ROSEMARY MORLEY	
Prefiled Rebuttal Testimony Inserted	1547
CERTIFICATE OF REPORTER	1596

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**
2 **FLORIDA POWER & LIGHT COMPANY**
3 **REBUTTAL TESTIMONY OF STEVEN P. HARRIS**
4 **DOCKET NOS. 050045-EI, 051088-EI**
5 **JULY 28, 2005**

6
7 **Q. Please state your name and business address.**

8 A. My name is Steven P. Harris. My business address is ABSG Consulting, Inc.
9 (ABS Consulting), 1111 Broadway Street, Oakland, California 94607.

10 **Q. Did you previously submit direct testimony in this proceeding?**

11 A. Yes.

12 **Q. What is the purpose of your rebuttal testimony?**

13 A. I will respond to portions of the testimony submitted on behalf of the Florida
14 Office of Public Counsel (OPC) by Patricia W. Merchant, the Commercial
15 Group by James Selecky, AARP by Stephen Stewart, the Florida Retail
16 Federation (FRF) by Sheree Brown and South Florida Hospital and Health
17 Care Association (SFHHA) by Lane Kollen, addressing the estimated annual
18 storm loss on Florida Power & Light Company's (FPL's) system and the
19 witnesses' respective calculations of a proposed annual Storm Damage
20 Accrual amount.

21 **Q. Are you sponsoring an exhibit to your rebuttal testimony?**

22 A. Yes. I am sponsoring an exhibit consisting of two documents, SPH-3, Storm
23 Reserve Fund Analysis Case Results, and SPH-4, Comparison of Protection

1 Afforded by \$120 million, \$70 million and \$40 million Annual Accrual,
2 which is attached to my rebuttal testimony.

3

4 **THE ABS CONSULTING LOSS ANALYSIS IS RELIABLE**

5 **Q. Do you agree with witnesses Merchant, Stewart, Brown and Selecky who**
6 **suggest that a more reliable estimate of annual storm damage would be**
7 **based on actual 1990 to 2004 data, or some shorter period, excluding the**
8 **years 1992 and 2004 as extraordinary?**

9 A. No. Calculating an actual or simulated expected annual storm damage amount
10 that selectively excludes any possible damage events, whether large and
11 infrequent or small and frequent, is neither meaningful nor appropriate. Any
12 reliable estimate of the expected annual windstorm damage to which FPL is
13 exposed (expected annual damage) must include the most complete and full
14 damage distribution that can be determined both from actual experience and
15 from simulated possible damage.

16

17 It is true that not all years will experience damage equal to or greater than any
18 estimate of the expected annual damage. Many years may experience no
19 damage and others greater damage. Therefore, in developing expected annual
20 damage estimates, the most reliable methodology is to utilize the longest,
21 most complete historical record available. Since Florida's recorded hurricane
22 history is just over 100 years old, insurers rely on simulation modeling to
23 extend this "known" history into thousands of simulated years for the purpose

1 of estimating likely damage. The simulated expected annual damage to FPL's
2 system is the best estimate of the annual damage considering all possible
3 future hurricanes; not just the "normal" damage as proposed by Ms. Merchant,
4 Ms. Brown, Mr. Stewart and Mr. Selecky.

5 **Q. Do experts agree with you that selectively excluding large events from the**
6 **calculation of an expected annual damage estimate produces biased**
7 **results?**

8 A. Yes. The Florida Commission on Hurricane Loss Projection Methodology
9 (FCHLPM), an independent panel of experts that evaluates computer models
10 and actuarial methodologies for projecting hurricane losses, goes to great
11 lengths to ensure that all models used in the State for insurance rating
12 purposes appropriately capture the full range of the hurricane hazard. As
13 mentioned in my direct testimony, the ABS Consulting USWIND™ model
14 used to calculate FPL's expected annual damage is one of only four models
15 evaluated and determined acceptable by the FCHLPM for projecting hurricane
16 loss costs.

17 **Q. Witnesses Merchant, Stewart, Brown and Selecky argue that FPL's**
18 **annual storm damage accrual does not need to be increased substantially,**
19 **if at all, because the accrual has been sufficient to cover actual storm**
20 **damages incurred until the Storm Reserve balance became negative in**
21 **2004. Do you agree?**

22 A. No. First, remember that prior to 1993, FPL had insurance to cover storm
23 damage to FPL's transmission and distribution assets. After Hurricane

1 Andrew, insurers essentially withdrew from the market and adequate amounts
2 of transmission and distribution insurance at reasonable prices became
3 unavailable. The situation worsened after the events of September 11, 2001.
4 Since Hurricane Andrew, FPL has relied heavily on its Storm Reserve to self-
5 insure for storm damage to its transmission and distribution and other assets,
6 using annual contributions to the Reserve and earnings on the Reserve to
7 accumulate a fund to pay for storm damage when it occurs. Mr. Dewhurst
8 addresses the regulatory framework associated with FPL's Storm Reserve in
9 detail.

10

11 The reason that FPL's annual accrual appears to have been sufficient between
12 1993 and 2003 (excluding the real and large losses of Hurricane Andrew and
13 the hurricanes of 2004) was FPL's favorable storm history: several small
14 storms with few moderate annual losses. There were no hurricanes with
15 strong SSI 2 to SSI 4 winds that made direct landfalls in FPL's service
16 territory during this period.

17

18 The intervenors' suggestions would only be acceptable if FPL's management
19 and the Commission are willing to speculate that FPL's recent good luck over
20 a brief, selective storm period considered by Ms. Merchant and other
21 witnesses will continue. However, over the 100-year history, there have been
22 many more hurricane landfalls and damaging events than in the last 13 years.
23 Also, there is a growing body of evidence suggesting that the North Atlantic

1 Oscillation (NAO) and the El Niño or Southern Oscillation (ENSO) are
2 important climate variables in modulating hurricane return periods. The
3 damage estimated in the current ABS Consulting study, assumes the average
4 hurricane activity over the century. If you accept the opinion that changes in
5 the ENSO and NAO variables indicate we have entered a more active period
6 for hurricane formation like the 1920s and 1940s, FPL may expect to
7 experience higher than average damage to T&D over the next several years
8 and the ABS Consulting damage estimates could understate the actual risk
9 going forward.

10 **Q. Please respond to Ms. Merchant's suggestion on page 9 of her direct**
11 **testimony that the USWIND™ model cannot be relied upon because the**
12 **model "does not distinguish between the annual damages that are less**
13 **costly and those that are extraordinary."**

14 **A.** Ms. Merchant is incorrect. Table 5-2 of the Storm Loss Analysis titled
15 "Aggregate Damage Exceedance Probabilities and Expected Annual Damage
16 by Layer," Document SPH-1, page 21 of 29, filed with my direct testimony,
17 provides a detailed quantification of both the likelihood and severity of a full
18 range of possible FPL storm losses. Table 5-2 shows the likelihood of
19 damage to FPL's system exceeding a specified value over a one-year, three-
20 year and five-year period. For example, the probability of storm damage
21 exceeding \$950 million in a single year, like the 2004 hurricane season, is
22 1.2%, or about a 1 in 100 year event. The likelihood of storm damage
23 exceeding \$200 million in a single year is 10.2%, or about a 1 in 10 year

1 event. As discussed in Section 5.3 of the Storm Loss Analysis, the results of
2 this annual damage probability analysis are inputs to the Storm Reserve
3 Solvency Analysis.

4

5 **THE ANNUAL ACCRUAL LEVELS SUGGESTED BY THE INTERVENORS**
6 **PRESENT A MUCH GREATER LIKELIHOOD OF INSOLVENCY OVER**
7 **THE FIVE-YEAR PERIOD**

8 **Q. Have the intervenors considered the performance of the Storm Reserve at**
9 **their respective recommended annual accrual levels?**

10 A. No. With the exception of Mr. Kollen, none of the intervenors considered the
11 impact of their recommendations on the solvency of the Storm Reserve. Mr.
12 Kollen believes that the balance of the Storm Reserve should be zero
13 regardless of the increased rate volatility associated with repeatedly seeking
14 special assessments.

15 **Q. Is it essential that the intervenors consider the solvency of the Storm**
16 **Reserve when recommending a level for the annual accrual?**

17 A. Yes. A solvency analysis provides a tool for management and policymakers
18 to determine the performance of the Storm Reserve and to test whether annual
19 accrual amounts meet their objectives. With rate stability as a policy
20 objective, the question is what Storm Reserve balance should FPL seek to
21 achieve and how quickly should it be reached to provide the desired stability
22 in rates? That is a question addressed by Mr. Dewhurst in his testimony and
23 should be a consideration in the Commission's decision. Once a proper Storm

1 Reserve balance is determined and achieved, an accrual that equals the
2 expected annual damage will maintain this level in the Storm Reserve.

3

4 The ABS Consulting Solvency Analysis is a cash balance analysis starting
5 with some initial balance, which is zero in this case. An annual accrual is
6 added to the cash balance, and interest on the account balance at the end of the
7 year is calculated and added to the account. Annual storm damage is
8 simulated consistent with the Storm Loss Analysis for each of the five years.

9 The storms are randomly simulated, but over a long period of time, they have
10 an average of \$73.7 million in damage to FPL's system for each of the five
11 years in the solvency simulations.

12

13 For example, given that the expected annual damage is \$73.7 million per year,
14 if the Storm Reserve is funded at \$73.7 million per year, which is the annual
15 accrual suggested by Mr. Kollen and approximately the annual accrual
16 suggested by Mr. Selecky, over a long period of time, the expected annual
17 damage equals the annual accrual and the Reserve will not gain or loose value.

18 Therefore, with a starting balance of zero, the expected balance of the Reserve
19 will always hover around zero. At a balance of \$0, any storm damage will
20 have the effect of causing insolvency whenever it occurs. Likewise, if the
21 beginning Storm Reserve balance is \$250 million or \$350 million, the balance
22 will not grow if the annual accrual equals the expected annual damage.
23 Rather, it will fluctuate around the beginning balance.

1 **Q. Please respond to Ms. Merchant's assertion on page 21 that ABS**
2 **Consulting's "solvency analysis does not contemplate that the annual**
3 **accrual might be lowered by the Commission or that the utility might use**
4 **another vehicle to replenish the storm reserve in a shorter timeframe."**

5 **A.** The ABS Consulting Solvency Analysis has considered the current annual
6 accrual of \$20.3 million and demonstrated that it is inadequate to fund storm
7 losses going forward with an initial Storm Reserve balance of zero. Ms.
8 Merchant proposes the selective reduction of the limited FPL loss experience
9 as the basis for her recommendation of an annual Storm Reserve accrual
10 without addressing her own concern of the level to which the Storm Reserve
11 balance should be replenished. Referring to the Solvency Analysis, Ms.
12 Merchant states on page 21 that "[u]nless you agree 100% with the
13 assumptions included in his analysis, I do not believe that his solvency
14 analysis should be relied upon." The future performance of the Storm
15 Reserve cannot be established without a financial simulation analysis that
16 includes both the annual accrual and the beginning balance of the Storm
17 Reserve. Ms. Merchant does not consider the starting Storm Reserve balance
18 in making her recommendations, nor does she propose a target Storm Reserve
19 balance.

20 **Q. Please respond to Mr. Stewart's analysis on page 14 of his testimony,**
21 **which demonstrated that the balance of the Storm Reserve would have**
22 **been \$745.5 million after the 2004 hurricane season if the annual accrual**
23 **had been \$120 million beginning in 1990.**

1 A. In 1990, FPL did not need a \$120 million annual Storm Reserve accrual
2 because the Storm Reserve balance was \$60 million and growing due to a
3 favorable storm experience during the 1980s and because FPL's asset base
4 was much smaller since FPL had fewer customers then. In addition, FPL had
5 insurance through 1993, when it became unavailable. Viewed retrospectively,
6 over the period from 1992 through 2004, FPL did need a higher annual
7 accrual closer to the expected annual damage of \$73.7 million. This is borne
8 out by the first order estimate of the expected annual damage of \$106 million
9 performed by Ms. Merchant using a limited 12 years of loss history.

10

11 Currently, with a zero Storm Reserve balance, FPL has requested a \$120
12 million annual accrual (approximately \$70 million plus \$50 million) to build
13 the Storm Reserve balance up to a working target of \$500 million that can
14 fund for most but not all storms.

15 **Q. Does ABS Consulting's Solvency Analysis show there is value in setting**
16 **the annual accrual at a level higher than the expected annual damage?**

17 A. Yes. Assuming an annual accrual of \$70 million and a two-year recovery of
18 negative balances, close to the expected annual damage, 50% of the time
19 FPL's Storm Reserve will go insolvent within 5 years. If the annual accrual is
20 \$120 million and there is recovery of negative balances over a two-year
21 period, the likelihood of insolvency goes down to 34%. Therefore, the value
22 of accruing at a level higher than the expected annual damage until FPL's
23 Storm Reserve reaches some substantial balance is a more rapid growth of the

1 Reserve balance and reduction in volatility, from insolvency one out of two
2 years to insolvency one out of three years on average. This reduction in
3 volatility would be seen in a reduced frequency of special assessment and a
4 reduction of the levels of borrowing costs when the Storm Reserve does
5 become insolvent from extraordinary storm years.

6
7 If the FPL Storm Reserve balance had been zero (as Mr. Kollen recommends)
8 at the beginning of the 2004 storm season, the current deficit from storm
9 restoration would be the full \$890 million in uninsured damage. Providing a
10 positive target balance for the Storm Reserve reduces the rate volatility and
11 the recommended \$120 million annual accrual would result, on average, in
12 FPL requiring a special assessment for cost recovery every three years rather
13 than every other year.

14 **Q. Have you analyzed the likelihood of Storm Reserve insolvency at the**
15 **various annual accrual levels recommended by the intervenor witnesses?**

16 **A.** Yes. Document SPH-4, titled Storm Reserve Fund Analysis Case Results,
17 demonstrates that the \$20.3 million annual accrual recommended by Ms.
18 Brown results in a 79% chance of insolvency in any one year of the five-year
19 period both with and without recovery of negative balances over a two-year
20 period. The expected fund balance at the end of five years with Ms. Brown's
21 recommended accrual is negative \$277 million with no recovery of negative
22 balances in the Storm Reserve, and negative \$71 million with recovery of
23 negative balances over a two-year period.

1 The \$35 million annual accrual recommended by Ms. Merchant results in a
2 68% chance of insolvency in any one year of the five years and an expected
3 Reserve balance of negative \$209 million without recovery of negative
4 balances and negative \$15 million with recovery.

5
6 At the \$40 million accrual recommended by Mr. Stewart, there is a 64%
7 chance of insolvency in any one year of the five-year period and an expected
8 balance at the end of five years of negative \$177 million with no recovery of
9 negative balances and \$11 million with recovery.

10

11 At an annual accrual of \$70 million, recommended by Mr. Selecky and close
12 to Mr. Kollen's \$73.7 million recommendation, there is a 50% chance of
13 insolvency in any one year of the five year period (or one out of two years).
14 The expected balance at the end of five years is negative \$14 million with no
15 recovery of negative balances and \$138 million with recovery of negative
16 balances. The probability of insolvency at the end of five years is 34% and
17 17% for the 2 year recovery and no recovery cases respectively.

18

19 As stated in my direct testimony, the ABS Consulting analysis demonstrates
20 that, at FPL's recommended annual accrual of \$120 million, there is a 34%
21 chance of insolvency in any one year of five years (or approximately one out
22 of three years). At the end of five years, the expected balance in the Reserve
23 is \$256 million with no recovery of negative balances and \$367 million with

1 recovery of negative balances. The probability of insolvency at the end of five
2 years is 19% and 8% for the 2 year recovery and no recovery cases
3 respectively: about half the risk of insolvency for the \$70 million accrual.

4 **Q. Please respond to Ms. Merchant's concern that "the storm reserve could**
5 **grow to become quite large in a short time" if FPL's requested annual**
6 **accrual is accepted.**

7 A. Her concern is unfounded. As the Solvency Analysis demonstrates, if FPL's
8 annual accrual is accepted, the likelihood of FPL's Storm Reserve growing
9 above \$500 million within five-years is only about one in three. On the other
10 hand, at Ms. Merchant's recommended annual accrual of \$35 million, on
11 average, special assessments should be expected in more than three out of
12 every five years and customers would, in most years, see two special
13 assessments on their bills. With these negative expected balances, the Storm
14 Reserve would not be expected to fund anything but very small losses going
15 forward and the funding mechanism would become a de-facto "pay-as-you-
16 go" policy using special assessments. Mr. Dewhurst addresses the problems
17 of such an approach in his testimony.

18 **Q. Do the annual accrual levels recommended by witnesses Merchant,**
19 **Brown, Selecky, Stewart and Kollen cover "normal" levels of storm**
20 **damage or "smaller" storms?**

21 A. Not necessarily. The annual accrual levels proposed by these witnesses are
22 too small to cover transmission and distribution (T&D) damage from even

1 average Category 1 (SSI-1) storms that would make landfall in most of FPL's
2 service territory.

3

4 Document SPH-4, page 2 of 4, shows the frequency-weighted average T&D
5 damage from single SSI-1 storms, the least intense on the Saffir-Simpson
6 Hurricane Scale, that could make landfall within 10 nautical miles of the
7 specified mile post along FPL service territory. Document SPH-4 is similar to
8 Figure 6-2 in Document SPH-1, which is attached to my direct testimony.
9 Single SSI-1 landfalls near Miami, milepost 1480, have a mean (average)
10 T&D damage of approximately \$73 million. Single SSI-1 landfalls near
11 Sarasota, milepost 1240, have an average T&D damage of approximately \$20
12 million.

13

14 For a \$40 million annual accrual the expected Reserve balance of \$11 million
15 after five years determined from the Solvency Analysis is not adequate to
16 cover even the \$20 million SSI-1 T&D damage. For a \$40 million annual
17 accrual, the Storm Reserve becomes insolvent for average SSI-1 landfalls
18 anywhere in FPL's service territory since the damages are all greater than \$11
19 million. Document SPH-4, page 2 of 4, also shows that the \$70 million and
20 \$120 million annual accruals, which result in expected Reserve balances of
21 \$138 and \$367 million at the end of 5 years, would provide adequate funds for
22 all SSI-1 T&D storm damage.

23

1 Document SPH-4, page 3 of 4, shows that the expected Storm Reserve
2 balance at the end of five years for a \$40 million accrual does not cover any of
3 the SSI-3 storm landfalls at all. It would cover about 20% of the T&D damage
4 for SSI-3 storms. A \$70 million accrual and expected Reserve balance of
5 \$138 million at the end of five years will be adequate for some but not all SSI-
6 3s. It will cover most of a strike to Sarasota, milepost 1240, which averages
7 damage of \$160 million. It will cover most landfalls from West Palm Beach
8 north. It would not, however cover even half of the damage from mile posts
9 1450 to 1540; Dade and Broward counties, where damage averages in excess
10 of \$300 million. The \$120 million accrual would cover most SSI-3 landfalls
11 except the greatest damage in Miami at landfall mile posts 1470-1490.

12
13 Similarly, as seen on Document SPH-4, page 4 of 4, the expected Storm
14 Reserve balance at the end of five years for a \$40 million accrual doesn't
15 cover any of the SSI-4 storm landfalls at all. A \$70 million accrual and
16 expected Reserve balance of \$138 million at the end of five years would be
17 adequate for only a few SSI-4 storms. For SSI-4 storms, the \$367 million
18 balance expected Storm Reserve balance covers only a portion of T&D
19 damage in Miami-Dade, Broward and Palm Beach Counties, which have the
20 highest asset concentrations in FPL's service area.

21
22 Based on Figure 6-6 on page 6-6 of the Loss Analysis (SPH-1), which is
23 attached to my direct testimony, you see that even at a \$120 million annual

1 accrual, the expected \$367 million balance at the end of five years would
2 cover only a portion of the damage for most SSI-5 storm landfalls. For SSI-5
3 storms, the \$367 million expected balance at the end of five years is only
4 adequate to cover the least concentrated areas, which are in the northeast and
5 southwest parts of FPL's service territory.

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

7 **A. Yes.**

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **FLORIDA POWER & LIGHT COMPANY**

3 **REBUTTAL TESTIMONY OF WILLIAM E. AVERA**

4 **DOCKET NOS. 050045-EI, 050188-EI**

5 **JULY 28, 2005**

INTRODUCTION

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

7 A. William E. Avera, 3907 Red River, Austin, Texas, 78751.

8 **Q. Did you previously submit direct testimony in this proceeding?**

9 A. Yes, I did.

10 **Q. What is the purpose of your rebuttal testimony in this case?**

11 A. My purpose here is to respond to the testimony of Dr. J. Randall Woolridge,
12 submitted on behalf of the Office of Public Counsel (OPC), Mr. Matthew I. Kahal, on
13 behalf of the Federal Executive agencies, Mr. Richard A. Baudino, on behalf of the
14 South Florida Hospital and Healthcare Association, and Mr. James T. Selecky, on
15 behalf of the Commercial Group (collectively, Intervenors) concerning a fair rate of
16 return on equity (ROE) for Florida Power & Light Company (FPL). In addition, I
17 also respond to the capital structure recommendations of Mr. Lane Kollen, on behalf
18 of the South Florida Hospital and Healthcare Association, and the testimony of
19 Kimberly Dismukes, on behalf of OPC, concerning the appropriate cost of capital to
20 determine costs charged to FPL by FiberNet.

21 **Q. Are you sponsoring an exhibit to your rebuttal testimony?**

22 A. Yes. I am sponsoring an exhibit consisting of one document, Document WEA-13,
23 which is attached to my direct testimony.

1 **Q. What is your conclusion regarding Intervenor's ROE recommendations?**

2 A. Investors have many potential options for their funds and competition for investment
3 dollars is intense. As documented in my rebuttal testimony, Intervenor's cost of
4 equity recommendations are significantly downward-biased and out of touch with the
5 requirements of real-world investors in the capital markets. Considering investors'
6 heightened awareness of the risks associated with the utility industry, supportive
7 regulation remains crucial to maintaining FPL's access to capital and ensuring the
8 Company's continued ability to meet customer needs, especially considering the
9 challenges of its growing service area. Intervenor's recommendations would
10 compromise these regulatory objectives and deny FPL the opportunity to earn its
11 required rate of return.

DISCOUNTED CASH FLOW MODEL

12 **Q. What cost of equity estimates were produced by Intervenor's application of the**
13 **DCF method?**

14 A. Based on his application of the constant growth DCF model to the 21 electric utilities
15 in my proxy group, Dr. Woolridge concluded that the cost of equity for FPL is
16 currently 8.8%, which was equal to his recommendation in this case. Meanwhile, Mr.
17 Kahal concluded that the results of his DCF application indicated a midpoint cost of
18 equity of 9.5%, while Mr. Baudino based his recommended rate of return on equity of
19 8.70% on a range of DCF cost of equity estimates from 8.39% to 9.02%.

20 **Q. Is it reasonable to base FPL's fair rate of return solely on the results of the DCF**
21 **method, as Dr. Woolridge and Mr. Baudino recommend?**

22 A. No. As I noted in my direct testimony, because the cost of equity is unobservable, no
23 single method should be viewed in isolation. While the DCF model has been

1 routinely relied on in regulatory proceedings as one guide to investors' required
2 return, it is a blunt tool that should never be used exclusively, and regulators have
3 customarily considered the results of alternative approaches in determining allowed
4 returns. The need to consider alternative methods is especially important where the
5 results of one approach deviate significantly from cost of equity estimates produced
6 by other applications, with risk premium methods suggesting a cost of equity far in
7 excess of DCF values. Indeed, Mr. Baudino's alternative application of the Capital
8 Asset Pricing Model (CAPM) resulted in indicated cost of equity estimates for his
9 reference group of electric utilities of 11.32% and 11.55%, which he summarily
10 rejected.

11 **Q. Do you believe that the results of Intervenor's DCF analyses mirror investors'**
12 **long-term expectations in the capital markets?**

13 A. No. There is every indication that Intervenor's results are biased downward and fail
14 to reflect investors' required rate of return. Short-term projected growth rates may be
15 colored by current uncertainties regarding the near-term direction of the economy in
16 general and the spate of challenges faced by utilities specifically. This short-term
17 "hangover" is exemplified by Value Line, which has assigned its Utilities sector the
18 lowest ranking of all 10 sectors it covers for year-ahead stock price performance,¹
19 while noting that "[t]he industry's Timeliness rank remains near the bottom of all
20 industries we follow."² While this cautious outlook may be indicative of relatively
21

¹ The Value Line Investment Survey, *Selection & Opinion* (Feb. 11, 2005) at 1878.

² The Value Line Investment Survey (Apr. 1, 2005) at 695.

1 low near-term growth projections, it is not necessarily indicative of investors' long-
2 term expectations for the industry.

3 As Dr. Woolridge correctly observed:

4 [T]o best estimate the cost of common equity capital using the
5 conventional DCF model, one must look to long-term growth rate
6 expectations. (p. 25)

7 But as Mr. Kahal recognized (p. 23), “[t]here are a number of reasons why investor
8 expectations of long-run growth could differ from the limited, five-year earnings
9 projections from securities analysts.” If the near-term earnings growth projections
10 used to apply the DCF model do not fully reflect the long-term expectations investors
11 have built into stock prices, the resulting cost of equity estimates will be biased
12 downward. Mr. Kahal noted (p. 22) that “historic measures have become quite
13 volatile in recent years and therefore provide little (or questionable) useful guidance
14 concerning expected long-term growth trends.”

15 Indeed, as shown on Exhibit __ (JRW-7), Dr. Woolridge’s DCF cost of equity
16 recommendation was based in part on a 2.6% average historical growth rate.
17 Combining this growth rate with Dr. Woolridge’s 4.00% average dividend yield
18 results in a cost of equity estimate based on his historical growth measures of 6.6%.
19 Meanwhile, Moody’s reported an average yield on public utility bonds of
20 approximately 5.6 percent for May 2005,³ with the DCF estimate implied by Dr.
21 Woolridge’s historical growth rate exceeding this threshold by about 100 basis points.
22 Considering the risk-return tradeoff principle fundamental to financial theory, it is

³ Moody’s Investors Service, *Credit Perspectives* (Apr. 18, 2005).

1 inconceivable that investors are not requiring a substantially higher rate of return for
2 holding residual common stock, the riskiest of a utility's securities.

3 **Q. Does the fact that analysts' projections may deviate from actual results hamper**
4 **the use of earnings growth rates in applying the DCF model, as Dr. Woolridge**
5 **contends (p. 56)?**

6 A. No. In applying the DCF model to estimate the cost of equity, the only relevant
7 growth rate is the forward-looking expectations of investors that are captured in
8 current stock prices. Investors, just like securities analysts and others in the
9 investment community, do not know how the future will actually turn out. They can
10 only make investment decisions based on their best estimate of what the future holds
11 in the way of long-term growth for a particular stock, and securities prices are
12 constantly adjusting to reflect their assessment of available information.

13 The continued success of investment services such as IBES and Value Line,
14 and the fact that projected growth rates from such sources are widely referenced,
15 provides strong evidence that investors give considerable weight to analysts' earnings
16 projections in forming their expectations for future growth. While the projections of
17 securities analysts may be proven optimistic or pessimistic in hindsight, this is
18 irrelevant in assessing the expected growth that investors have incorporated into
19 current stock prices, and any bias in analysts' forecasts – whether pessimistic or
20 optimistic – is irrelevant if investors share analysts' views. Earnings growth
21 projections of security analysts provide the most frequently referenced guide to
22 investors' views and are widely accepted in applying the DCF model. As explained
23 in *Regulatory Finance: Utilities' Cost of Capital*:

1 Because of the dominance of institutional investors and their influence
2 on individual investors, analysts' forecasts of long-run growth rates
3 provide a sound basis for estimating required returns. Financial
4 analysts also exert a strong influence on the expectations of many
5 investors who do not possess the resources to make their own
6 forecasts, that is, they are a cause of g [growth]. ... Published studies
7 in the academic literature demonstrate that growth forecasts made by
8 securities analysts represent an appropriate source of DCF growth
9 rates, are reasonable indicators of investor expectations and are more
10 accurate than forecasts based on historical growth. ... Cragg and
11 Malkiel (1982) presented detailed empirical evidence that the average
12 analyst's expectation is more similar to expectations being reflected in
13 the marketplace than are historical growth rates, and that they
14 represent the best possible source of DCF growth rates.⁴

15 Similarly, Mr. Baudino noted in his testimony (p. 28) that "[t]he finance literature has
16 shown that analysts' forecasts provide better predictions of future growth than do
17 estimates based on historical growth alone," while Mr. Kahal recognized (p. 23) that
18 earnings growth projections of securities analysts are "one particularly useful source
19 of information on prospective growth."

⁴ Morin, Roger A., "Regulatory Finance: Utilities' Cost of Capital," Public Utilities Reports, Inc. (1994) at 154-155.

1 Q. What about Dr. Woolridge's contention (p. 56-60) that the analysts' earnings
2 growth projections you used in applying the DCF model are biased?

3 A. First, in contrast to Dr. Woolridge's allegations, a study reported in "Analyst
4 Forecasting Errors: Additional Evidence" found no optimistic bias in earnings
5 projections for large firms (market capitalization of \$500-\$3,000 million), with data
6 for the largest firms (market capitalization > \$3,000 million) demonstrating a
7 *pessimistic* bias.⁵

8 More importantly, however, any bias in analysts' forecasts – whether
9 pessimistic or optimistic – is irrelevant if investors share analysts' views. In using the
10 DCF model to estimate investors' required returns, the purpose is not to prejudge the
11 accuracy or rationality of investors' growth expectations. Instead, to accurately
12 estimate the cost of equity we must base our analyses on the growth expectations
13 investors actually used in determining the price they are willing to pay for common
14 stocks – even if we do not agree with their assumptions. As Robert Harris and Felicia
15 Marston noted in their article in *Journal of Applied Finance*:

16 There is very little research on the properties of five-year growth
17 forecasts, as opposed to short-term predictions.

18 ...Analysts' optimism, if any, is not necessarily a problem for the
19 analysis in this paper. If investors share analysts' views, our

⁵ Brown, Lawrence D., "Analyst Forecasting Errors: Additional Evidence," *Financial Analysts Journal* (November/December 1997).

1 procedures will still yield unbiased estimates of required returns and
2 risk premia.⁶

3 Dr. Woolridge's figures and graphs notwithstanding, the earnings growth projections
4 of security analysts provide the most frequently referenced guide to the views of real-
5 world investors in the capital markets. As a result, Dr. Woolridge's criticism of the
6 use of analysts' growth rates in applying the DCF model lacks any meaningful
7 foundation.

8 **Q. Did Dr. Woolridge provide any support for his allegation that Value Line**
9 **forecasts are "upward biased" (p. 60)?**

10 **A.** No. After noting that he was unaware of any studies to support his conclusion, Dr.
11 Woolridge simply asserted his personal belief that Value Line projections are "inflated
12 and unrealistic." But Dr. Woolridge's personal opinions are irrelevant to a
13 determination of what investors expect and, contrary to his conclusion, Value Line is
14 a well-recognized source in the investment and regulatory communities. Given the
15 fact that Value Line is perhaps the most widely available source of information on
16 common stocks, the projections of Value Line analysts provide an important guide to
17 investors' expectations. Moreover, in contrast to Dr. Woolridge's unsupported
18 assertion, the fact that Value Line is not engaged in investment banking or other
19 relationships with the companies that it follows reinforces its impartiality in the minds
20 of investors.

⁶ Harris, Robert S. and Marston, Felicia C., "The Market Risk Premium: Expectational Estimates Using Analysts' Forecasts," *Journal of Applied Finance* 11 (2001) at 8.

1 Q. Is there a downward bias inherent in intervenors' application of the DCF model
2 based on the internal, $br+sv$ growth rate?

3 A. Yes. Dr. Woolridge and Mr. Baudino based their calculation of the internal, "br"
4 growth rate on projection from Value Line, which reports end-of-period results. If the
5 rate of return, or "r" component of the "br" growth rate is based on end-of-year book
6 values, such as those reported by Value Line, it will understate actual returns because
7 of growth in common equity over the year. This downward bias, which has been
8 recognized by regulators,⁷ is illustrated in the table below.

9 Consider a hypothetical firm that begins the year with a net book value of
10 common equity of \$100. During the year the firm earns \$15 and pays out \$5 in
11 dividends, with the ending net book value being \$110. Using the year-end book value
12 of \$110 to calculate the rate of return produces an "r" of 13.6 percent. As the Federal
13 Energy Regulatory Commission (FERC) recognized, however, this year-end return
14 "must be adjusted by the growth in common equity for the period to derive an
15 average yearly return."⁸ In the example below, this can be accomplished by using the
16 average net book value over the year (\$105) to compute the rate of return, which
17 results in a value for "r" of 14.3 percent. Use of the average rate of return over the
18 year is consistent with the theory underlying this approach to estimating investors'
19 growth expectations, and as illustrated below, it can have a significant impact on the
20 calculated $br+sv$ growth rate:

⁷ See, e.g., *Southern California Edison Company*, Opinion No. 445 (Jul. 26, 2000), 92 FERC ¶ 61,070.

⁸ *Id.*

Beginning Net Book Value	\$100
Earnings	
Dividends	
Retained Earnings	<u>\$ 10</u>
Ending Net Book Value	\$110
<u>"br" Growth – End of Year</u>	
Earnings	\$ 15
Book Value	<u>\$110</u>
"r"	13.6%
"b"	<u>66.7%</u>
"br" Growth	9.1%
<u>"br" Growth – Average</u>	
Earnings	\$ 15
Book Value	<u>\$105</u>
"r"	14.3%
"b"	<u>66.7%</u>
"br" Growth	9.5%

1 Because Dr. Woolridge and Mr. Baudino did not adjust to account for this reality in
2 their analysis, their "br" growth rates are downward-biased and the resulting DCF
3 cost of equity is understated.

4 **Q. What other consideration leads to a downward bias in Intervenors' DCF**
5 **analyses using internal, "br" growth?**

6 A. Intervenors failed to consider the impact of additional issuances of common stock in
7 their analysis of the internal growth rate. As discussed in my direct testimony (p. 40)
8 under DCF theory, the "sv" factor is a component of the growth rate designed to
9 capture the impact of issuing new common stock at a price above, or below, book
10 value. As noted by Myron J. Gordon in his 1974 study:

11 When a new issue is sold at a price per share $P = E$, the equity of the
12 new shareholders in the firm is equal to the funds they contribute, and
13 the equity of the existing shareholders is not changed. However, if $P >$
14 E , part of the funds raised accrues to the existing shareholders.

1 Specifically...[v] is the fraction of the funds raised by the sale of stock
2 that increases the book value of the existing shareholders' common
3 equity. Also, "v" is the fraction of earnings and dividends generated
4 by the new funds that accrues to the existing shareholders.⁹

5 In other words, the "sv" factor is an adjustment required by the DCF approach to
6 ensure that the growth rate "g" is properly calculated for firms that plan to issue new
7 common stock in the coming years. Ignoring these planned stock issues that are
8 projected by Value Line distorts internal growth rates since investors using Value Line
9 would incorporate the impact of future stock issues in making their assessment of the
10 growth they expect when they purchase the company's common stock.

11 **Q. Did Intervenors adequately recognize the importance associated with reliance on**
12 **multiple methods and approaches in estimating the cost of equity?**

13 A. No. Apart from applications of the CAPM approach, which I address subsequently,
14 Intervenors' ignored the results of other risk premium methods to check or validate
15 their results. And even though Dr. Woolridge and Mr. Baudino apply the CAPM,
16 their recommendations were based only on the results of the constant growth DCF
17 model. As I explained in my direct testimony, however, no single method or model
18 should be relied upon to determine a utility's cost of equity because no single
19 approach can be regarded as wholly reliable. Considering the results of alternative
20 methods and approaches provides greater confidence that the end result is reflective
21 of investors' required rate of return. *Regulatory Finance: Utilities' Cost of Capital*
22 (Public Utilities Reports, Inc., 1994) concluded that:

⁹ Gordon, Myron J., "The Cost of Capital to a Public Utility," MSU Public Utilities Studies (1974), at 31 -32.

1 When measuring equity costs, which essentially deal with the
2 measurement of investor expectations, no one single methodology
3 provides a foolproof panacea. If the cost of equity estimation process
4 is limited to one methodology, such as DCF, it may severely bias the
5 results. (p. 238)

6 **Q. Do the results of alternative methods support Intervenors' cost of equity**
7 **recommendations in this case?**

8 A. No. Even without incorporating expectations for higher interest rates, as noted in my
9 direct testimony, application of the risk premium approach based on allowed rates of
10 return for electric utilities resulted in a current cost of equity of 10.6% (p. 45), while
11 applying the CAPM based on forward-looking expectations that are more consistent
12 with the underlying theory of this approach produced an estimated cost of equity of
13 11.8 percent (p. 49). Similarly, Mr. Baudino concluded that the CAPM approach
14 implied a cost of equity for FPL on the order of 11.32% to 11.55% (p. 38). These
15 estimates confirm the downward bias present in Intervenors' DCF results.

16 **Q. What other evidence indicates that Intervenors' cost of equity recommendations**
17 **for FPL are biased downward?**

18 A. Reference to allowed rates of return for other utilities also provides further
19 confirmation that Intervenors' recommendations fall significantly short of a
20 reasonable rate of return. The rates of return on common equity authorized electric
21 utilities by regulatory commissions across the U.S. are compiled by Regulatory
22 Research Associates (RRA) and published in its *Regulatory Focus* report. RRA
23 reported average authorized ROEs of 10.91 and 10.36 percent for electric utilities for
24 the fourth quarter of 2004 and first half of 2005, respectively. Meanwhile, Mr.

1 Selecky noted (p. 5) that the average return authorized for electric utilities in 2004
2 was 10.7%. These recent authorized returns exceed Intervenors' recommendations by
3 100 to 200 basis points.

4 Reference to rates of return available from alternative investments of
5 comparable risk can also provide a useful guideline in assessing the return necessary
6 to assure confidence in the financial integrity of a firm and its ability to attract capital.
7 This comparable earnings approach is consistent with the economic underpinnings for
8 a fair rate of return established by the Supreme Court. Moreover, it avoids the
9 complexities and limitations of capital market methods and instead focuses on the
10 returns earned on book equity, which are readily available to investors. The most
11 recent edition of Value Line (July 1, 2005) reports that its analysts expect an average
12 rate of return on common equity for the electric utility industry of 11.5% over its
13 three-to-five year forecast horizon. Even Dr. Woolridge was forced to grant (p. 48)
14 that his recommendation "is low by historic standards."

15 **Q. Did Mr. Selecky conduct any independent analyses of the cost of equity to FPL?**

16 **A.** No. While Mr. Selecky implied (p. 5) that FPL's requested ROE was "excessive," he
17 conducted no independent analyses or research to estimate investors' required rate of
18 return. Rather, Mr. Selecky merely observed that FPL's request exceeded recent
19 authorized returns. I agree that authorized rates of return can provide a meaningful
20 benchmark in evaluating investors' required rates of return; however, the study that
21 was included as Document WEA-6 to my direct testimony presents a comprehensive
22 evaluation of this information, with the results supporting my recommendations and
23 conclusions.

1 Q. Do Intervenors present any meaningful evidence that would warrant their
2 decision to ignore the results of alternative approaches to estimate the cost of
3 equity?

4 A. No. Dr. Woolridge argues (p. 32) that the CAPM is “difficult to measure because it
5 requires an estimate of the expected return on the market.” Similarly, Mr. Baudino
6 observes (pp. 34-35) that applying the CAPM requires “a considerable amount of
7 judgment,” which “can significantly influence the results.” Of course, this comes as
8 no surprise given that investors’ expectations and their required rate of return are both
9 unobservable. In fact, the very same criticisms can be leveled at the DCF model,
10 which requires an estimate of investors’ growth expectations and the exercise of
11 considerable judgment in order to estimate the cost of equity. The fact that risk
12 premium methods, like the DCF model, require estimates and cannot be applied in a
13 mechanical manner provides no basis to ignore these widely-recognized approaches
14 to estimate the cost of equity.

15 Q. Do you agree with the assertions of Mr. Baudino and Mr. Kahal that certain
16 companies should be excluded from your proxy group?

17 A. No. While Dr. Woolridge adopted my proxy group for purposes of his analysis, Mr.
18 Baudino argued that certain companies should be dropped, largely based on
19 subjective arguments concerning the impact of non-regulated operations. Similarly,
20 Mr. Kahal argued for the elimination of companies based on an assessment of the
21 degree of regulatory restructuring at the retail level. However, neither witness
22 demonstrated how their subjective criteria translate into differences in the investment
23 risks perceived by investors. Moreover, there are significant errors and

1 inconsistencies associated with their approach that justify rejecting their proxy groups
2 altogether.

3 **Q. Did Mr. Baudino and Mr. Kahal demonstrate a nexus between the subjective**
4 **criteria they used to define their proxy groups and objective measures of**
5 **investment risk?**

6 A. No. Under the regulatory standards established by *Hope* and *Bluefield*, the salient
7 criteria in establishing a meaningful proxy group to estimate investors' required return
8 is relative risk, not the source of the revenue stream or the degree of regulatory
9 restructuring. As Mr. Baudino correctly recognized (p. 17):

10 The key element in deciding whether to invest, however, is based on
11 comparative levels of risk. One hypothetical investor would not invest
12 in a particular electric company stock if it offered a return lower than
13 other investments of similar risk.

14 Neither Mr. Baudino nor Mr. Kahal presented any evidence that there is a connection
15 between the subjective criteria that they employed and the views of real-world
16 investors in the capital markets.

17 **Q. What objective evidence can be evaluated to confirm the conclusion that these**
18 **subjective criteria are not synonymous with comparable risk in the minds of**
19 **investors?**

20 A. Bond ratings are perhaps the most objective guide to utilities' overall investment risks
21 and they are widely cited in the investment community and referenced by investors.
22 While the bond rating agencies are primarily focused on the risk of default associated
23 with the firm's debt securities, bond ratings and the risks of common stock are closely
24 related. As noted in *Regulatory Finance: Utilities' Cost of Capital*:

1 Concrete evidence supporting the relationship between bond ratings
2 and the quality of a security is abundant. ... The strong association
3 between bond ratings and equity risk premiums is well documented in
4 a study by Brigham and Shome (1982).¹⁰

5 Indeed, Mr. Baudino stated (p. 19) that:

6 Bond ratings are another good tool that investors may utilize to
7 determine the risk comparability of firms.

8 While credit ratings provide the most widely referenced benchmark for
9 investment risks, other quality rankings published by investment advisory services
10 and rating agencies also provide relative assessments of risk that are considered by
11 investors in forming their expectations. For example, Value Line's Safety Rank,
12 which ranges from "1" (Safest) to "5" (Riskiest), is intended to capture the total risk
13 of a stock, and incorporates elements of stock price stability and financial strength.
14 Mr. Baudino (p. 19) characterized the Safety Rank as "[o]ne of the best-known and
15 most widely available" measures of investment risk.

16 As I noted in my direct testimony (p. 33), my proxy group of 21 electric
17 utilities had corporate credit ratings of "BBB+" or above, with an average rating of
18 single-A. As shown in the table below, credit ratings assigned to the nine utilities
19 excluded by Mr. Baudino based on his revenue test ranged from "BBB" to "A", while
20 the Safety Rank ranged from "1" to "3":

¹⁰ Morin, Roger A., "Regulatory Finance: Utilities' Cost of Capital," *Public Utility Reports* (1994) at 81.

<u>Group</u>	<u>S&P</u>		<u>Value Line</u>	
	<u>Credit Rating</u>		<u>Safety</u>	
	<u>Higher</u>	<u>Lower</u>	<u>Higher</u>	<u>Lower</u>
	<u>Risk</u>	<u>Risk</u>	<u>Risk</u>	<u>Risk</u>
Excluded by Baudino (Revenue)	BBB	A	3	1
Baudino Proxy Group	BBB+	A	3	1

1 As shown in the table above, a comparison of these objective risk indicators
2 demonstrates that the range of risks for the companies eliminated under the subjective
3 criteria proposed by Mr. Baudino are virtually identical to measures for the
4 companies included in their proxy groups.

5 **Q. What do you conclude from the analysis of different independent, objective risk**
6 **factors used by the investment community?**

7 A. Contrary to the allegations of Mr. Baudino, comparisons of objective, published
8 indicators that incorporate consideration of a broad spectrum of risks, confirm that
9 there is no link between the subjective test he applied to define his proxy groups and
10 the risk perceptions of investors. Similarly, Mr. Kahal has presented no evidence to
11 demonstrate any link between his proxy group criteria and investment risk.

12 **Q. What errors and inconsistencies are associated with the proxy groups proposed**
13 **by Mr. Baudino and Mr. Kahal?**

14 A. While Mr. Baudino proposes to eliminate nine companies from my proxy group based
15 on the proportion of revenues from regulated utility operations, many of the figures
16 he relied on to make this discrimination are incorrect. For example, DTE Energy
17 reported in its 2004 Form-10K report (Note 16) that operating revenues from “utility”
18 sources totaled approximately \$5.3 billion, or 75% of total operating revenues of \$7.1
19 billion – not the 18% relied on by Mr. Baudino. Meanwhile, SCANA reported that
20 revenues from its regulated electric utility, gas distribution, and gas transmission

1 operations totaled \$2.8 billion in 2004, or 72% of total consolidated revenues of \$3.9
2 billion (2004 Form 10-K at Note 11), while Sempra Energy recorded revenues from
3 regulated utility operations of approximately \$6.3 billion during 2004, or 67% of total
4 revenues of \$9.4 billion (2004 Form-10K Report at Note 17). Meanwhile, Mr.
5 Baudino erroneously reported that regulated revenues for SCANA and Sempra
6 Energy amounted to 43% and 48% of total revenues, respectively. Similarly, Vectren
7 Corporation's utility group posted 2004 revenues of \$1.5 billion, or 88% of the \$1.7
8 billion in total revenues (2004 Form-10K at Note 16), while Mr. Baudino mistakenly
9 claimed that regulated revenues amounted to only 22%. Thus, even accepting his
10 erroneous revenue criteria, Mr. Baudino should not have excluded DTE Energy,
11 SCANA, Sempra Energy, and Vectren Corporation.

12 **Q. Apart from these errors are there problems associated with the revenue criteria**
13 **proposed by Mr. Baudino?**

14 **A.** Yes. Due to differences in business segment definition and reporting between
15 utilities, it is often impossible to accurately apportion financial measures, such as total
16 revenues, between utility and non-utility sources. Consider the example of OGE
17 Energy, which Mr. Baudino argued should be excluded from the proxy group. OGE
18 Energy classifies its operations into two primary segments – Electric Utility and
19 Natural Gas Pipeline, with revenues attributable to the electric utility segment
20 accounting for approximately 32% of consolidated revenues in 2004 (Form 10-K at
21 Note 16). However, this does not present an accurate picture of “revenues coming
22 from regulated utility operations” because a portion of the revenues included in the
23 Natural Gas Pipeline segment also relate to rate regulated operations. As ONG
24 Energy reported to investors in its 2004 Form-10K:

1 The operations of the Natural Gas Pipeline segment are conducted
2 through Enogex Inc. and its subsidiaries (“Enogex”) and consist of
3 three related businesses: (i) the transportation and storage of natural
4 gas, (ii) the gathering and processing of natural gas and (iii) the
5 marketing of natural gas. ... Enogex also owns a controlling interest
6 in and operates Ozark Gas Transmission, L.L.C. (“Ozark”), a FERC
7 regulated interstate pipeline that extends from southeast Oklahoma
8 through Arkansas to southeast Missouri.

9 As a result, even ignoring the fact that there is no clear link between the source of a
10 utility’s revenues and investors’ risk perceptions, it is not possible to accurately apply
11 Mr. Baudino’s criteria.

12 **Q. What other inconsistencies argue for rejecting the proxy groups proposed by Mr.**
13 **Baudino and Mr. Kahal?**

14 **A.** Not surprisingly, the result of the subjective criteria proposed by Mr. Baudino and Mr.
15 Kahal is a hodgepodge of conflicting recommendations as to what constitutes a
16 “comparable” utility. For example, Mr. Baudino rejects SCANA, Vectren
17 Corporation, and WPS Resources from consideration, while Mr. Kahal includes all of
18 these firms in his proposed proxy group. Meanwhile, Mr. Baudino asserts (p. 26) that
19 the bond ratings of the firms in his proxy group are comparable to FPL, while Mr.
20 Kahal ignores credit ratings altogether. Indeed, one of the companies that Mr. Kahal
21 includes in his proxy group – Westar Energy – is actually rated “BB+” by S&P.
22 While Westar Energy has recently made progress in improving its finances, this
23 below investment grade credit rating places it in the same category as speculative
24 grade, or “junk” securities. Aside from the fact that Westar’s credit rating is not at all

1 comparable to FPL, the disruptions that accompany a speculative grade rating can
2 hinder the application of quantitative methods, such as the DCF model, to estimate
3 investors' required return. Given these errors and inconsistencies, the proxy groups
4 proposed by Mr. Baudino and Mr. Kahal should be rejected.

RISK PREMIUM

5 **Q. What is the fundamental problem associated with Dr. Woolridge's approach to**
6 **applying the CAPM?**

7 A. Like the DCF model, the CAPM is an *ex-ante*, or forward-looking model based on
8 expectations of the future. As a result, in order to produce a meaningful estimate of
9 investors' required rate of return the CAPM must be applied using data that reflects
10 the expectations of actual investors in the market. However, while Dr. Woolridge
11 concluded (p. 64-65) that "historic data does not provide a realistic or accurate
12 barometer of expectations of the future," his application of the CAPM method was
13 entirely premised on *historical* – not projected – rates of return. By failing to look
14 directly at the returns investors are currently requiring in the capital markets, as I did
15 on Document WEA-9, Dr. Woolridge's CAPM estimate significantly understates
16 investors' required rate of return.

17 **Q. Is there anything forward-looking about the academic studies referenced by Dr.**
18 **Woolridge?**

19 A. No. As Dr. Woolridge explained (p. 44), his CAPM analysis was based in part on a
20 4.0 percent risk premium determined from his review of an August 2003 working
21 paper that summarized the risk premiums reported in various academic studies.
22 Rather than looking directly at the returns investors might currently be requiring in

1 the capital markets, Dr. Woolridge predicated his CAPM study on a summary of
2 *historical* results from selected studies reported in the academic and trade literature.

3 These selected studies do not examine the forward-looking expectations of
4 today's investors to estimate the required market rate of return in current capital
5 markets. Instead of directly considering requirements in today's capital markets, Dr.
6 Woolridge is implicitly asserting that events and expectations for the time periods
7 covered by these selected studies are more representative of what is likely to occur
8 going forward. This assertion runs counter to the assumptions underlying the use of
9 the CAPM to estimate investors' required return. The primacy of current expectations
10 was recognized by Ibbotson Associates in their *2003 Yearbook, Valuation Edition*:

11 The cost of capital is always an expectational or forward-looking
12 concept. While the past performance of an investment and other
13 historical information can be good guides and are often used to
14 estimate the required rate of return on capital, the expectations of
15 future events are the only factors that actually determine cost of
16 capital. (p. 23)

17 Moreover, even if historical studies were relevant in this context, there are any
18 number of other such studies of equity risk premiums published in academic journals
19 that imply required rates of return considerably in excess of those relied on by Dr.
20 Woolridge. For example, a study reported in the *Financial Analysts' Journal* noted
21 that the real risk premium for U.S. stocks averaged 6.9 percent over the period 1889
22 through 2000 and concluded that:

23 Over the long term, the equity risk premium is likely to be similar to
24 what is has been in the past and returns to investment in equity will

1 continue to substantially dominate returns to investments in T-bills for
2 investors with a long planning horizon.¹¹

3 Combining this 6.9% risk premium with a 3.0% inflation rate and Dr. Woolridge's
4 4.50% risk-free rate implies a current required rate of return on equity for the market
5 as a whole of 14.4% – far in excess Dr. Woolridge's 8.2%, computed as the sum of his
6 3.7% market risk premium and 4.5% risk-free rate (p. 44).

7 **Q. Do the results of the underlying equity risk premium studies relied on by Dr.**
8 **Woolridge all make economic sense?**

9 A. No. In fact, three of the studies included on Exhibit __ (JRW-8) as support for Dr.
10 Woolridge's CAPM analysis reported *negative* equity risk premiums. In other words,
11 these studies apparently concluded that investors' required rate of return on common
12 stocks was *below* the return on risk-free debt. Similarly, other historical studies
13 included in Dr. Woolridge's assessment found market equity risk premiums of 3.0%
14 or below. But multiplying a market equity risk premium of 3.0% by Dr. Woolridge's
15 beta of 0.78 for the electric utility proxy group, and combining the resulting 2.34%
16 risk premium with his 4.5% risk-free rate, results in an indicated cost of equity of
17 approximately 6.8%. By any objective measure, such results fall woefully short of
18 required returns from an investment in common equity and confirm that Dr.
19 Woolridge's CAPM cost of equity has little relation to the expectation of real-world
20 investors.

¹¹ Mehra, Ranjish, "The Equity Premium: Why Is It a Puzzle?", *Financial Analysts' Journal* (January/February 2003).

1 Q. Are the results of Dr. Woolridge's "building block" approach (pp. 36-43) any
2 more indicative of forward-looking, *ex-ante* expectations?

3 A. No. Dr. Woolridge noted (p. 32-33) that historical results are not the same as future
4 expectations, and that the risk premium approach – including the CAPM – should be
5 applied using forward-looking information. Meanwhile, Dr. Woolridge applied his
6 "building block" approach based on backward-looking, historical data for certain key
7 variables. For example, Dr. Woolridge noted (p. 41) that the "RG" component of his
8 estimated market return was based on "the average of the *historic* S&P EPS real
9 growth and the *historic* real GDP growth." Similarly, his conclusion that investors
10 would not expect any further increases in the P/E ratios of common stocks going
11 forward was based largely on his review of P/E ratios for the S&P 500 over the last
12 25 years (p. 41-42).

13 Q. What evidence demonstrates that Dr. Woolridge's "building block" approach
14 rests on a weak foundation?

15 A. Dr. Woolridge based his "building block" analysis of the market equity risk premium
16 on an article by Roger G. Ibbotson and Peng Chen, published in *Financial Analysts'*
17 *Journal* ["Long-Run Stock Returns: Participating in the Real Economy,"
18 January/February 2003]. But Dr. Woolridge's conclusions differ markedly from those
19 of the article on which his "building blocks" approach was based. Based on the
20 results of their study, Ibbotson and Chen concluded that:

21 Our forecast of the equity risk premium is only slightly lower than the
22 pure historical return estimate. We estimate the expected long-term
23 equity risk premium ... to be about 6 percentage points
24 arithmetically... (p. 88)

1 Meanwhile, Dr. Woolridge asserted that the methods outlined by Ibbotson and Chen
2 currently suggest a market risk premium of 3.4%. In other words, Dr. Woolridge is
3 contending that the market equity risk premium has decreased by approximately 2.6%
4 -- a decline of over 43% -- since the time Ibbotson and Chen published their study in
5 early 2003. Of course, there is no underlying capital market evidence for such a
6 tremendous shift in the market equity risk premium. The fact that the results of Dr.
7 Woolridge's "building blocks" approach cannot be reconciled to observable capital
8 market trends or the results of the study on which it was based demonstrate the fatal
9 flaws inherent in his method.

10 **Q. Does the *Survey of Professional Forecasters*, cited repeatedly by Woolridge (p. 39,**
11 **41, 43, 74), provide any meaningful corroboration or guidance as to investors'**
12 **required rate of return?**

13 A. No. The *Survey of Professional Forecasters* is not an investment advisory
14 publication; nor is this report focused on serving as a resource for stock market
15 investors. Rather, this survey primarily targets broad indicators of macroeconomic
16 performance, such as GDP and its components, unemployment rates, industrial
17 production, and inflation. While the survey may provide a useful resource for
18 policymakers and in general business planning, it is not widely referenced by
19 investment professionals as a guide to stock market performance or routinely used in
20 estimating investors' required rate of return.

21 Indeed, as Dr. Woolridge notes at pages 45-46, the *Survey of Professional*
22 *Forecasters* apparently predicts that equity returns will exceed the yields on 10-year
23 Treasury bonds by 200 basis points. But with 10-year Treasuries yielding an average
24 of 4.13 percent in May 2005 (Moody's Credit Perspectives, June 20, 2005), this

1 implies an expected return on the S&P 500 of 6.13 percent under Dr. Woolridge's
2 paradigm. Meanwhile, Moody's reported that the average yield on triple-B corporate
3 bonds was 6.05 percent during May 2005 (Credit Perspectives, June 20, 2005 at 63).
4 Why would rational investors buy a basket of common stocks, and assume all the
5 inherent risk, when they could earn almost the same expected return with certainty by
6 buying a bond? The answer, of course, is that rational investors would not.
7 Considering that this return falls over 250 basis points below even Dr. Woolridge's
8 meager 8.80 percent cost of equity recommendation for an electric utility, it is clearly
9 nonsensical.

10 **Q. Do the risk premiums "of leading investment firms" cited by Dr. Woolridge at**
11 **pages 44-45 provide any support for his conclusions?**

12 A. No. Like the data from the *Survey of Professional Forecasters*, these observations
13 provide no meaningful guidance as to a fair rate of return for FPL. Dr. Woolridge
14 cites a market risk premium "in the 2.0 to 3.0 percent range" (p. 45) based on his two
15 selected sources. Multiplying the 2.5% midpoint of this range by Dr. Woolridge's
16 beta value of 0.78, and then adding the resulting 1.95% risk premium to his 4.5% risk
17 free rate, results in an implied cost of equity for an electric utility of 6.45%. In light
18 of the yields available on long-term debt and recent authorized rates of return, plain
19 common sense tells us that this result is simply meaningless. Rather than confirming
20 Dr. Woolridge's testimony, it provides one more indication of just how far his
21 analyses and opinions are from those of investors in the capital markets.

1 Q. What about Dr. Woolridge's reference to the risk premiums of "leading
2 consulting firms" (p. 46)?

3 A. Dr. Woolridge's reference to a 2002 McKinsey & Co. study demonstrates the fallacy
4 of his focus on selected historical information to apply the CAPM. As Dr. Woolridge
5 noted, in an effort to explain their observations regarding the behavior of equity risk
6 premiums, McKinsey & Co. concluded that equities had not become less risky.
7 Rather, they surmised that investors' required returns on government bonds had
8 increased due to concerns over the potential impacts of "inflation shocks." Over the
9 past several years, however, long-term government bonds have been largely viewed
10 as a safe haven as stock market volatility and a resulting "flight to quality" drove
11 bond yields steadily lower. While investors recognize the potential for inflation to
12 increase as the economy strengthens, there is no evidence that an anticipated
13 "inflation shock" similar to those of the 1970s has led to a secular decline in the
14 equity risk premium going forward. As Dr. Woolridge noted:

15 The equity risk premium is based on expectations of the future. When
16 past market conditions vary significantly from the present, historic
17 data does not provide a realistic or accurate barometer of the future.

18 (p. 70)

19 Considering that the historical premise underlying the conclusions of the McKinsey
20 study does not reflect current capital market expectations, this reference provides no
21 useful information in gauging investors' current required rates of return.

1 **Q. Does Dr. Woolridge (pp. 6-7) accurately characterize the statements of Alan**
2 **Greenspan?**

3 A. No. Dr. Woolridge's selective quotation ignores both the context and the message of
4 Mr. Greenspan's remarks. First, it is important to note that Mr. Greenspan's
5 comments were made in October 1999, at a time of when sharply rising equity
6 valuation were giving rise to concern over "irrational exuberance." Rather than
7 predicting continued expectations for lower risk premiums, Mr. Greenspan's October
8 1999 speech warned his audience not to be complacent. Mr. Greenspan noted that
9 any decline in equity risk premiums could prove to be temporary – an observation
10 that was borne out by the subsequent collapse in equity values – and he specifically
11 predicted that sharply rising risk premiums could lead to crisis if not addressed
12 beforehand. As Mr. Greenspan noted:

13 ...history tells us that sharp reversals in confidence can occur abruptly,
14 most often with little advance notice. These reversals can be self-
15 reinforcing processes that can compress sizeable adjustments into a
16 very short period. ... The uncertainties inherent in valuations of assets
17 and the potential for abrupt changes in perceptions of those
18 uncertainties clearly must be adjudged by risk managers...¹²

19 Rather than supporting Dr. Woolridge's anemic ROE recommendation, Mr.
20 Greenspan's cautions over the potential for swift and sharp reversals is entirely
21 consistent with my testimony that adequate support for FPL's financial integrity is

¹² "Measuring Financial Risk in the Twenty-first Century," *Remarks by Alan Chairman Greenspan* (Oct. 14, 1999).

1 essential to ensure that customers continue to receive the high level of service they
2 have come to expect from the Company.

3 **Q. Is there anything wrong with the approach that you employed to determine the**
4 **equity risk premium for your forward-looking CAPM analysis (Document**
5 **WEA-9)?**

6 A. No. As explain in my direct testimony, I estimated the current equity risk premium
7 by first applying the DCF model to estimate investors' current required rate of return
8 for the firms in the S&P 500 and then subtracting the yield on government bonds. Dr.
9 Woolridge and Mr. Kahal contend that this CAPM analysis is flawed because of an
10 alleged upward bias in the analysts' growth estimates used to estimate investors'
11 expected return on the S&P 500.

12 The fallacy of these arguments was addressed earlier in my discussion of the
13 DCF model. Moreover, Intervenors all rely on analysts estimates in applying the
14 DCF model and the use of forward-looking expectations in estimating the market risk
15 premium is well accepted in the financial literature. For example, in "The Market
16 Risk Premium: Expectational Estimates Using Analysts' Forecasts" [*Journal of*
17 *Applied Finance*, Vol. 11 No. 1, 2001], Robert S. Harris and Felicia C. Marston
18 employed the DCF model and earnings growth projections from IBES – just as I did
19 in Document WEA-9, to estimate the required rate of return on the S&P 500.
20 Similarly, the table on page 33 of Dr. Woolridge's testimony noted that:

21 Current financial market prices (simple valuation ratios or DCF-based
22 measures) can give most objective estimate of feasible ex ante equity-
23 bond risk premium.

1 Dr. Woolridge went on to note (p. 35) that “Fama and French conclude that ex ante
2 equity risk premium estimates using DCF models and fundamental data are superior
3 to those using ex post historic stock returns.” In fact, this application of the DCF
4 model to the S&P 500 using current financial market data is exactly the approach
5 reflected in my forward-looking application of the CAPM presented in Document
6 WEA-9.

7 Dr. Woolridge’s complaints about my forward-looking CAPM approach seem
8 to hinge on the fact that this method produces an equity risk premium for the S&P
9 500 that is considerably higher than the unrealistic benchmarks he cites. But as I
10 explained earlier, the benchmarks cited by Dr. Woolridge fail even the most
11 rudimentary tests of economic logic. Estimating investors’ required rate of return by
12 reference to current, forward-looking data, as I have done, is entirely consistent with
13 the theory underlying the CAPM methodology. As noted earlier, the CAPM is an *ex-*
14 *ante*, or forward-looking model based on expectations of the future. As a result, in
15 order to produce a meaningful estimate of required rates of return, the CAPM is best-
16 applied using data that reflects the expectations of actual investors in the market.
17 Rather than look backwards to a select subset of academic studies, or a “building
18 blocks” risk premium based largely on historical data, as Dr. Woolridge advocates,
19 my analysis appropriately focused on the expectations of actual investors in today’s
20 capital markets.

21 **Q. Is there any basis for Mr. Kahal’s characterization of your forward-looking**
22 **CAPM analysis as “optimistic” (p. 36)?**

23 **A.** No. Rather than citing a single “top-down” growth rate, such as those referenced by
24 Mr. Kahal, my analysis relied on the individual consensus growth forecasts of

1 securities analysts for each of the firms included in the S&P 500. This “bottom-up”
2 approach results in a more all-encompassing growth rate that considers expectations
3 for each of the individual firms making up the market index. Moreover, as noted
4 earlier this very same approach has been adopted in recognized studies reported in the
5 financial literature. Similarly, contrary to Mr. Kahal’s suggestion that the 9.3 percent
6 market risk premium estimated in my analysis is “optimistic”, the results of the
7 *Financial Analysts’ Journal* study cited earlier implies a market risk premium of 9.9
8 percent.

9 Finally, I find it ironic that Mr. Kahal would advocate a “top-down” growth
10 rate for the S&P 500 while ignoring comparable information for the electric utility
11 industry. For example, Zacks Investment Research, which Mr. Kahal cites (p. 36) as
12 a source of “top-down” growth estimates for the S&P 500, reports an expected 5-year
13 growth rate for its “UTIL-ELEC PWR” industry of 7.2%. This growth rate,
14 combined with Mr. Kahal’s adjusted dividend yield of 4.3%, implies a cost of equity
15 for an electric utility of 11.5%.

16 **Q. Did Mr. Baudino employ a similar approach to apply the CAPM?**

17 A. Yes. Using data for the companies followed by Value Line, Mr. Baudino (p. 35)
18 combined an average growth rate of 12.70% with an average dividend yield of 1.18%
19 to estimate a required rate of return on the market of 13.88%, which is identical to my
20 forward-looking market return of 13.9% (Document WEA-9). Based on this market
21 rate of return, Mr. Baudino concluded (p. 38) that the CAPM implied a cost of equity
22 of 11.55% based on 20-year Treasury bond yields.

1 **Q. Did Mr. Baudino present any meaningful basis for ignoring the results of his**
2 **CAPM analysis?**

3 A. No. Mr. Baudino's decision to ignore his CAPM results was based on his belief that
4 1) "historical betas are ... likely to fall from their current level" (p. 40); and 2) "the
5 expected return on the market ... appears to be quite volatile" (p. 41). Neither of
6 these assertions justifies Mr. Baudino's decision to ignore the results of the CAPM
7 approach. First, as discussed in detail in my direct testimony, there is every
8 indication that the electric utility industry will continue to face volatility and ongoing
9 challenges associated with wholesale market restructuring. Additionally, there is no
10 objective evidence to support Mr. Baudino's conclusion that beta values for electric
11 utilities are on a decline. Similarly, considering the inherent uncertainties involved in
12 estimating the cost of equity, the 50 basis-point shift in the estimated market rate of
13 return cited by Mr. Baudino is hardly an indictment of the CAPM. Indeed, similar
14 changes could just as easily occur when applying the DCF model to estimate the cost
15 of equity for electric utilities. Mr. Baudino's observation (p. 34) that "a considerable
16 amount of judgment must be employed" to use the CAPM applies just as readily to
17 the DCF model.

18 **Q. Do you agree with Intervenors that it is not appropriate to consider expected**
19 **increases in capital costs when establishing the allowed ROE for FPL?**

20 A. No. While Intervenors observe that the projected long-term bond yields referenced in
21 my analysis have not yet been realized, they also grant that yields are currently at all-
22 time lows compared with the recent past and that there is "uncertainty over the
23 economy and interest rates" (Woolridge, p. 64). In fact, it is this very realization, and

1 the general expectation that long-term capital costs will move higher, that warrants
2 consideration of widely referenced forecasts of future bond yields.

3 On June 30, 2005 the Federal Reserve raised interest rates for the ninth time
4 since June 2004 and has signaled it is likely to continue to act at a "measured" pace.
5 Expectations remain that these actions will also translate into higher long-term
6 interest rates. Indeed, the most recent edition of the *Survey of Professional*
7 *Forecasters* [Second Quarter 2005] cited by Dr. Woolridge expects that 10-year
8 Treasury bond yields will increase approximately 1.1 percent between 2005 and 2006.
9 Value Line recently noted the impact that readjustments in capital market conditions –
10 in the form of higher interest rates – would have on investors' assessment of utility
11 stocks:

12 [I]f interest rates continue to rise, as we are projecting, some positive
13 attributes that come with owning an income stock may be reduced.¹³

14 Consideration of interest rate forecasts does not presume that financial markets are
15 "wrong"; rather, it recognizes that investors' required returns can and do shift over
16 time with changes in capital market conditions.

17 Competition for capital is intense, and electric utilities such as FPL must be
18 granted the opportunity to earn an ROE comparable to contemporaneous returns
19 available from alternative investments if they are to maintain their financial flexibility
20 and ability to attract capital. Expected capital market conditions during the time
21 when rates established in this proceeding will be in effect are certainly one very valid
22 barometer in ensuring that this fundamental economic and regulatory test is met.

¹³ The Value Line Investment Survey (Mar. 18, 2005) at 459.

1 Moreover, as I noted in my direct testimony, consideration of interest rate forecasts is
2 also consistent with the methodology employed at the FPSC in the past. Indeed, Mr.
3 Kahal granted (p. 34) that the FPSC “may wish to consider ... interest rate projections
4 ... in selecting a final ROE award for FPL.”

5 **Q. Is Dr. Woolridge correct when he claims on page 67 that the arithmetic mean is**
6 **“biased” so that the geometric mean should be the sole measure of average rate**
7 **of return?**

8 A. No, absolutely not. Both the arithmetic and geometric means are legitimate measures
9 of average return; they just provide different information. Each may be used
10 correctly, or misused, depending upon the inferences being drawn from the numbers.
11 I am particularly sensitive to Dr. Woolridge’s mischaracterization of these measures
12 since my Ph.D. dissertation dealt with the proper use of the geometric mean by
13 investors.

14 The geometric mean of a series of returns measures the constant rate of return
15 that would yield the same change in the value of an investment over time. The
16 arithmetic mean measures what the expected return would have to be each period to
17 achieve the realized change in value over time. In estimating the cost of equity, the
18 goal is to replicate what investors expect going forward, not to measure the average
19 performance of an investment over an assumed holding period. Under the realized
20 rate of return approach, investors consider the equity risk premiums in each year
21 independently, with the arithmetic average of these annual results providing the best
22 estimate of what investors might expect in future periods. *Regulatory Finance:*
23 *Utilities’ Cost of Capital* (1994) had this to say:

1 One major issue relating to the use of realized returns is whether to use
2 the ordinary average (arithmetic mean) or the geometric mean return.
3 *Only arithmetic means are correct for forecasting purposes and for*
4 *estimating the cost of capital.* When using historical risk premiums as
5 a surrogate for the expected market risk premium, the relevant
6 measure of the historical risk premium is the arithmetic average of
7 annual risk premiums over a long period of time. (p. 275, emphasis
8 added)

9 Similarly, Ibbotson Associates concluded in its *2004 Yearbook, Valuation Edition*,
10 that:

11 For use as the expected equity risk premium in either the CAPM or the
12 building block approach, the arithmetic mean or the simple difference
13 of the arithmetic means of stock market returns and riskless rates is the
14 relevant number. ... The geometric mean is more appropriate for
15 reporting past performance, since it represents the compound average
16 return. (p. 71)

17 One does not have to get deep into finance theory to see why the arithmetic mean is
18 more consistent with the facts of this case. The FPSC is not setting a constant return
19 that FPL is guaranteed to earn over a long period. Rather, the exercise is to set an
20 expected return based on test year data. In the real world, FPL's yearly return will be
21 volatile, depending on many economic and weather factors, and investors do not
22 expect to earn the same return each year.

1 Q. **What does this imply with respect to the conclusions of Dr. Woolridge's CAPM**
2 **analysis?**

3 A. As noted earlier, Dr. Woolridge based his market equity risk premium in part on a
4 paper summarizing the risk premiums reported in various academic studies. Apart
5 from the problems associated with the individual studies noted earlier, as indicated on
6 Exhibit __ (JRW-8), page 3, almost one-half of the risk premiums reported by Dr.
7 Woolridge were based on geometric means. For a variable series, such as stock
8 returns, the geometric average will always be less than the arithmetic average.
9 Accordingly, Dr. Woolridge's reference to studies based on geometric average rates of
10 return provides yet another element of downward bias.

11 Similarly, this same downward bias is also reflected in the market return data
12 Dr. Woolridge referenced from the *Survey of Professional Forecasters*, which is a
13 *geometric* average return over the next 10 years.

14 Q. **Do the 5-year Treasury bills rates referenced by Mr. Baudino (p. 37) provide an**
15 **appropriate basis to estimate the cost of equity using the CAPM?**

16 A. No. Common equity is a perpetuity and as a result, any application of the CAPM to
17 estimate the return that investors require must be predicated on their expectations for
18 the firm's long-term risks and prospects. This does not mean that every investor will
19 buy and hold a particular common stock into perpetuity. Rather, it recognizes that
20 even an investor with a relatively short holding period will consider the long-term,
21 because of its influence on the price that he or she ultimately receives from the stock
22 when it is sold. This is also the basic assumption underpinning the DCF model,
23 which in theory considers the present value of all future dividends expected to be
24 received by a share of stock.

1 Shannon P. Pratt, a leading authority in business valuation and cost of capital,
2 recognized in "Cost of Capital, Estimation and Applications," (1998) that the cost of
3 equity is a long-term cost of capital and that the appropriate instrument to use in
4 applying the CAPM is a long-term bond:

5 The consensus of financial analysts today is to use the 20-year U.S.
6 Treasury yield to maturity as of the effective date of valuation for the
7 following reasons:

- 8 • It most closely matches the often-assumed perpetual lifetime
9 horizon of an equity investment.
- 10 • The longest-term yields to maturity fluctuate considerably less than
11 short-term rates and thus are less likely to introduce unwarranted
12 short-term distortions into the actual cost of capital.
- 13 • People generally are willing to recognize and accept the fact that
14 the maturity risk is impounded into this base, or otherwise risk-free
15 rate.
- 16 • It matches the longest-term bond over which the equity risk
17 premium is measured in the Ibbotson Associates data series. p. 60

18 Similarly, in applying the CAPM Ibbotson Associates recognized that the cost of
19 equity is a long-term cost of capital and the appropriate interest rate to use is a long-
20 term bond yield:

21 The horizon of the chosen Treasury security should match the horizon
22 of whatever is being valued. ... Note that the horizon is a function of
23 the investment, not the investor. If an investor plans to hold a stock in

1 a company for only five years, the yield on a five-year Treasury note
2 would not be appropriate since the company will continue to exist
3 beyond those five years.¹⁴

4 Accordingly, proper application of the CAPM should focus on long-term government
5 bonds – not the 5-year Treasury notes reference by Mr. Baudino – in estimating the
6 cost of equity for an electric utility.

7 **Q. Do these observations also apply to the risk-free rate used by Dr. Woolridge?**

8 A. Yes. Dr. Woolridge wrongly asserts (p. 29), that “the yield on 10-year Treasury bonds
9 has replaced the yield on 30-year Treasury bonds as the benchmark long-term
10 Treasury rate.” In fact, however, this is simply not the case, with both Mr. Kahal and
11 myself referencing the yields on 20-year Treasury bonds, not the 10-year notes relied
12 on by Dr. Woolridge.¹⁵ These medium-term securities are subject to the same
13 criticisms outlined above with respect to Mr. Baudino’s 5-year notes, and provide
14 another example of the downward bias that infects Dr. Woolridge’s analyses and
15 conclusions.

16 **Q. Do Intervenors offer any meaningful criticisms of your risk premium
17 approaches based on allowed ROEs and realized returns for electric utilities?**

18 A. No. Dr. Woolridge’s major criticism is that these studies are based on historical
19 information. While I would agree that the forward-looking CAPM study contained in
20 Document WEA-9 is apt to provide a more direct reflection of future expectations,
21 reference to allowed rates of return and realized rates of return for electric utilities

¹⁴ Ibbotson Associates, *2003 Yearbook* (Valuation Edition) at 53.

¹⁵ Dr. Woolridge also incorrectly asserts (p. 63) that I used a 30-year Treasury rate, which is clearly not accurate.

1 provides a direct approach to estimate the cost of equity that does not require
2 extrapolation from a market benchmark. Such approaches have been widely
3 referenced in regulatory proceedings. Moreover, this “criticism” is ironic considering
4 that Dr. Woolridge’s CAPM was predicated almost exclusively on historical data.
5 Further, Dr. Woolridge’s reference to “survivorship bias” and the “peso problem” are
6 not relevant, given that my studies focused directly on electric utilities and not on the
7 S&P 500 Index.

8 Second, Dr. Woolridge wrongly claims that reference to allowed rates of
9 return for electric utilities involves “circular reasoning.” Similarly, Mr. Baudino (p.
10 53) mistakenly asserts that, by considering the risk premiums implied by past
11 authorized returns, the FPSC would somehow lose its ability to evaluate evidence in
12 this proceeding. In fact, however, the cost of equity findings reflected in Document
13 WEA-6 and the FPSC’s actions in this proceeding are entirely independent.
14 Authorized rates of return presumably represent regulators’ best assessment of
15 investors’ required rate of return at the time of the decision. While this is a valid
16 approach that warrants consideration in the FPSC’s deliberations, there is no
17 “circularity” between the two. Under Dr. Woolridge’s paradigm, it would be just as
18 valid to argue that the use of projected earnings growth rates is “circular,” since these
19 are presumably impacted by expectations of regulatory actions. The fact that no
20 credible analyst would make such an argument illustrates the fallacy of Dr.
21 Woolridge’s criticism here.

22 Similarly, Mr. Kahal’s criticisms (p. 37-38) of the allowed rates of return used
23 in this approach are without merit. First, he is incorrect to allege that the information
24 regarding average allowed rates of return in each year is unreliable simply because

1 every item of possible interest in each rate case is not also presented in my schedule.
2 The allowed rates of returns are taken from a recognized and widely-used publication
3 from a firm with a long history of accumulating and reporting the results of state
4 regulatory commission decisions. Mr. Kahal and Mr. Baudino (p. 53) question the
5 potential that authorized ROEs may consider “adjustment factors,” such as flotation
6 costs. But such criticisms miss the point. Under this approach, it is not necessary to
7 examine the actual tools and techniques relied on by regulators to set allowed rates of
8 return. Rather, what matters is that, after reasoned consideration of the evidence
9 presented by all participants to a rate proceeding, regulators make an informed
10 determination of a fair rate of return at the time they issue their decision. This
11 determination is embodied in the authorized rates of return on equity that I used to
12 apply the risk premium approach.

13 With respect to his remaining argument, Mr. Kahal is wrong to claim (p. 38)
14 that the inverse relationship between equity risk premiums and interest rates is due to
15 “behavior of the regulatory process” rather than “the requirements of financial
16 markets.” In fact, the inverse relationship between equity risk premiums and interest
17 rates has been widely reported in the financial literature. As noted in *Regulatory*
18 *Finance: Utilities’ Cost of Capital*:

19 Published studies by Brigham, Shome, and Vinson (1985), Harris
20 (1986), Harris and Marston (1992), Arelton, Chambers, and
21 Lakonishok (1983), McShane (1993) and others demonstrate that,
22 beginning in 1980, risk premiums varied inversely with the level of
23 interest rates – rising when rates fell and declining when rates rose. (p.
24 291)

1 In conclusion, my risk premium analyses based on authorized and realized rates of
2 return for electric utilities represent sound approaches to estimating investors'
3 requirements and Intervenor's criticisms of these methods are unfounded.

OTHER ISSUES

4 **Q. Does Dr. Woolridge's discussion of market-to-book ratios (pp. 14 & 49) provide**
5 **any meaningful basis on which to evaluate the cost of equity for FPL?**

6 **A.** No. The argument that regulators should set a required rate of return to produce a
7 market-to-book value of approximately 1.0 is fallacious. As noted in *Regulatory*
8 *Finance: Utilities Cost of Capital*:

9 The stock price is set by the market, not by regulators. The M/B ratio
10 is the end result of regulation, and not its starting point. The view that
11 regulation should set an allowed rate of return so as to produce a M/B
12 of 1.0, presumes that investors are masochistic. They commit capital
13 to a utility with a M/B in excess of 1.0, knowing full well that they
14 will be inflicted a capital loss by regulators. This is not a realistic or
15 accurate view of regulation. (p. 265)

16 Indeed, while Dr. Woolridge reports an average return on equity of 11.0% on common
17 equity for the firms in the proxy group (p. 49), he suggests that regulators should
18 allow them to earn no more than 8.8%. With market-to-book ratios above 1.0 times,
19 Dr. Woolridge apparently believes that, unless book value grows rapidly, regulators
20 should establish equity returns that will cause share prices to fall.

21 Within the paradigm of DCF theory, a drop in stock prices means negative
22 growth, and if investors expect negative growth then this is the relevant "g" to
23 substitute in the constant growth DCF model. In turn, a negative growth rate implies

1 a DCF cost of equity for utilities less than their dividend yields. This, of course, is
2 truly a nonsensical result, and a manifestation of the failings of Dr. Woolridge's
3 arguments.

4 **Q. Have regulators previously recognized the fallacy of relying on market-to-book**
5 **ratios in evaluating cost of equity estimates?**

6 A. Yes. For example, the Presiding Judge in *Orange & Rockland* concluded, and the
7 FERC affirmed that:

8 The presumption that a market-to-book ratio greater than 1.0 will
9 destroy the efficacy of the DCF formula disregards the realities of the
10 market place principally because the market-to-book ratio is rarely
11 equal to 1.0.¹⁶

12 The Initial Decision found that there was no support in Commission precedent for the
13 use of market-to-book ratios to adjust market derived cost of equity estimates based
14 on the DCF model and concluded that such arguments were to be treated as
15 "academic rhetoric" unworthy of consideration.

16 **Q. Does Mr. Kahal accurately characterize the results of your analyses?**

17 A. No. Mr. Kahal wrongly asserts (p. 32) that the results of my analyses actually support
18 a return on equity of only 10.0%. However, Mr. Kahal arrives at his conclusion only
19 after discarding the results of my risk premium analyses that incorporate expectations
20 of higher interest rates and mechanically averaging risk premium and DCF cost of
21 equity estimates. As noted earlier, in applying the risk premium approach, it is
22 entirely appropriate to consider widely-anticipated increases in long-term interest

¹⁶ *Orange & Rockland Utilities, Inc.*, Initial Decision, 40 FERC ¶ 63,053, 1987 WL 118,352 (F.E.R.C.).

1 rates over the period when rates establishing in this proceeding will be in effect. Mr.
2 Kahal's suggestion that the results of alternative quantitative methods should simply
3 be averaged together, without the benefit of informed judgment, is similarly flawed.
4 As discussed in detail in my direct testimony and earlier here, there is considerable
5 evidence to suggest that DCF cost of equity estimates for electric utilities are
6 downward-biased and should be accorded less weight. Mr. Kahal's interpretation
7 ignores this reality and understates investors' required return. Finally, Mr. Kahal
8 ignores the evidence presented in my direct testimony concerning the potential
9 challenges facing FPL and the need to support FPL's ability to attract capital under
10 adverse circumstances, which justify a return for FPL from the upper half of the
11 proxy group results.

12 **Q. Do you agree with Ms. Dismukes that Dr. Woolridge's cost of capital should be**
13 **used as the basis for the costs charged to FPL by FiberNet?**

14 **A.** No. First, Dr. Woolridge's cost of capital is not an acceptable estimate of the cost of
15 capital for FPL for the reasons I have discussed above. Moreover, the services being
16 priced are telecommunications services, not electric utility services. The cost of
17 capital for telecommunications services is generally regarded as higher than for
18 electric utility services, particularly for competitive local exchange companies such as
19 FiberNet. For example, the FCC has been using a before-tax 11.25% benchmark rate

1 of return for regulatory purposes since 1990.¹⁷ I was a witness in the FCC case that
2 originally established the before-tax 11.25% return and have participated in
3 subsequent proceedings at the FCC to review the prescribed rate of return, which has
4 been unchanged and remains effective for purposes such as universal service fund
5 payments in Florida and elsewhere in the United States. Another benchmark for the
6 return appropriate for telecommunications is the unbundled network elements cost of
7 capital found by the FPSC. For example, in Order PSC-03-0058-FOF-TP issued on
8 January 8, 2003, the FPSC found a cost of capital for Sprint unbundled network
9 elements in Florida of 9.86%.¹⁸ As shown on Document WEA-13, with the
10 appropriate gross-up for taxes, the Sprint rate is 14.19% and the FCC rate is 15.89%.
11 This gross-up is necessary because FiberNet does not charge separately for income
12 tax expense. Accordingly, when either of these benchmark costs of capital approved
13 by regulatory authorities is grossed up for taxes, the cost exceeds the 13.97% used by
14 FiberNet in its billings to FPL. Therefore, the cost of capital used in FiberNet's
15 billings for telecommunications services to FPL is reasonable.

16 **Q. Did Intervenors recognize the need to consider flotation costs in setting a fair**
17 **rate of return?**

18 A. While Mr. Kahal included a 10 basis-point upward adjustment for flotation costs, Mr.
19 Baudino ignored this component of a fair rate of return. Meanwhile, Dr. Woolridge

¹⁷ *In the Matter of Represcribing the Authorized Rate of Return for Interstate Services of Local Exchange Carriers* (CC Docket No. 89-624), Released December 7, 1990; Adopted September 19, 1990; As Corrected December 21, 1990). While the FCC did not specify the component costs and capital structure, it did suggest in footnote 311: "The implied return on equity is 13.2%. That is, a company with an embedded cost of debt of 8.8% and a capital structure of 44.2% debt/55.8% equity that earned 11.25% overall return on capital would have a return on equity of 13.2%."

¹⁸ In re: Investigation into pricing of unbundled network elements (Sprint/Verizon track).

1 argued (p. 55) that flotation costs “are one-time expenses which are incurred when a
2 Company sells additional stock,” and should only be included on a prospective basis
3 for new equity issues.

4 **Q. Is Dr. Woolridge’s position consistent with financial realities and the views of
5 other practitioners?**

6 A. No. The need for a flotation cost adjustment to compensate for past equity issues is
7 recognized in the financial literature. In a *Public Utilities Fortnightly* article, for
8 example, Brigham, Aberwald, and Gapenski demonstrated that even if no further
9 stock issues are contemplated, a flotation cost adjustment in all future years is
10 required to keep shareholders whole, and that the flotation cost adjustment must
11 consider total equity, including retained earnings.¹⁹ Similarly, *Regulatory Finance:
12 Utilities’ Cost of Capital* contains the following discussion:

13 Another controversy is whether the underpricing allowance should still
14 be applied when the utility is not contemplating an imminent common
15 stock issue. Some argue that flotation costs are real and should be
16 recognized in calculating the fair rate of return on equity, but only at
17 the time when the expenses are incurred. In other words, the flotation
18 cost allowance should not continue indefinitely, but should be made in
19 the year in which the sale of securities occurs, with no need for
20 continuing compensation in future years. This argument implies that
21 the company has already been compensated for these costs and/or the
22 initial contributed capital was obtained freely, devoid of any flotation

¹⁹ Brigham, E.F., Aberwald, D.A., and Gapenski, L.C., “Common Equity Flotation Costs and Rate Making,” *Public Utilities Fortnightly*, May, 2, 1985.

1 costs, which is an unlikely assumption, and certainly not applicable to
 2 most utilities. ... The flotation cost adjustment cannot be strictly
 3 forward-looking unless all past flotation costs associated with past
 4 issues have been recovered. (p. 175)

5 **Q. Can you provide a simple numerical example illustrating why a flotation cost
 6 adjustment is necessary to account for past flotation costs?**

7 A. Yes. The following example demonstrates that investors will not have the
 8 opportunity to earn their required rate of return (*i.e.*, dividend yield plus expected
 9 growth) unless an allowance for past flotation costs is included in the allowed rate of
 10 return on equity. Assume a utility sells \$10 worth of common stock at the beginning
 11 of year 1. If the utility incurs flotation costs of \$0.48 (5% of the net proceeds), then
 12 only \$9.52 is available to invest in rate base. Assume that common shareholders'
 13 required rate of return is 11.5%, the expected dividend in year 1 is \$0.50 (*i.e.*, a
 14 dividend yield of 5%), and that growth is expected to be 6.5% annually. As
 15 developed below, if the allowed rate of return on common equity is only equal to the
 16 utility's 11.5% "bare bones" cost of equity, common stockholders will not earn their
 17 required rate of return on their \$10 investment, since growth will really only be
 18 6.25%, instead of 6.5%:

<u>Year</u>	<u>Common Stock</u>	<u>Retained Earnings</u>	<u>Total Equity</u>	<u>Market Price</u>	<u>M/B Ratio</u>	<u>Allowed ROE</u>	<u>Earnings Per Share</u>	<u>Dividends Per Share</u>	<u>Payout Ratio</u>
1	\$ 9.52	\$ -	\$ 9.52	\$10.00	1.050	11.50%	\$ 1.09	\$ 0.50	45.7%
2	\$ 9.52	\$ 0.59	\$10.11	\$10.62	1.050	11.50%	\$ 1.16	\$ 0.53	45.7%
3	\$ 9.52	\$ 0.63	<u>\$10.75</u>	<u>\$11.29</u>	1.050	11.50%	<u>\$ 1.24</u>	<u>\$ 0.56</u>	45.7%
Growth			6.25%	6.25%			6.25%	6.25%	

19 The reason that investors never really earn 11.5% on their investment in the above
 20 example is that the \$0.48 in flotation costs initially incurred to raise the common

1 stock is not treated like debt issuance costs (*i.e.*, amortized into interest expense and
2 therefore increasing the embedded cost of debt), nor is it included as an asset in rate
3 base.

4 **Q. Can you illustrate how the flotation cost adjustment allows investors to be fully**
5 **compensated for the impact of past issuance costs?**

6 A. Yes. As discussed in my direct testimony, one method for calculating the flotation
7 cost adjustment is to multiply the dividend yield by a flotation cost percentage. Thus,
8 with a 5% dividend yield and a 5% flotation cost percentage, the flotation cost
9 adjustment in the above example would be approximately 25 basis points. As shown
10 below, by allowing a rate of return on common equity of 11.75% (an 11.5% cost of
11 equity plus a 25 basis point flotation cost adjustment), investors earn their 11.5%
12 required rate of return, since actual growth is now equal to 6.5%:

<u>Year</u>	<u>Common Stock</u>	<u>Retained Earnings</u>	<u>Total Equity</u>	<u>Market Price</u>	<u>M/B Ratio</u>	<u>Allowed ROE</u>	<u>Earnings Per Share</u>	<u>Dividends Per Share</u>	<u>Payout Ratio</u>
1	\$ 9.52	\$ -	\$ 9.52	\$10.00	1.050	11.75%	\$ 1.12	\$ 0.50	44.7%
2	\$ 9.52	\$ 0.62	\$10.14	\$10.65	1.050	11.75%	\$ 1.19	\$ 0.53	44.7%
3	\$ 9.52	\$ 0.66	<u>\$10.80</u>	<u>\$11.34</u>	1.050	11.75%	<u>\$ 1.27</u>	<u>\$ 0.57</u>	44.7%
Growth			6.50%	6.50%			6.50%	6.50%	

13 The only way for investors to be fully compensated for issuance costs is to
14 include an ongoing adjustment to account for past flotation costs when setting the
15 return on common equity. This is the case regardless of whether or not the utility is
16 expected to issue additional shares of common stock in the future.

1 Q. Dr. Woolridge (p. 55) and Mr. Kahal (p. 40, lines 6-15) suggest that the FPSC
2 adopt an accounting treatment for the recovery of flotation costs. Are there any
3 concerns that the Commission should be aware of?

4 A. Yes. While expensing would be one way of going forward, it would ignore the costs
5 already incurred in connection with past stock issuances. The only practicable means
6 available to ensure that FPL has the opportunity to earn investors' cost of capital is to
7 include an allowance for past flotation costs in arriving at the fair rate of return. This
8 is consistent with treatment of flotation costs at the FPSC in past proceedings.

9 Q. Do you agree with Mr. Kahal's assessment of a reasonable flotation cost
10 percentage?

11 A. No. As noted in my direct testimony, a review of the finance literature indicated that
12 the flotation cost allowance requires an estimated adjustment to the return on equity
13 of approximately 5% to 10%, not the 3% advocated by Mr. Kahal. Moreover, the
14 purpose of the flotation cost adjustment is not to amortize flotation costs over a
15 predetermined schedule. While this is one approach to cost recovery that has been
16 adopted for the financial reporting of debt issuance costs, an equity flotation cost
17 adjustment recognizes that investors are unable to earn a rate of return on the portion
18 of their capital paid out as flotation costs on an ongoing basis.

19 Q. Do you agree with Intervenors that changes in dividend taxation enacted in 2003
20 have led to a significant decline in investors' required rate of return on equity?

21 A. No. While dividend taxation is certainly one factor that may be considered by
22 investors, the impact of changes in dividend taxation on the cost of equity for FPL is
23 unclear. First, the important role that pension funds and tax deferred accounts play in
24 the capital markets dilutes any effect that tax rate changes might have on investors'

1 required rate of return. This is because the reduction in the taxation of dividends has
2 no impact on the returns for tax-free investors. Moreover, as Mr. Kahal noted (p. 8),
3 the current stock prices that formed the basis of my DCF analysis and forward-
4 looking CAPM approach (Document WEA-9), already incorporate any effects of
5 changes in tax policies. Indeed, Mr. Baudino observed (p. 9) that:

6 The stock prices that I use in my cost of equity analyses fully
7 incorporate the effects of the change in tax rates and on the expected
8 returns for utilities.

9 Finally, while Intervenors' claim that changes in dividend taxation suggest that the
10 equity risk premium has declined relative to those indicated by historical studies, this
11 ignores other significant factors that influence required returns. In particular, as a
12 result of events during the past several years, investors' risk perceptions for electric
13 utilities shifted sharply upward, which would more than offset any decline in the
14 equity risk premium due to changes in dividend taxation.

15 **Q. Have Intervenors' considered the impact of their ROE recommendations on**
16 **FPL's financial integrity and ability to attract capital?**

17 A. No. As explained and documented in my direct testimony, in light of challenges in
18 the electric utility industry, investors have refocused attention on regulatory policy.
19 Mr. Baudino recognized the ongoing risks that investors associate with the electric
20 utility industry (pp. 12-13), citing "continued erosion in financial credit measures,
21 increasing business risk, aggressive financial policies, and uncertainty regarding
22 funding of accelerating capital programs."

23 Investors recognize that constructive regulation is a key ingredient in
24 supporting utility credit ratings and financial integrity and it is critical to assure

1 investors' confidence in a balanced approach if financial flexibility and access to
2 capital is to be maintained. As Mr. Baudino specifically noted in his testimony (p.
3 14):

4 S&P currently assigns a negative outlook to FPL Group and its
5 subsidiaries due mostly to pending resolution of regulatory issues,
6 such as the current rate proceeding.

7 However, as documented earlier, Intervenors' ROE recommendations are downward-
8 biased and fall far below investors required rate of return. As a result, their
9 recommendations would compromise investor confidence, as well as FPL's ability to
10 meet the capital requirements and challenges associated with providing electric
11 service in Florida.

12 **Q. Do customers also benefit by enhancing the utility's financial flexibility?**

13 A. Yes. While providing an ROE that is sufficient to maintain FPL's ability to attract
14 capital, even under duress, is consistent with the economic requirements embodied in
15 the Supreme Court's *Hope* and *Bluefield* decisions, it is also in customers' best
16 interests. Ultimately, it is customers and the service area economy that enjoy the
17 benefits that come from ensuring that the utility has the financial wherewithal to take
18 whatever actions are required to ensure a reliable electric service. By the same token,
19 customers also bear a significant burden when the ability of the utility to attract
20 necessary capital is impaired and service quality is compromised.

21 Given the social and economic importance of reliable electricity service in
22 South Florida, which is one of the fastest growing areas in the nation, it is imperative
23 that the FPSC continue to support recovery of reasonable capital costs such that FPL
24 may invest in its system and maintain reliable and economical service to all

1 customers. To his credit, Mr. Kahal specifically noted (p. 39) that “[p]rojections of
2 increases in capital costs,” would warrant an expansion of the ROE range. Financial
3 flexibility is particularly crucial in today’s electric power industry, where changes can
4 come at a blistering pace or, literally, fall from the sky. Recent years are not the only
5 time electric utilities have experienced changes that were both dramatic and
6 unanticipated. In the early 1970’s, electric utilities were generally viewed as the
7 paragon of stability and few, if any observers foresaw a storm looming on the
8 horizon. This favored position evaporated quickly for many electric utilities as the oil
9 embargo, sky-rocketing natural gas prices, and federal legislation mandating
10 conversion from natural gas to alternative fuels swept them from financial strength to
11 crisis in a few short years. To continue to meet potential challenges successfully and
12 economically, it is crucial that FPL receive adequate support for its credit standing.

CAPITAL STRUCTURE

13 **Q. Do you agree with Intervenors that FPL’s requested equity ratio results in a level**
14 **of investment risk that is below that of the proxy group of utilities?**

15 **A.** No. Dr. Woolridge argues that FPL’s lower financial risk “allows for a lower allowed
16 return (p. 11), while Mr. Kahal suggests (p. 13) that the Commission should “take into
17 account the Company’s very heavy equity ratio in setting the Company’s authorized
18 ROE.” However, as I explained in detail in my direct testimony, FPL’s equity ratio
19 alone is not an indicia of investment risk. First, as Mr. Kahal granted (p. 13, lines 6-
20 7), any evaluation of FPL’s capital structure must consider the impact of off-balance
21 sheet debt obligations. Second, a comparison of bond ratings, which provide a
22 widely-referenced and objective guide to overall investment risks, indicates that
23 investors consider FPL’s risks to be comparable to those of the utilities in the proxy

1 group. Moreover, FPL's capital structure reflects the Company's efforts to maintain
2 its financial flexibility and preserve its ability to meet growth and respond to potential
3 uncertainties, and Mr. Kahal agreed with me (p. 12) that the electric utility industry is
4 moving towards higher equity ratios. Finally, the importance of maintaining a
5 relatively conservative financial posture is reinforced by S&P's decision to maintain a
6 "negative" outlook on FPL's ratings, indicating the potential for further declines in the
7 Company's credit standing. Absent its relatively conservative financial policies,
8 FPL's debt ratings would undoubtedly be lower than present levels and the greater
9 investment risks implied by a lower common equity ratio would increase investors'
10 required rate of return for FPL's debt and equity securities.

11 **Q. Do Dr. Woolridge or Mr. Kahal propose any specific adjustment to FPL's ROE**
12 **related to the company's capital structure?**

13 A. No. Ironically, while Dr. Woolridge criticizes me (p. 53-54) for "the lack of a
14 financial risk adjustment," he concludes (pp. 47-48) that "I am not making any
15 explicit downward adjustments to my equity cost rate to reflect the lower financial
16 risk." Similarly, Mr. Kahal elected not to recommend any modification to FPL's
17 capital structure or a specific adjustment to his recommended ROE.

18 **Q. Is there any merit to Dr. Woolridge's criticism of your capital structure**
19 **comparison (Document WEA-12)?**

20 A. No. Dr. Woolridge wrongly asserts (p. 52) that a comparison of FPL's capital
21 structure with the capitalization maintained by other electric utility operating
22 companies is somehow "apples and oranges". In fact, however, reference to other
23 electric utility operating companies provides an "apples to apples" basis for
24 evaluating FPL's capital structure relative to similarly situated companies. In contrast

1 to Dr. Woolridge's erroneous conclusions regarding FPL's capital structure and
2 overall investment risks, my purpose was not to use this comparison to make
3 inferences regarding FPL's relative investment risks vis-à-vis the proxy group, as Dr.
4 Woolridge suggests. As discussed above and in my direct testimony, I looked to
5 credit ratings for an objective measure of overall investment risk perceived by
6 investors. However, in evaluating the reasonableness of FPL's capital structure, these
7 operating electric utilities provide a useful benchmark as to the range of capitalization
8 ratios maintained in the industry.

9 **Q. Is there any justification for Mr. Kollen's recommendation to set FPL's equity**
10 **ratio at the midpoint of S&P's benchmark range for a single-A rating?**

11 **A.** No. First, investors and the rating agencies do not consider capital structure in
12 isolation. Rather, an appropriate capitalization reflects the mix of capital sources
13 required to accommodate the utility's business risks and maintain access to capital
14 and financial integrity. As I noted earlier and in my direct testimony, despite its
15 conservative financial policies, S&P retains a negative outlook on FPL, which
16 indicates the potential for further degradation in the Company's credit standing going
17 forward. If FPL were to lower its equity ratio to the level recommended by Mr.
18 Kollen, the outcome would be swift and predictable – the Company's credit ratings
19 would plunge along with investor confidence. Similarly, adopting such an extreme
20 recommendation would send an ominous signal to investors that would undoubtedly
21 cause them to reevaluate the risks of FPL and other Florida utilities and ultimately
22 lead to significantly higher capital costs. While Mr. Kollen argues that his capital
23 structure recommendation would result in a reduction to FPL's revenue requirements
24 of \$39.3 million, his assessment is short-sighted and fails to consider the damaging

1 consequences that higher capital costs and weakened financial flexibility would have
2 on customers over the longer-term.

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

4 **A. Yes.**

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **FLORIDA POWER & LIGHT COMPANY**

3 **REBUTTAL TESTIMONY OF MORAY P. DEWHURST**

4 **DOCKET NOS. 050045-EI, 050188-EI**

5 **JULY 28, 2005**

6

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

8 A. My name is Moray P. Dewhurst. My business address is 700 Universe
9 Boulevard, Juno Beach, Florida 33408-0420.

10 **Q. Did you previously submit direct testimony in this proceeding?**

11 A. Yes.

12 **Q. What is the purpose of your rebuttal testimony?**

13 A. I will rebut assertions made by various witnesses on behalf of the Florida
14 Office of Public Counsel (OPC), Federal Executive Agencies (FEA), AARP,
15 Commercial Group, Florida Retail Federation (FRF) and the South Florida
16 Hospital and Healthcare Association (SFHHA). My rebuttal testimony will
17 focus on Florida Power & Light's (FPL or Company) appropriate ROE, the
18 Company's request for a 50 basis point performance incentive, the
19 appropriateness of FPL's capital structure, the Company's request for an
20 additional base rate increase for Turkey Point 5, the Company's request for an
21 increase in the storm accrual, and the need for the Company to maintain D&O
22 insurance.

23

RETURN ON EQUITY

1

2 **Q. Do you agree with the return on equity recommendations made by Dr.**
3 **Woolridge, Mr. Baudino or Mr. Kahal?**

4 A. No. I will defer discussion of the analytical flaws in their respective
5 approaches to Dr. Avera. My rebuttal testimony discusses the reasonableness
6 of the overall level of return on equity recommended by these witnesses and
7 the general impact on the Company's financial strength, were the Commission
8 to adopt any of their recommendations.

9 **Q. What do you think the Commission's objectives should be in establishing**
10 **the Company's authorized return on equity?**

11 A. The return on equity should be set at a level that, if achieved by the Company,
12 will induce the level of investment needed to provide reliable electric service
13 and accommodate system growth at the lowest reasonable cost and fairly
14 compensate equity holders for the utilization of their capital.

15 **Q. In your opinion, if the Commission were to adopt the return on equity**
16 **recommendations presented by Dr. Woolridge, Mr. Baudino or Mr.**
17 **Kahal, would those objectives be met?**

18 A. No. The Company must compete for investor capital by offering a reasonable
19 return that is at least as large as the returns available on investments with
20 similar risk profiles. The proposed allowed returns on equity suggested by Dr.
21 Woolridge, Mr. Baudino and Mr. Kahal would be substantially below the
22 returns available to investors on comparable investments and insufficient to
23 maintain access to capital markets at reasonable prices. Both Dr. Woolridge's

1 recommendation for an 8.8% return on equity and Mr. Baudino's
2 recommendation for an 8.7% return on equity would result in the Company
3 receiving the lowest authorized return out of the 700+ major electric, gas or
4 telecommunications proceedings since at least 1990 (the most recent date
5 summarized case data are available for comparison). Even Mr. Kahal's 9.5%
6 recommended mid-point allowed return on equity is below the authorized
7 return on equity for every major electric, gas, and telecommunications
8 proceeding since 1990 except for one base rate proceeding for Jersey Power &
9 Light (Final Order for Docket No. ER02080506, issued May 17, 2004) in
10 which its regulator provided for a 9.5% return on equity. However,
11 significantly, that return involved only the distribution assets of Jersey Power
12 & Light, and reflected a 25 basis point penalty as a "regulatory incentive
13 mechanism" until such time as "the Company provides sufficient evidence to
14 the Board that they have made the necessary improvements required to
15 maintain system reliability". It is quite clear, therefore, that the intervenors'
16 ROE recommendations would not represent a fair and reasonable return
17 opportunity for investors.

18 **Q. What would be the likely consequences for FPL's financial position if the**
19 **intervenors' ROE recommendations were adopted?**

20 A. There would be several significant and adverse consequences to FPL's
21 financial position, which would hurt customers' interests. The most
22 immediate effect would be a significant reduction in operating cash flow and
23 free cash flow. The three percentage point difference between FPL's

1 recommended ROE (excluding the 50 basis point performance incentive) and
2 the recommendations of Dr. Woolridge and Mr. Baudino translates to nearly a
3 \$200 million reduction in annual cash flow. For reference, this is more than
4 10% of projected 2006 operating cash flow for the entire business. This
5 would increase the dependence of the business on access to external funding
6 and would obviously exacerbate the challenge of meeting capital expenditure
7 requirements.

8
9 A second effect would likely be dramatically reduced investor confidence in
10 the Florida regulatory environment. Such a dramatic shift between a
11 regulatory framework that promoted efficiency in operations and provided
12 some measure of regulatory certainty to one that took a company that was
13 operationally among the very best in the industry, and "rewarded it" by giving
14 it the lowest return on equity awarded among any major utility since 1990
15 would seriously reduce investor confidence in the Florida regulatory
16 environment and increase investor perceptions of regulatory risk with respect
17 to other issues. Clearly, this would serve to *increase* the future cost of capital.

18
19 Third, FPL's credit standing would be weakened and credit ratings would
20 likely be lowered. Credit spreads would widen, resulting in immediate losses
21 to debtholders and decreased access to new capital, as well as increases in
22 interest costs. Short-term credit capacity would be substantially decreased,
23 significantly limiting the Company's ability to support the fuel hedging

1 program it manages for the customer's benefit, reducing flexibility in the
2 event of unexpected shocks, and raising costs.

3

4 Fourth, there would be an immediate loss in equity value as well as
5 confidence, a related consequence of which would likely be pressure for an
6 increase in dividends, because the shareholder trade-off between current
7 return (dividend) and future return (capital gain) necessarily would be shifted
8 towards the former. Of course, any increase in dividends needed to maintain
9 equity investor confidence would obviously further exacerbate the cash flow
10 shortfall.

11

12 Ultimately, all these effects would be very detrimental to long-run operating
13 performance, undermining FPL's efforts to support its extensive capital
14 building program while maintaining or improving reliability and customer
15 service. The result would not be in customers' long-run interests.

16 **Q. Intervenors, as part of ROE testimony, have cited FPL's strong financial**
17 **position as reason why FPL has lower risk and should have a lower ROE.**
18 **Do you agree with this characterization?**

19 A. No. These assertions are circular in that a lower ROE would weaken the
20 Company's financial position, thus undermining the very basis of such
21 contentions. A strong financial position should be viewed as an asset rather
22 than a liability. A strong financial position allows the Company to maintain
23 the flexibility to raise capital when needed to meet our service obligations.

1 This position also provides security that provides the ability to absorb
2 unexpected financial shocks. While our current financial position is strong,
3 this is not a given. Adequate allowed return on equity and an appropriate
4 equity ratio underpin our financial strength. Weakening in any of these areas
5 would clearly be perceived by investors as a decline in our overall financial
6 strength. A decline in financial strength introduces greater risk. In turn,
7 investors will require a greater return on their invested dollar.

8

9

ROE PERFORMANCE INCENTIVE

10 **Q. Mr. Larkin and Ms. Brown assert that FPL's requested ROE**
11 **performance incentive is based solely on past performance and, therefore,**
12 **should be rejected. Do you agree with their assertions?**

13 **A.** No, I do not. FPL is not requesting a performance incentive based solely on
14 past performance, although we certainly agree that past performance is one
15 factor that the PSC can look to as an indicator of whether or not an incentive
16 award may be justified. FPL's request is based in large part on its *current*
17 operating and performance statistics. As described in the direct testimonies of
18 others in this case, the Company is *currently* operating at levels significantly
19 above its industry peer group in the areas of reliable service, customer service
20 and overall cost, providing customers with past, present, and future benefits.
21 Nevertheless, such achievements are not accomplished overnight; they reflect
22 a steady record of improvement over many years. To that end, therefore, past
23 performance cannot simply be ignored. A performance incentive that shifts

1 the allowed ROE range up 50 basis points would serve as a positive incentive
2 for the Company to continue its excellent performance as well as an important
3 signal to other companies as to the importance of and the Commission's
4 willingness to recognize performance and service achievements in
5 establishing a utility's rates.

6
7 Clearly, both past and present performance is directly relevant in establishing
8 a reasonable rate of return. A system that does not distinguish between
9 superior and mediocre performance, over time will not tend to promote
10 superior performance. Conversely, a system that recognizes superior
11 performance will tend to improve performance and lower cost over the long-
12 term.

13 **Q. Do you agree with Mr. Larkin's and Mr. Kollen's contention that the**
14 **performance incentive is, in the words of Mr. Kollen, "the quintessence of**
15 **improper retroactive ratemaking" and as Mr. Larkin states that the**
16 **Commission, "cannot look to past performance and use that performance**
17 **to enhance or increase future rates"?**

18 **A.** No. Mr. Larkin and Mr. Kollen appear to be suggesting that the Commission,
19 as a matter of law, cannot approve FPL's requested ROE performance
20 incentive. Regardless of what Mr. Kollen means by "retroactive ratemaking"
21 and Mr. Larkin's frame of reference, my understanding is that the
22 Commission has broad ratemaking authority granted by the legislature in
23 setting just and reasonable rates, including the authority to adjust a company's

1 ROE in recognition of good performance. The Commission has used this
2 authority on several separate occasions. In Order No. PSC-02-0787-FOF-EI,
3 Docket 010949-EI, the Commission provided a 25 basis point ROE incentive
4 to Gulf Power stating:

5 “We find that Gulf’s past performance has been superior and we
6 expect that level of performance to continue into the future. In recognition of
7 this, we find that Gulf deserves to have 25 basis points added to the mid-point
8 ROE of 11.75%. Thus, a 12% ROE shall be used for all regulatory purposes,
9 including, for example, implementing the cost recovery clauses and
10 allowances for funds used during construction.”

11
12 In addition to providing a reward for good performance, the Commission has
13 also used its authority to impose an ROE penalty for poor performance. In
14 Order No. 23573, Docket 891345-EI, the Commission imposed a two year 50
15 basis point penalty on Gulf’s ROE as a result of criminal and unethical
16 conduct of one of its Vice Presidents. In Order Nos. 10557-EI and 9628-EI
17 the Commission granted a 10 basis point adjustment to Gulf Power to reward
18 Gulf’s innovative efforts in the area of energy conservation and to send a
19 message to other utilities to promote conservation.

20 **Q. Have Commissions in other jurisdictions employed similar performance**
21 **incentive plans?**

22 **A.** Yes. FPL’s request for a ROE performance incentive is not predicated on
23 actions in other jurisdictions, but rather on this Commission’s authority under

1 Florida law. Nevertheless, while we have not attempted to conduct a
2 comprehensive search of ROE-based incentive plans in other jurisdictions, we
3 have identified other instances in which retail regulators have provided
4 recognition of good performance in the form of ROE adjustments such as FPL
5 has requested in this proceeding. These instances include:

6 West Penn Power Co: Docket No. R00942986
7 *Pa. Public Utility Commission: Order Issued Dec. 15, 1994*

8
9 The commission decided to add .25% to the company's allowed ROE
10 "to compensate the company for its management performance,"
11 recognizing that the company "has promoted and accomplished cost
12 efficiencies in several operations aspects."
13

14 US West Communications, Inc: Docket No. RPU-93-9
15 *Iowa Utilities Board: Order Issued June 17, 1994*

16
17 Despite the ultimate finding which required a revenue decrease, the
18 Iowa Utilities Board awarded the company a "management efficiency
19 award of 75 basis points added to the return on equity." It claimed that
20 the award was based upon performance related to the company's
21 response to a flood, the merger of operating companies, and the
22 reduction in the number of employees.
23

24 In addition to these specific circumstances, there have been other instances
25 where a utility was awarded an authorized return on equity that was at the
26 upper end of the range of reasonable returns for the purpose of rewarding the
27 Company for its management performance.

28 **Q. Do you agree with Mr. Larkin's and Mr. Dismukes' contentions that the**
29 **Company has already been rewarded through the revenue sharing**
30 **mechanism as a result of increasing revenues and that the Company**
31 **benefited by approximately \$113 million dollars due to refunds of**
32 **revenues?**

1 A. No. Mr. Larkin either misunderstands or has mischaracterized the revenue
2 sharing agreement. The revenue sharing plans approved in 1999 and 2002
3 provided customers with two substantial base rate reductions totaling \$600
4 million and will have resulted in more than \$3.6 billion in savings to
5 customers by the end of this year. In exchange for the ability to enhance its
6 earnings through efficient management, the Company gave up the opportunity
7 for additional earnings potential from unanticipated positive revenue growth -
8 earnings potential that would have been available to it under traditional
9 ratemaking. Revenues above certain thresholds were refunded to customers,
10 thus lowering their effective cost of electricity even further. These refunds
11 amounted to approximately \$226 million of additional customer savings
12 during the terms of the two agreements - revenues that would otherwise have
13 resulted in higher earnings for the Company.

14
15 Far from benefiting from the revenue sharing refund provision, FPL was
16 disadvantaged by it. FPL was willing to agree to this provision only because
17 of other provisions in the agreements – namely the absence of an authorized
18 range for return on equity and the incentive therefore to manage the business
19 for long-run efficiency. In the present circumstances FPL does not enjoy the
20 prospect of operating without an ROE cap and it is as a substitute for the
21 incentives built into the prior agreements that we are proposing the ROE
22 performance incentive.

23

1 Furthermore, what Mr. Larkin's and Mr. Dismukes' positions fail to
2 acknowledge is that many of the efficiencies and productivity improvements
3 will provide savings and value to customers well into the future. Over the
4 long-term, the customer benefits from an operation that can deliver efficient
5 electrical service at a cost that is lower than it otherwise would have been.
6 The 50 basis point performance incentive has been proposed to promote and
7 encourage ongoing high levels of performance.

8 **Q. Is it relevant whether or not the Company has realized any benefits under**
9 **prior revenue sharing agreements?**

10 A. No. Whether or not the Company realizes a benefit through productivity
11 efficiencies achieved during the terms of the revenue sharing plans is not
12 relevant for purposes of determining whether to grant the Company's ROE
13 performance incentive request. FPL's request in the present case is based on
14 its recent and current levels of performance, which translate into direct
15 benefits to customers, and the prospect of motivating continued efforts to
16 improve performance and maintain or improve the Company's relative
17 position. As I stated in my direct testimony, FPL does not dispute that
18 traditional ratemaking regulation provides strong incentives for *adequate*
19 performance. The policy question that we believe the Commission should
20 consider is how to motivate sustained efforts to move beyond "good" or
21 "adequate" and deliver the superior levels of performance that FPL has been
22 able to achieve.

1 **Q. Does the existing regulatory structure that provides for an authorized**
2 **range of return consisting of a band of \pm 100 basis points provide an**
3 **effective performance incentive as argued by Mr. Larkin?**

4 A. No. The \pm 100 basis point band reflects acknowledgement of an inherent
5 amount of variability within a utility's earnings through the normal business
6 cycle, and allows the regulator some flexibility in determining whether to
7 adjust rates, thereby promoting regulatory efficiency. As a practical matter, a
8 100 basis point band above the midpoint provides very little incentive for
9 superior performance, though it may promote some "fine tuning" of the cost
10 structure. It is relevant to note that normal weather variability will cause
11 swings in excess of \pm 80 basis points of ROE. To the extent it does provide
12 any incentive it is, from a policy perspective, a relatively poor one for at least
13 two reasons. First, because it is a normal part of the traditional ratemaking
14 process it is not contingent upon a demonstration of superior performance;
15 therefore, it does not distinguish between average performers and superior
16 performers – it is equally available to both, and therefore does nothing to
17 promote superior performance. Second, perversely, it may actually serve as a
18 disincentive to superior performance, since a company performing well on the
19 cost dimension (operating at or close to the top of its allowed range), or one
20 that has just made some improvement, has no incentive to improve further.
21 As my earlier testimony notes, there are strong incentives built into the
22 traditional ratemaking framework promoting good, average, prudential
23 performance. What is lacking (relative to the incentives inherent in

1 unregulated markets) is the positive incentive to seek to be well above
2 average. Yet the long run benefit to the customer from promoting superior
3 performance can be very large. The ROE performance incentive, awarded at
4 the discretion of the Commission on the basis of superior overall performance,
5 taking into account cost, reliability and customer service, can serve to provide
6 this incentive.

7 **Q. Mr. Larkin argues that FPL's declining cost per customer is due to**
8 **customer growth rather than particular steps taken by the utility. Do you**
9 **agree with his statement?**

10 A. No. While there are modest scale effects in the industry, these are not the
11 principal driver of FPL's excellent unit cost position. Mr. Landon's testimony
12 clearly shows that FPL has a lower cost per customer when compared to other
13 large utilities that enjoy similar scale. Mr. Larkin contends that with the
14 exception of fuel, the cost of providing electric service is essentially fixed,
15 although he provides no data, studies or analysis to support his position. This
16 simply is not the case. Indeed, today in many parts of its service territory FPL
17 faces structurally increasing unit costs to serve new customers. For example,
18 redevelopment in heavily urbanized areas of Miami-Dade and Broward
19 counties necessitate new facilities installed at much higher cost than
20 embedded rates. These challenges are not faced by many utilities with lower
21 growth rates, yet FPL's unit cost performance is superior in spite of the
22 additional handicap.

1 **Q. How are customers benefited by the Commission providing an ROE**
2 **performance incentive?**

3 A. There is no doubt that superior performance produces customer benefits in the
4 form of reliable electric service at lower costs. However, the question that
5 intervenor witnesses all seem to raise is whether there is any correlation
6 between superior performance and the performance incentive requested by the
7 Company. Certainly this is a matter for the Commission's judgment.
8 However, I would note that the Commission has previously endorsed the
9 principle of providing incentives, has approved rate agreements incorporating
10 incentive mechanisms, and has utilized an ROE performance incentive such as
11 FPL is proposing here. Presumably, therefore, the Commission has found that
12 there is such a correlation. Ultimately, the Commission must decide whether
13 as a matter of policy in exercising its ratemaking function it will distinguish
14 between a poor performer, an average performer, and a superior performer. It
15 has done so in the past, and I believe it should do so in this instance for the
16 reasons I have described above.

17

18

CAPITAL STRUCTURE

19 **Q. Do you agree with Mr. Kollen's statement on Page 36, lines 2 through 4,**
20 **that "The Commission should consider FPL on a standalone regulated**
21 **utility basis. On a standalone basis, the FPL common equity ratio should**
22 **be set within the range for a single 'A' utility pursuant to the S&P**
23 **guidelines"?**

1 A. Not entirely. I agree that the Commission should establish a capital structure
2 for FPL that reflects the specific conditions of the utility. However, I do not
3 agree that this should translate mechanically to setting an equity ratio based on
4 the S&P guidelines for a single 'A' rated utility. Rather, I believe the
5 Commission should take into account the totality of FPL's circumstances and
6 set an equity ratio that will allow the company to maintain roughly the same
7 level of financial strength as it and its customers have enjoyed for the past
8 several years. Continuation of the current 55.83% equity ratio will achieve
9 this objective.

10 **Q. Do you agree with Mr. Kollen's assertion that FPL's equity ratio is**
11 **excessive?**

12 A. No. FPL's equity ratio, as adjusted for purchase power obligations, is
13 55.83%; this is only slightly outside the range of 48% to 55% for an S&P 'A'
14 rated utility with a business position of "4." An equity ratio in the upper end
15 of the range is appropriate given FPL's substantial continuing financing
16 requirements to support growth and the necessity of maintaining continuous
17 access to capital, even during times of adverse industry and market conditions.

18 **Q. Do you agree with Mr. Kollen's statement that "...FPL Group Capital is**
19 **extremely highly leveraged" (Page 34, Line 8)?**

20 A. No. Mr. Kollen appears to be basing his statement on a naïve assessment of
21 Generally Accepted Accounting Principles (GAAP) capitalization ratios,
22 which is quite inappropriate for FPL Group Capital's specific circumstances
23 and which fails to take into account several adjustments made by the rating

1 agencies and investment community to FPL Group Capital's capital structure
2 when evaluating credit strength. Similar to the purchase power obligation
3 adjustment made to FPL's capital structure, the investment community and
4 the rating agencies make certain adjustments to FPL Group Capital financial
5 statements when evaluating balance sheet strength. The two largest
6 adjustments are for nonrecourse debt and equity-linked securities.
7 Nonrecourse debt is project debt whose repayment is secured solely by the
8 particular asset financed and the cash flows generated by the project, with no
9 obligation to repay in whole or in part from corporate funds. Consequently,
10 the rating agencies and investment community distinguish and exclude
11 nonrecourse project debt from FPL Group Capital's capital structure in their
12 credit evaluation. Equity-linked securities are issued in conjunction with a
13 forward equity purchase commitment providing for common equity to be
14 issued on a specific date into a variable number of shares of the common stock
15 of the company, with the number of shares depending on the market price at
16 the time specified. These adjustments have a material effect on FPL Group
17 Capital and FPL Group's capitalization. For example, Standard and Poor's
18 deducted approximately \$900 million of project debt in 2004 and assumed the
19 conversion of \$1.1 billion of equity linked debentures to equity when
20 evaluating FPL Group's credit strength. In fact, making appropriate
21 adjustments reduces FPL Group's effective leverage to a level close to FPL's
22 capital structure.

1 **Q. Is FPL Group Capital's leverage at all relevant for the Commission to**
2 **consider in determining a capital structure for FPL?**

3 A. No. Florida Power and Light and FPL Group Capital are two very different
4 businesses. FPL maintains an equity ratio appropriate for its own needs, while
5 FPL Group Capital faces different and in some ways easier circumstances.
6 FPL has an obligation to serve, with substantial near-term unavoidable capital
7 requirements to meet the needs of FPL's rapidly growing customer base.
8 Furthermore, FPL must maintain a strong balance sheet to support its fuel
9 hedging program and ensure quick access to capital and the ability to absorb
10 the temporary balance sheet deterioration caused by items such as fuel under-
11 recoveries and storm fund deficiencies.

12
13 In contrast, FPL Group Capital's portfolio consists of businesses with no
14 similar obligation to serve and operating in markets where credit requirements
15 are quite different. The absence of the obligation to serve provides significant
16 flexibility and management discretion, particularly in the timing of capital
17 expenditures. While FPL is likely to be free cash flow negative for the next
18 several years at least, with little flexibility to delay or defer capital expansion,
19 FPL Group management has the flexibility to increase or decrease FPL Group
20 Capital's commitments to meet changing circumstances. In addition, FPL
21 Group Capital has the further ability to isolate and "walk away" from many of
22 its projects were they to become financially distressed. The failure of one
23 specific project would have no necessary connection to the performance of

1 others within the portfolio; in contrast, FPL is a single, integrated system, the
2 failure of one part of which would necessarily entail devastating consequences
3 for other parts.

4 **Q. What should the Commission conclude from the similarities and**
5 **differences between FPL and FPL Group Capital?**

6 A. FPL Group Capital's circumstances and capital structure is different from
7 FPL's and not relevant to FPL's situation. The Commission should determine
8 a capital structure for FPL that is appropriate for its unique circumstances.

9 **Q. Do you agree with Mr. Kollen's proposed adjustment to FPL's capital**
10 **structure?**

11 A. No. The capital structure that is currently in place at FPL is appropriate: it is
12 well received by the capital markets, as evidenced by FPL's current credit
13 ratings and overall credit profile, as well as the tight trading spreads of FPL
14 bonds; and it provides the financial flexibility and resilience needed for FPL's
15 rapidly growing peninsula service territory. It would be unwise for the
16 Commission to weaken the Company's financial strength in a period where
17 liquidity and capital access are more important than ever. It is important for
18 the Company to maintain a strong equity ratio given its high growth service
19 territory and exposure to temporary funding requirements for fuel costs and
20 storm expenses which creates more variability in capital requirements. It has
21 been and continues to be appropriate for FPL's circumstances.

22 **Q. Is an adjustment necessary to reflect the effect of parent debt on federal**
23 **corporate income tax in accordance with Rule 25-14.004(3)?**

1 A. No. Rule 25-14.004 contemplates tax benefits generated by the parent
2 company of a utility subsidiary that has issued debt and invested equity in its
3 subsidiary. FPL Group, Inc., the parent company of FPL, has not issued any
4 such debt. In addition, Rule 25-14.004(3) does not contemplate making an
5 adjustment to a consolidated capital structure. This section specifically
6 excludes the retained earnings of subsidiaries from the capital structure of the
7 parent. This required exclusion results in a non-consolidated equity value for
8 the parent company. Therefore, any debt related to this rule must be debt of
9 the non-consolidated parent company.

10

11

COST OF DEBT

12 **Q. Both Mr. Kahal and Mr. Woolridge suggest an adjustment to the cost**
13 **rate to be applied to prospective long-term debt issues during the forecast**
14 **period. Do you agree with their adjustments?**

15 A. No. Mr. Kahal cites "current market data and recent cost of debt experience,"
16 and Mr. Woolridge cites "current yields on these bonds (30-year A-rated
17 public utility bonds) as well as the recent trends in interest rates," as the basis
18 of their cost of debt assumptions.

19

20 The problem with their approach is that setting debt cost assumptions at
21 current rates in a rising interest rate environment will ensure that the Company
22 does not fully recover its financing costs. FPL based its interest rate
23 assumptions for the test year on the projected rates in the December 2004

1 edition of Blue Chip Financial Forecasts (Blue Chip). Blue Chip is an
2 independent survey that polls approximately 50 of the top economists'
3 projections for U.S. and foreign interest rates, currency values and various
4 economic indicators. Projections are presented for each contributor as well as
5 a top 10 average, bottom 10 average and consensus. FPL utilizes the
6 consensus forecast for long-term corporate bonds as the best estimate of future
7 debt cost rates. This provides the best estimate of what actual financing costs
8 are likely to be in the test year.

9
10 While the Company's original cost of debt projections were based on
11 projections from the Blue Chip December 2004 edition, the June 2005 edition
12 continues to anticipate bond yields will rise significantly over the 2005-2006
13 period covered by its projections.

14
15 **2007 ADJUSTMENT FOR TURKEY POINT UNIT 5**

16 **Q. Mr. Selecky has testified that the Commission should not approve an**
17 **adjustment for the revenue requirements for Turkey Point 5 because**
18 **FPL's projected return on equity for 2007 of 11.5% is within the range of**
19 **return on equity requested in this proceeding. Do you agree?**

20 **A.** No. One of the outcomes of a rate proceeding is the establishment of revenue
21 requirements that will enable the Company to recover the cost of providing
22 electric service and provide the Company with the opportunity to earn a fair
23 rate of return on its investment. If rates are set to meet these conditions in

1 2006 then they cannot possibly meet that condition in 2007 and beyond, since
2 the addition of Turkey Point 5 will add to the revenue requirements such a
3 large, discrete amount as to push the earned return down to the bottom end of
4 the proposed range, *ceteris paribus*. If, for example, x% is determined to be a
5 fair and reasonable rate of return for the rate effective year, then building a
6 rate structure knowing that in the following year the earned rate of return will
7 drop by over 60 basis points due solely to the addition of only a partial year of
8 the revenue requirements associated with the commercial operation of a new
9 low cost generating facility, in my view does not provide a meaningful
10 opportunity to earn a fair and reasonable rate of return. The fact that the
11 outcome might still be within the ± 100 basis point band is not relevant
12 because the band is established with the expectation that currently unknown
13 factors are as likely to be positive as negative. In this case, there is an
14 immediate and known bias toward the bottom of the range.

15
16 Systematically handicapping this relationship such that the only way the
17 Company can hope to reach its allowed rate of return is through the fortuitous
18 development of currently unknown but positive factors is not consistent with
19 the purpose of ratemaking. The addition of Turkey Point 5 is a significant
20 known and measurable investment with substantial operating and financing
21 costs that are not reflected in FPL's projections for 2006. Further, Turkey
22 Point 5 will have an immediate, substantial, negative impact on FPL's
23 earnings in 2007. A material reduction in ROE in the year following a rate

1 case should not be the result of the successful completion of the least cost
2 generation alternative approved by the Commission to meet the needs of
3 FPL's customers.

4 **Q. If the Company is still earning within its authorized range for return on
5 equity, how would it be harmed?**

6 A. FPL's earned return on equity in 2007 will be materially lower due to the
7 construction of Turkey Point 5 than it would have been had the 2007 need
8 been met through purchased power. If the 2007 need were met through
9 power purchases, the Company would seek recovery of capacity payments
10 through the Capacity Clause and earned returns would not be impacted.
11 Failure to provide an adjustment to base rates in 2007 for Turkey Point 5
12 effectively penalizes the Company for delivering to customers the least cost
13 alternative for meeting their needs. The $\pm 1\%$ range around the established
14 ROE is to accommodate unknown or unpredictable factors that may affect
15 future results. The impact of Turkey Point 5 is known and predictable.

16 **Q. Mr. Larkin suggests at page 6 of his direct testimony that the costs of
17 additional capacity can be added through a capacity adjustment clause
18 and thus not affect FPL's average base rate cost per customer. Do you
19 agree with his statement?**

20 A. There is no debate that capacity costs recovered through the fuel and
21 purchased power cost recovery clause do not affect the average base rate cost
22 per customer and would not require a base rate increase. They still, of course,
23 affect the total rate that the customer sees. But unless Mr. Larkin is

1 suggesting that the cost of self build options, determined by the Commission
2 to be the low cost option, also could be recovered through the fuel and
3 purchased power cost recovery clause, his point only emphasizes the bias that
4 could exist in favor of purchased power if the Commission fails to properly
5 reflect the costs of a low cost self-build resource option in the Company's base
6 rates in timely fashion. While I agree that purchasing power is an option, it is
7 not always the best available option, as has been confirmed in the last two
8 Commission Need Determination proceedings, resulting in capital
9 expenditures by FPL in excess of \$1.4 billion that are not being recovered
10 through the fuel and purchased power cost recovery clause. The majority of
11 additional capacity added by FPL consists of lower cost repowerings and the
12 construction of new plants that the Commission agreed were more cost-
13 effective from the customers' perspective than any available power purchases.
14 These capacity additions all require significant investment. Mr. Larkin's
15 theory simply does not apply to FPL's actual circumstances.

16 **Q. How will customers benefit from the construction of Turkey Point 5?**

17 **A.** Turkey Point 5 was determined by the Commission to be the least cost option
18 to satisfy the increased need for generation for FPL's customers. In Order No.
19 PSC-04-0609-FOF-EI, the Commission found that "Final cost comparisons
20 from the RFP evaluation demonstrated that Turkey Point 5 offered a \$271
21 million (cumulative present value revenue requirements, CPVRR) advantage
22 compared to the next most competitive proposal. An independent evaluation
23 confirmed FPL's conclusions. Turkey Point 5 is FPL's best, most cost-

1 effective alternative for meeting the 2007 needs of FPL's customers." Among
2 other benefits, Turkey Point 5 will reduce the fuel component of customers'
3 bills by displacing older, less efficient units for many hours of the year.

4 **Q. Mr. Larkin argues that the adjustment for Turkey Point 5 is not**
5 **consistent with ratemaking principles in general and, specifically,**
6 **principles applied in Florida. Do you agree with this assessment?**

7 A. No. I have indicated above why it is obviously inconsistent with ratemaking
8 principles in general not to include the adjustment. In addition, my
9 understanding is that the Florida Legislature has specifically provided for such
10 an adjustment. Section 366.076, F.S. (2003) explicitly provides that the
11 Commission may consider adjustments to base rates in limited scope
12 proceedings. The Commission has exercised that authority in the past. For
13 example, the Commission has allowed for incremental rate increases for
14 Florida Power & Light in 1982 (Docket No. 820097-EU) and 1983 (Docket
15 No. 830465-EI). On page 39 of Order No. 11437, Docket No. 820097-EU,
16 the Commission reasoned that requiring the utility to initiate another full
17 revenue requirements case merely to place this plant in rate base would
18 involve significant regulatory lag detrimental to the utility and substantial
19 amounts of unnecessary rate case expense to be borne by customers. The
20 Commission also previously has approved an additional base rate increase for
21 Florida Progress Energy, then Florida Power Corporation, 30 days after the
22 commercial operation of its Crystal River Unit 5 plant. Docket No. 830470-
23 EI, Order No. 13771.

1 **Q. Messrs. Selecky and Kollen suggest that FPL should be directed to file for**
2 **a rate increase closer to the time that Turkey Point 5 is placed into**
3 **service. Why is FPL filing for this limited scope adjustment now?**

4 A. Addressing Turkey Point 5 within the context of the current base rate
5 proceeding is much more efficient. FPL's 2006 test year, which permits a
6 thorough and detailed review of all FPL's costs, ends only six months from
7 the projected in-service date of Turkey Point 5. A subsequent rate proceeding
8 so close to the conclusion of the current proceeding will provide little new
9 information. Given the cost and resources necessary to prepare for a full
10 requirements rate proceeding, we believe it is prudent to address the Turkey
11 Point 5 adjustment within the current proceeding. Additionally, by Order No.
12 11437, the Commission recognized that a limited scope adjustment is more
13 efficient, as a full revenue requirements case would involve substantial
14 amounts of unnecessary rate case expenses.

15 **Q. Mr. Kollen argues that the 2007 adjustment for Turkey Point 5 should be**
16 **denied because the projected data for 2007, "fails to consider the effect of**
17 **the Commission's decisions on the various issues related to the 2006 test**
18 **year and the Company's real-world responses to those decisions." Do you**
19 **think that this is a reasonable basis for disallowing the adjustment?**

20 A. No. Mr. Kollen states that "if the Commission determines that the Company's
21 requested O&M expense is excessive in the 2006 test year and the Company
22 responds by reducing O&M expense, then that benefit also would be achieved
23 in 2007 and the twelve months ending May 31, 2008, thus reducing the

1 revenue requirements in those two periods.” While I agree with Mr. Kollen’s
2 statement that revenue requirements would be lower in those two periods, he
3 fails to recognize the obvious fact that base revenues will also be lower in
4 those two periods if O&M costs were to be excluded in determining revenue
5 requirements for 2006, with no net impact on FPL’s expectations of earnings
6 or ROE. The projected return on equity for 2007 assumes the 2006 rate
7 request is approved. If a portion of O&M is disallowed in this proceeding and
8 FPL’s base revenue request is reduced, earned returns in 2007 will be lower,
9 all other things equal. The best outcome for the Company if it does lower
10 costs is an 60 basis point drop in earnings due solely to implementing the
11 lowest cost resource option in the form of Turkey Point 5. The issues Mr.
12 Kollen has raised are quite simply irrelevant to the Turkey Point decision.

13 **Q. Messrs. Larkin and Kollen have questioned the reliability of the**
14 **projected data for the Turkey Point 5 adjustment. What evidence have**
15 **they provided to support this assertion?**

16 **A.** None. Messrs. Larkin and Kollen have made broad statements regarding the
17 reliability of the projections. They have not provided any relevant testimony
18 as to why the projections are unreliable. Certainly they did not participate in
19 the Commission’s Determination of Need proceeding for Turkey Point 5. The
20 costs and associated revenue requirements for Turkey Point 5 can be, and
21 have been, reasonably estimated. As discussed by Mr. Yeager, there is a high
22 degree of certainty regarding the projected cost of Turkey Point 5 since FPL
23 has contracts in place for major equipment and Engineering, Procurement &

1 Construction, and it is highly unlikely the costs associated with these contracts
2 will change. These contracts represent the vast majority of construction costs
3 associated with the new unit.

4 **Q. Is Mr. Larkin's claim that the 2007 adjustment for Turkey Point should**
5 **be denied because the addition will generate \$289 million of additional**
6 **revenue reasonable?**

7 A. No. Generally speaking, Mr. Larkin's analysis is flawed because revenue is
8 not derived by taking the maximum output of the unit adjusted by a capacity
9 factor and multiplied by an average rate. Revenue is a function of the number
10 of customers and their usage. Those factors are reflected in the Company's
11 forecasts sponsored by Dr. Green and are included in the overall revenue
12 requirements analysis of this case. By itself, the addition of Turkey Point 5
13 adds no revenue. Instead, it ensures that FPL can meet its commitment to
14 maintain a 20% reserve margin and sustain high system reliability. Mr.
15 Larkin's analysis also fails to recognize that there are transmission,
16 distribution and administrative costs associated with serving incremental
17 customer load.

18

19

STORM ACCRUAL

20 **Q. Are you surprised that each of the intervenors had a different**
21 **recommendation regarding the annual storm accrual amount and a**
22 **target reserve?**

1 A. No, not at all. It is likely that if five more witnesses had offered testimony,
2 we would have received five additional recommendations that differed. As I
3 indicated in my direct testimony, there is no precisely correct level either for
4 the annual accrual or the reserve. However, I believe the appropriate annual
5 accrual amount and target reserve level should be set so that they are
6 consistent with the Commission's long-standing policies. For reasons
7 explained in my direct testimony, FPL's proposal is consistent with the
8 Commission's past approach to storm cost recovery.

9 **Q. Please summarize your understanding of the Commission's policy on the**
10 **appropriate reserve balance and annual accrual.**

11 A. The Commission's policy, as articulated in Order No. 95-0264-FOF-EI, is to
12 determine a target reserve balance that is sufficient to protect against most
13 years' storm restoration costs but not the most extreme years. Such a level
14 should reduce FPL's dependence on a relief mechanism such as a special
15 customer assessment. The annual accrual should be set large enough to allow
16 the reserve to build modestly in year's of "normal" hurricane activity, yet low
17 enough to prevent unbounded storm fund growth.

18 **Q. Do you agree with Mr. Kollen's recommendation to recover the expected**
19 **annual storm damage expense of \$73.7 million and to target an average**
20 **\$0 storm damage reserve amount?**

21 A. No. This would be inconsistent with prior Commission orders. The
22 Commission explicitly considered and rejected this approach in Order No. 95-
23 0264-FOF-EI. If a storm fund reserve balance did not exist, the Company

1 would have to rely on emergency relief mechanisms in the event of every
2 major weather event. Emergency relief mechanisms, such as a special
3 customer assessment, tend to create volatility in a customer's bill. The
4 Commission has previously recognized that this is undesirable, since tropical
5 storms and hurricanes are a regular hazard of life in Florida.

6 **Q. Mr. Stewart performs an analysis to determine the impact on the Storm**
7 **Reserve Fund if a \$120 million annual storm accrual had been**
8 **implemented in 1990. Do you agree with his analysis?**

9 A. No. Mr. Stewart's analysis is fundamentally flawed and irrelevant to FPL's
10 current circumstances. The circumstances today are so different compared
11 with 1990 that any analysis that assumes a \$120 million accrual commencing
12 in 1990 is meaningless. First, no one would have suggested a \$120 million
13 accrual at that time. T&D insurance coverage was still available at a
14 reasonable cost, and the reserve balance was not \$0. Second, it is highly
15 unlikely that FPL's reserve balance would ever have gotten as high as \$1.48
16 billion in 2003 as Mr. Stewart suggests. Both the fund level and annual
17 accrual are the subject of annual reports and would have been reconsidered in
18 the intervening years. In any event, a hypothetical and counter-factual re-
19 casting of history is irrelevant to today's circumstances and FPL's current
20 proposal, particularly in light of the Commission's ability to continue to
21 monitor the level of the fund.

22 **Q. A few of the intervenors (Ms. Brown, Mr. Stewart, and Ms. Merchant)**
23 **recommend an annual accrual ranging from \$20 million to \$40 million to**

1 **recover the smaller Category 1 or 2 storms, and they propose that storm**
2 **securitization or a surcharge could be used to recover any negative**
3 **balances in the storm reserve. Do you agree with their**
4 **recommendations?**

5 A. No. With an annual accrual of \$120 million, as proposed by FPL, and
6 assuming five years of “good” storm loss experience (storm costs averaging
7 \$15 million - \$20 million per year) the target reserve level of \$500 million
8 would be reached in approximately five years. Consistent with prior
9 Commission orders, FPL believes that a reserve balance is appropriate, as it
10 would not be good public policy to continually recover negative balances
11 through special customer assessments, since they create volatility in customer
12 bills. While FPL is pleased with the passage of the Securitization Bill, that
13 potentially will provide the Commission with another alternative to fund
14 storm costs, it cannot yet be relied upon as a viable option.

15 **Q. Why do you feel securitization cannot yet be relied upon as a viable**
16 **option?**

17 A. First, the funding of securitization bonds is a lengthy process. The Company
18 needs a plan in place now to alleviate future storm costs. At a minimum, the
19 securitization process takes approximately six to nine months, so it will not be
20 completed this year. Second, there is a major unresolved tax issue for
21 securitization. Appropriate tax treatment from the Internal Revenue Service is
22 necessary to make recovery through securitization an economically viable
23 option for FPL and its customers. Specifically, the IRS must confirm that the

1 issuance of the financing order will not be a taxable event. FPL cannot
2 predict whether the IRS will grant the necessary tax treatment. Third, the
3 Commission would have to act on a financing petition filed by FPL. While
4 we are confident the Commission would look favorably on a prudent
5 financing petition, we are not yet in a position where we can submit one.
6 Accordingly, FPL believes it is appropriate to set an annual accrual assuming
7 the existing regulatory framework and modify this value if and when
8 securitization is a reality.

9 **Q. Assuming the Company receives the necessary tax treatment, the**
10 **Company completes the whole process, and securitization becomes a**
11 **reality in a year or so, do you feel you still need to collect a \$120 million**
12 **annual accrual?**

13 A. If securitization becomes a reality, and assuming the securitization charges
14 were reflected as a separate line item on the customers' bills and a target
15 reserve level of approximately \$500 million were re-established, it would be
16 appropriate to reduce FPL's proposed accrual to some degree. However, I
17 believe this can be addressed if and when the occasion arises in a limited
18 scope proceeding. For now, FPL and this Commission must deal with today's
19 reality, which is that the storm reserve is essentially depleted and must be
20 rebuilt through accruals from base rates. FPL and the Commission must
21 implement rates today that allow FPL to begin to replenish the storm damage
22 reserve, while moving toward a reasonable target given current expected

1 annual losses, as there are no guarantees that the funding of securitization
2 bonds will be completed.

3

4 **DIRECTOR'S AND OFFICER'S LIABILITY INSURANCE**

5 **Q. Do you agree with Ms. DeRonne's recommendation to remove the cost of**
6 **Directors and Officers (D&O) liability insurance from FPL's**
7 **jurisdictional O&M costs?**

8 **A.** No. Subsequent to the 2002 passage of Sarbanes Oxley and in light of
9 changing court standards, it is more important than ever for public companies
10 to maintain adequate D&O coverage. D&O liability insurance is a necessary
11 cost of doing business and as such should be reflected in FPL's base rates.
12 Simply stated, by law a corporation must have directors and officers. In
13 today's environment of increased scrutiny and exposure with respect to
14 corporate governance, the risk of liability to directors and officers has
15 increased considerably. Practically speaking, a company could not attract
16 competent, capable officers or directors without D&O liability insurance.
17 Thus, D&O insurance is a cost of business for any corporation. According to
18 a 2004 D&O Liability Survey, done by the Tillinghast business of Towers
19 Perrin, 99 percent of U.S. participants reported purchasing D&O insurance
20 coverage. Certainly, no company of FPL's size would be without such
21 coverage.

22 **Q. On page 18 of her direct testimony, Witness DeRonne states, "The**
23 **purpose of D&O liability insurance is to protect shareholders from the**

1 **shareholders' own decisions...The cost associated with the protection of**
2 **the shareholders' investment should be born by shareholders.” Do you**
3 **agree with her claim?**

4 A. No. The purpose of D&O insurance is to enable the Company to attract and
5 retain qualified, capable directors and officers, without which FPL's
6 performance would surely not be as good as it is and without which it might
7 literally be unable to function over time. This is clearly of direct benefit to
8 customers. Unfortunately, the cost of providing reasonable protection to
9 ensure that directors and officers who prudently and faithfully fulfill their
10 obligations are protected adequately is greater today than it was a few years
11 ago.

12 **Q. Please explain why FPL's directors' and officers' insurance (D&O**
13 **insurance) premiums increased substantially between 2002 and 2003 and**
14 **again from 2003 to 2004?**

15 A. In 1998, FPL was successful in negotiating a 3-year fixed cost program with a
16 3-year single aggregate limit, at rates which we believe were well below
17 market at the time. The three-year single aggregate limit meant that only a
18 single limit would be available for all claims arising during that 3-year period
19 as compared to the normal situation where a new limit is purchased for each
20 year, which helped keep the premium low. In both 2001 and 2002, FPL was
21 successful in extending the 1998 program for additional years. By the end of
22 this program in 2003, there had been a single limit available for all claims
23 arising during the 5-year period of 1998 through 2002. The total premium for

1 this period was about \$3.6 million, or an average of a little over \$700,000 a
2 year.

3

4 With the 2003 renewal, two things occurred. First, the market for D&O
5 insurance changed sharply from its unprecedented low pricing of the prior 5
6 years or so and there were very significant price increases. Secondly, the
7 market ceased offering multi-year aggregate limit programs and insisted on
8 selling only a new fresh limit in each of the years since.

9

10 The result of these two changes was that FPL went from paying below-market
11 rates to a position much more typical of others in the industry, paying \$6
12 million for its D&O program which renewed in 2003 for single year limits of
13 \$170 million. In contrast, for limits of \$190 million applicable to the prior 5-
14 year period mentioned above, FPL had paid a total of \$3.6 million. In 2004,
15 the premium increased again to \$8 million reflecting a continuing worsening
16 of the general D&O market.

17

18 While the large percentage increase is unfortunate, the current actual cost of
19 D&O is more in-line with the longer term record than was the abnormally low
20 cost of the 1998-2002 period. For example, in 1987, the premium was \$6.0
21 million, or \$10.0 million in current dollars, even though the company was
22 then much smaller (size is a major driver of overall D&O cost). In 1993, the
23 premium was \$3.7 million or \$4.8 million in current dollars- again, for a much
24 smaller company. Adjusted for size and inflation, today's D&O rates are
25 comparable to 1993 and well below those of 1987.

1 With each insurance renewal, FPL seeks the most competitive insurance
2 pricing available. With a volatile market like D&O, this will inevitably
3 translate into large fluctuations in insurance premiums. The overall D&O
4 market is much tighter today for cyclical reasons and, just as important, has
5 experienced secular increases due to changing legal standards and the effects
6 of the Sarbanes-Oxley Act of 2002 and related changes in corporate
7 governance. FPL has been affected by these changes, but we believe the
8 premiums we are now paying are competitive with those incurred by other
9 comparably sized companies in our industry.

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

11 A. Yes.

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **FLORIDA POWER & LIGHT COMPANY**

3 **REBUTTAL TESTIMONY OF ROSEMARY MORLEY**

4 **DOCKET NOS. 050045-EI, 050188-EI**

5 **JULY 28, 2005**

6

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

8 A. My name is Rosemary Morley. My business address is 9250 West Flagler
9 Street, Miami, Florida, 33174.

10 **Q. Did you previously submit direct testimony in this proceeding?**

11 A. Yes.

12 **Q. Are you sponsoring an exhibit to your rebuttal testimony?**

13 A. Yes. I am sponsoring an exhibit consisting of seven documents, RM-11
14 through RM-17, which is attached to my rebuttal testimony.

15 **Q. What is the purpose of your rebuttal testimony?**

16 A. The purpose of my rebuttal testimony is to address testimony from the
17 following witnesses: Mr. Stephen J. Baron on behalf of the South Florida
18 Hospital & Healthcare Association (SFHHA), Mr. James T. Selecky on
19 behalf of the Commercial Group, and Dr. Dennis W. Goins on behalf of the
20 Federal Executive Agencies (FEA). I also discuss, to a lesser extent, the
21 panel testimony of Ms. Teresa Civic and Mr. Jess Galura on behalf of the
22 Commercial Group. The issues discussed in my rebuttal testimony include
23 the cost of service methodology, the allocation of the revenue increase, the
24 rate treatment for the GSD-1, GSLD-1, and GSLD-2 rate classes, the

1 Commercial/Industrial Load Control (CILC) rate design, the Optional High
2 Load Factor rate design, and the 2007 Turkey Point Unit 5 adjustment. I
3 also address certain claims made regarding the Company's rates,
4 particularly in terms of the rates available to commercial customers. I will
5 begin by addressing the cost of service methodology.

6

7

COST OF SERVICE METHODOLOGY

8 **Q. Please summarize FPL's cost of service methodology and its results as**
9 **presented in your direct testimony.**

10 A. FPL consistently followed Commission precedent and sound ratemaking
11 principles in developing its cost of service study. As I discuss in my direct
12 testimony, the results of this study clearly indicate that the rates for many
13 classes, particularly those applicable to medium and large
14 commercial/industrial (C/I) customers, are below their cost to serve. Mr.
15 Baron and Mr. Selecky have proposed alternative cost of service
16 methodologies intended simply to shift costs away from their clients in
17 these medium and large C/I rate classes and onto other customers. The
18 intervenors have failed, however, to make a compelling case for replacing
19 the cost of service methodologies presented in my direct testimony.

20 **Q. What cost of service methodology did FPL propose for allocating**
21 **production plant?**

22 A. FPL used the 12 CP and 1/13th methodology in allocating production plant.

23 **Q. What does Mr. Baron propose in terms of production plant?**

1 A. Mr. Baron proposes to use the average of the single highest monthly
2 summer peak (“Summer Peak”) and the single highest monthly winter peak
3 (“Winter Peak”) in allocating production plant.

4 **Q. What do you conclude as a result of your review of Mr. Baron’s**
5 **proposal to use an average Summer/Winter Peak in allocating**
6 **production plant?**

7 A. The Commission should reject Mr. Baron’s proposed use of an average
8 Summer/Winter Peak for the following reasons:

- 9 • The average Summer/Winter Peak allocation methodology
10 mischaracterizes the generation planning process;
- 11 • The Summer Peak and Winter Peak are not consistently the
12 highest two monthly peaks of the year;
- 13 • The data fail to confirm the patterns in coincident peak demands
14 by rate class that Mr. Baron claims supports an average
15 Summer/Winter Peak allocation methodology;
- 16 • The average Summer/Winter Peak allocation does not send a
17 better price signal than the 12 CP and 1/13th methodology;
- 18 • The average Summer/Winter Peak allocation methodology
19 would allocate no production costs to certain rate classes even
20 though all rate classes receive the benefit of FPL’s generating
21 capacity.

22 **Q. Why does the average Summer/Winter Peak allocation mischaracterize**
23 **FPL’s generation plan?**

1 A. Mr. Baron states that “the requirement to meet the summer and winter peak
2 demand is driving the capacity resource addition on the system.” (Direct
3 Testimony page 29, lines 2-3). This characterization of the generation
4 plan, however, is faulty on three counts. First, Mr. Baron completely
5 ignores the influence fuel savings has on the type of generating units added.
6 While the decision to add additional MW of generation capacity is driven
7 by load requirements, the type of generation capacity added - and thus the
8 total cost of the unit additions - is influenced by the number of hours the
9 units are expected to run. Indeed, if MW capacity were the only
10 consideration in the generation plan, the Company’s resources would
11 consist solely of gas turbine peaking units. This is clearly not the case, nor
12 should it be.

13 **Q. What is the second way in which an average Summer/Winter Peak**
14 **allocation methodology mischaracterizes the generation plan?**

15 The peak demands driving the decision to add additional generation
16 capacity are not based on an average of the Summer Peak and Winter Peak.
17 While it is true that FPL must maintain a 20% reserve margin on both the
18 annual Summer and annual Winter Peaks, the impact each peak has on the
19 planning process is far from equal. Dr. Sim, FPL’s Resource Assessment
20 and Planning Supervisor, noted in Docket No. 040206-EI, “For a number of
21 years now, FPL’s projected need for additional resources has been driven
22 by the Summer reserve margin criterion.” (Direct Testimony, page 7, lines
23 19-20). Indeed, Mr. Baron indirectly, and perhaps inadvertently,
24 acknowledged this in a footnote on page 30 of his testimony which states,

1 “However, based on the Company’s resource plan, FPL is generally adding
2 capacity that maintains a 20% reserve margin in the *Summer* [emphasis
3 added].” Dr. Green provides additional support on this issue in his rebuttal
4 testimony.

5 **Q. Did the Winter Peak drive the need to add the Turkey Point Unit 5?**

6 A. No. As clearly outlined in Docket 040206-EI, the need for the Turkey Point
7 Unit 5 addition was based on the summer reserve margin criterion, not on
8 some average of the summer and winter reserve margins.

9 **Q. If the summer reserve margin criterion has been driving the
10 Company’s need for additional capacity why does Mr. Baron propose
11 an allocation based on the average Summer/Winter Peak?**

12 A. Quite simply, by using the average Summer/Winter Peak, Mr. Baron
13 allocates significantly less costs to the customers he is representing and
14 more costs to the residential (RS-1) customers. As shown in Document No.
15 RM-11, for many of the larger rate classes, an allocation based on the
16 Summer Peak methodology generally approximates the allocation based on
17 a 12 CP methodology. For example, the share of production costs allocated
18 to RS-1 is 59.8% under both the 12 CP and the Summer Peak allocation
19 methodologies. Likewise, the share of production costs allocated to GSLD-
20 1 is 8.5% under the 12 CP methodology and 8.3% under a Summer Peak
21 methodology. Under the average Summer/Winter Peak methodology,
22 however, RS-1 share of costs increases to 65.5%. The opposite pattern is
23 found in the larger commercial/industrial rate classes. With an allocation

1 based on the average Summer/Winter Peak methodology, GSLD-1's share
2 of costs declines to 7.3%.

3 **Q. Why does the Winter Peak have such a dramatic impact on the cost**
4 **allocation by rate class under the average Summer/Winter Peak**
5 **allocation methodology?**

6 A. Under the average Summer/Winter Peak allocation methodology, the
7 Winter Peak determines 50% of the allocation by rate class. This undue
8 emphasis on the Winter Peak has a dramatic impact on the allocation by rate
9 class because the timing and characteristics of the Winter Peak are so
10 different than that of the other eleven monthly peaks. Most of FPL's
11 monthly peaks tend to occur around the 3:00 PM to 6:00 PM window year
12 round. This is not the case, however, when the Company experiences a
13 cold weather peak, which is usually limited to one monthly peak a year and
14 defines the Winter Peak. The Winter Peak typically happens in the early
15 morning hours, a time when many businesses are closed and the heating
16 requirements of residential customers are at their highest. Hence,
17 residential customers are responsible for a larger share of the Winter Peak
18 than they are of the Summer Peak or the other monthly peaks of the year.

19 **Q. What is the third way in which the average Summer/Winter Peak**
20 **methodology mischaracterizes the generation plan?**

21 A. In addition to the reserve margin, another criterion in the generation plan is
22 maintaining a loss-of-load probability (LOLP) of 0.1 days per year or less.
23 The LOLP criterion considers peak loads year round and therefore, would

1 not be consistent with a method which considers only two peak hours per
2 year.

3 **Q. What other arguments does Mr. Baron make in support of the average**
4 **Summer/Winter Peak allocation?**

5 A. Mr. Baron argues that the magnitude of FPL's Summer Peak and Winter
6 Peak are substantially higher than that of the other ten monthly peaks. In
7 support of this, Mr. Baron presents two charts, one based on 2003 and
8 another based on 2005, designed to suggest that the Summer and Winter
9 Peaks are always head and shoulders above the other monthly peaks (Direct
10 Testimony, page 31, Figure 3). A longer view, however, suggests a
11 different story. While the Summer Peak is almost always the highest or
12 second highest monthly peak of the year, the magnitude of the Winter Peak
13 relative to other monthly peaks is much more variable over time. For
14 example, in 2004 the Winter Peak was lower than six of the monthly peaks
15 for the year. A similar pattern was experienced in 2002 and 1998. Mr.
16 Baron's methodology ignores these other monthly peaks which are in many
17 cases higher than the Winter Peak. In total, the Winter Peak was the highest
18 or second highest monthly peak in only four out of the last ten years. This
19 is shown in Document No. RM-12.

20 **Q. What does the analysis shown in Document No. RM-12 suggest in terms**
21 **of the method used to allocate production plant?**

22 A. The analysis in Document No. RM-12 shows that selectively including
23 certain peak months while excluding others can become an arbitrary
24 exercise. In addition, picking and choosing among monthly peaks is

1 unlikely to produce results that consistently reflect cost causation over time.
2 One of the advantages of the 12 CP and 1/13th methodology is that it does
3 not require arbitrary judgments as to which monthly peaks are important
4 and which are not.

5 **Q. What patterns in coincident peak contributions by rate class does Mr.
6 Baron allege?**

7 A. Mr. Baron provides a chart on page 26 of his testimony which allegedly
8 shows that residential customers (RS-1) have experienced disproportionate
9 increases in their average Summer/Winter Peak contributions relative to
10 their 12 CP contributions. Mr. Baron then presents a chart on page 27
11 designed to suggest that GSLD-1's average Summer/Winter Peak
12 contributions have consistently lagged behind its 12 CP contributions. It
13 appears that Mr. Baron is seeking to demonstrate that the incremental
14 coincident peak demands of residential customers are driving capacity
15 additions while the incremental coincident peak demands of GSLD-1
16 customers are occurring in off-peak months which, Mr. Baron claims, have
17 no impact on generation costs (Direct Testimony, page 28, line 4-10.)

18 **Q. What is your assessment of the patterns in coincident peak demands by
19 rate class that Mr. Baron alleges?**

20 A. As with any graphic analysis of a trend, the starting point, if not selected
21 carefully, can influence the results. In this case, Mr. Baron has selected
22 1998 as the starting point in an effort to demonstrate an alleged pattern of
23 increasing Summer/Winter Peak demands on the part of RS-1 customers.
24 One might assume that the Summer and Winter Peaks of 1998 were typical

1 of past peaks, but that was not the case. The 1998 Winter Peak, which
2 accounts for 50% of the average Summer/Winter Peak, was an anomaly.
3 Indeed, the 1998 Winter Peak was not a cold weather peak at all, but was
4 the result of a bizarre November heat wave. If a more typical Winter Peak
5 is selected, the trend that Mr. Baron alleges all but evaporates. As shown in
6 Document No. RM-13, the relationship between RS-1's 12 CP versus its
7 average Summer/Winter Peak contribution in the 2006 test year is generally
8 the same as it has been historically based on data since 1995. More
9 importantly, RS-1's contribution to the critical Summer Peak has generally
10 tracked its 12 CP contributions.

11 **Q. What does Document No. RM-13 suggest in terms of the GSLD-1 rate**
12 **class?**

13 A. Document No. RM-13 shows that the GSLD-1's contribution to the critical
14 Summer Peak is typically higher than its 12 CP contribution - sometimes by
15 a significant margin. This fact clearly contradicts Mr. Baron' claim that
16 GSLD-1's incremental coincident peak demands have been concentrated in
17 the off-peak months (Direct Testimony, page 28, lines 4-10).

18 **Q. Does the average Summer/Winter Peak allocation send a better price**
19 **signal than the 12CP and 1/13th methodology?**

20 A. No. The 12 CP and 1/13th methodology more accurately reflects the
21 generation plan than does the average Summer/Winter Peak allocation
22 because 1) it recognizes that the type of generation unit selected is
23 influenced by the kWh the unit is expected to run, 2) it better reflects the
24 influence of the summer reserve margin, and 3) it recognizes that capacity

1 must be available throughout the year to meet peak demand consistent with
2 the use of the LOLP criterion in the planning process. Accordingly, the 12
3 CP and 1/13th methodology will send a more appropriate price signal than
4 an average Summer/Winter Peak allocation methodology.

5 **Q. Are there any other factors which should be considered in determining**
6 **the appropriate method of allocating production plant?**

7 A. Yes. The Commission has long recognized that one of the advantages of the
8 12 CP and 1/13th methodology is that it ensures that each rate class pays
9 some portion of the production plant it uses (Docket No. 820097-EU, Order
10 No. 11437.) By contrast, methods such as the average Summer/Winter Peak
11 allocation which are limited to one or two hours a year can result in some
12 rate classes contributing nothing towards production plant even though such
13 rate classes clearly benefit from – and rely on – the system’s production
14 resources. This is evident in Document No. RM-11 which shows that three
15 rate classes are allocated no production plant costs using an average
16 Summer/Winter Peak allocation.

17 **Q. Do you have any other comments regarding Mr. Baron’s proposed use**
18 **of the average Summer/Winter Peak allocation?**

19 A. Yes. The use of a 12 CP and 1/13th methodology has an extensive history of
20 regulatory approval in Florida and over the years the Commission has
21 clearly articulated why it believes the methodology is appropriate.
22 Accordingly, it would be reasonable to expect that consideration of an
23 alternative method would be made only to the extent that a clear and
24 compelling case is made for that alternative method. After all, Mr. Baron

1 himself found the 12 CP and 1/13th method “reasonable” for FPL’s use as
2 recently as 2002 (Docket 001148-EI, Direct testimony of Stephen Baron,
3 page 6, line 20). After reviewing the arguments Mr. Baron now presents in
4 support of an alternative methodology, one based on an average
5 Summer/Winter Peak, it is obvious that a clear and compelling case has not
6 been made. The Commission should approve the 12 CP and 1/13th
7 methodology as proposed by the Company.

8 **Q. Are there any other cost of service issues raised in the intervenors’**
9 **testimony to which you would like to respond?**

10 A. Yes. I would like to respond to Mr. Baron’s and Mr. Selecky’s advocacy of
11 the minimum distribution system (MDS) or zero intercept system method
12 for allocating distribution plant.

13 **Q. How does the MDS method compare with the Company’s proposed**
14 **method of allocating distribution plant?**

15 A. FPL’s methodology classifies meters, service drops, and primary pull-offs
16 as customer-related and classifies the remaining balance of distribution
17 plant as demand-related. Thus, under FPL’s methodology substations,
18 poles, conductors (excluding primary pull-offs) and transformers are
19 classified as demand-related and are allocated among the rate classes using
20 various measures of peak demand. The MDS method classifies a portion of
21 poles, conductors and transformers as customer-related and allocates these
22 costs among the rate classes based on the number of customers. The MDS
23 method determines the customer-related portion of these facilities on the
24 basis of a hypothetical distribution system constructed to serve the

1 minimum load requirements of customers. Under the MDS method,
2 minimally sized transformers, poles, and conductors are used as the basis
3 for constructing this minimum load requirements system. A variant of the
4 MDS method, the zero intercept method uses statistical extrapolation to
5 determine a hypothetical customer-related portion of poles, conductors and
6 transformers.

7 **Q. What impact would the MDS method have on the allocation of costs by**
8 **rate class?**

9 A. By reclassifying demand-related costs as customer-related, the MDS
10 method would increase the amount of distribution plant allocated to
11 residential and very small commercial customers. Larger customers, such
12 as those in the GSLD-1 rate class, would benefit through a reduced
13 allocation of costs.

14 **Q. What do you conclude from your review of Mr. Selecky's and Mr.**
15 **Baron's testimony on the MDS method?**

16 A. The Commission should reject the use of the MDS method for the following
17 reasons:

- 18 • The Commission has consistently rejected the use of the MDS
19 method for investor owned utilities and a compelling case for
20 ignoring that precedent has not been made in this case;
- 21 • The MDS method presumes a type of electric system and a method
22 of planning which is not reflective of FPL's distribution system;
- 23 • The MDS method assumes unique characteristics on the part of the
24 electric utility, including low customer density, highly sporadic

1 loads, a high ratio of accounts per customer location, and an
2 inability to adequately recover costs absent the use of the MDS
3 method, none of which are applicable to FPL;

- 4 ● The economies of scale argument made by Mr. Baron ignores the
5 impact of density, diversity and double-counting;
- 6 ● Mr. Baron has inappropriately estimated the impact of the MDS
7 method.

8 **Q. Has the MDS method ever been approved for an electric investor
9 owned utility (IOU) in Florida?**

10 A. No. The issue has been considered by the Commission numerous times and
11 has been consistently rejected, most recently in 2002 (Docket No. 010949,
12 Order No. PSC-02-0787-FOF-EI). Moreover, the Commission's findings
13 regarding the MDS method in that order are applicable in this case, as I
14 address in the discussion below.

15 **Q. Why does the MDS method presume a type of electric system and a
16 method of planning which is not reflective of the FPL distribution
17 system?**

18 A. The MDS method assumes that a certain investment in transformers,
19 conductors and poles is required solely as a result of connecting customers
20 to the electric system. Consequently, the MDS method is based on a set of
21 distribution facilities designed to service the zero or minimum load
22 requirements of customers. As the Commission states in Order No. PSC-
23 02-0787-FOF-EI, "The concept of a zero load cost is purely fictitious and
24 has no grounding in the way the utility designs its systems or incurs costs

1 because no utility builds to serve zero load.” Moreover, the
2 Commission’s analysis is consistent with FPL’s distribution planning. The
3 central criterion used in planning the FPL distribution system is kW load
4 requirements, not customers served.

5 **Q. Does this mean that the need to serve individual customers never**
6 **influences distribution plant additions?**

7 A. No. There are certainly cases where line extensions are required to serve
8 specific customers. This is where a strong and consistently enforced
9 contribution in aid of construction (CIAC) policy comes into play. As
10 outlined in the Florida Administrative Code (FAC 25-6.064), customers are
11 required to pay for the cost of any line extension to the extent that the
12 expected revenues do not offset the cost of the line extension. In this
13 manner, customers with “minimum load requirements” must pay for the
14 cost of any line extensions required to service them. This is a far more
15 equitable outcome than the cost allocation resulting from the MDS method
16 since the specific customers necessitating the line extension bear the cost.

17 **Q. Would the requirement to pay a line extension CIAC be limited to large**
18 **commercial/industrial customers?**

19 A. Not at all. A CIAC would be required in any case where the expected load
20 and revenue does not offset the required investment. In fact, the CIAC line
21 extension formula is routinely applied to new residential subdivisions.

22 **Q. Has a MDS method ever been approved for any electric utility in**
23 **Florida?**

1 A. The sole case in which the MDS method was approved involved an electric
2 cooperative, the Choctawhatchee Electric Cooperative, in 2002.

3 **Q. Does the Commission decision with regard to the Choctawhatchee**
4 **Electric Cooperative in any way alter its policy against the MDS?**

5 A. No. The Commission decision (Docket No. 020537-EC, Order No. 02-
6 1169-TRF-EC) made it clear that the Choctawhatchee Electric Cooperative
7 possessed “unique characteristics” which justified this departure from
8 precedent.

9 **Q. Are these “unique characteristics” shared by FPL?**

10 A. No, they are not. First, the Commission cited Choctawhatchee Electric
11 Cooperative’s low customer density. The Commission noted that the
12 Cooperative has a customer density of 10 customers per square mile while
13 most IOUs have a density of 54 customers per square mile or greater. As I
14 present in Document No. RM-14, FPL’s density is 149 customers per
15 square mile or roughly 15 times greater than that of Choctawhatchee
16 Electric Cooperative.

17 **Q. Why is customer density a consideration in evaluating the**
18 **appropriateness of the MDS method?**

19 A. Pockets of geographically isolated customers could require a greater
20 number of poles and a longer span of conductors to provide service than
21 would be the case in more urban settings. Thus, a rural utility could find
22 that the MDS method adequately reflects their planning process. FPL, on
23 the other hand, has a high customer density. As shown on Document No.
24 RM-14, the Company’s customer density is dramatically higher than that of

1 a rural cooperative. In fact, the Company's customer density is even high
2 relative to other IOUs. Moreover, FPL's customer density has increased
3 significantly over time and is projected to continue increasing over time as
4 our load grows.

5 **Q. Does customer density influence any distribution facilities besides poles
6 and conductors?**

7 A. Yes. The MDS method assumes that there is some minimally sized
8 transformer required to connect customers regardless of their load. In
9 utilities with very low customer density, the notion of a minimal load
10 transformer may have some validity because in sparsely populated rural
11 areas there is usually one transformer per customer. By contrast, in more
12 urban areas several customers may be served from one transformer. This is
13 certainly the experience at FPL where serving 5-6 residential customers or
14 more from a single transformer is standard.

15 **Q. What other "unique characteristics" did the Choctawhatchee Electric
16 Cooperative have?**

17 A. The Commission noted that the Cooperative's rural service territory
18 experiences greater seasonal variability than is typically found in more
19 urban electric utilities. The Commission noted that the cooperative supplies
20 service to "a significant number of barns, stock tanks, electric fences,
21 hunting cabins, and vacation homes." Proponents of the MDS method
22 suggest that highly sporadic loads may support the use of this method
23 because a rate design based on relatively low customer charges and high
24 energy charges may not adequately recover costs.

1 **Q. Are FPL loads highly sporadic in this manner?**

2 A. No. Less than 5% of residential accounts consume a minimal amount of
3 electricity, i.e. 100 kWh or less, in any given month.

4 **Q. Are highly sporadic loads cited as a reason in this case for adopting the**
5 **MDS method?**

6 A. Yes. Mr. Baron states that there are a significant number of vacation homes
7 in the Company's service territory (Direct Testimony, page 47, lines 14-16).
8 Mr. Baron cites a hypothetical example of a single family home used 50
9 days a year and claims that this type of customer would not be allocated any
10 distribution plant costs under the Company's cost of service methodology
11 unless the customer happens to be on at the time of the rate class's group
12 peak. Mr. Baron, however, offers no evidence whatsoever for the alleged
13 significance of vacation homes in FPL's service area. In fact, the data show
14 that less than 5% of FPL's residential accounts have minimal loads (i.e. 100
15 kWh or less) in any given month. The percentage of accounts with
16 consistently minimal loads (i.e. under 100 kWh per month for all but 50
17 days per year) would, by definition, be even less.

18 **Q. Did the Commission offer other examples of the "unique**
19 **characteristics" of the Choctawhatchee Electric Cooperative that made**
20 **the MDS method appropriate?**

21 A. Yes. The Commission noted that the ratio of accounts per customer
22 location was quite high. The cooperative's rural customer base was cited as
23 the reason for this high ratio. For example, a farm could have a residence, a
24 barn and an electric fence all on different meters. Assuming such a

1 configuration, a customer's total load would be divided among multiple
2 accounts, thus increasing the utility's connection costs. Lastly, the MDS
3 method was approved in part because of the cooperative's financial
4 hardships under the assumption that higher customer charges would help
5 stabilize revenues. Again, neither of these two reasons would be applicable
6 to FPL.

7 **Q. Given the background on the MDS method you've provided, what**
8 **arguments do Mr. Baron and Mr. Selecky make for advocating such a**
9 **dramatic change in the Commission policy regarding the allocation of**
10 **distribution plant?**

11 A. Mr. Baron states that the MDS is necessary because of what he refers to as
12 the economies of scale in certain distribution facilities (Direct Testimony,
13 page 41, lines 3-4). The economies of scale argument also appears to be the
14 rationale behind the schematic diagram Mr. Selecky presents on page 16 of
15 his testimony.

16 **Q. Do you find this argument convincing?**

17 A. No, I do not. The MDS method shifts all benefits from economies of scale
18 to the larger customers even though there are economies of scale in serving
19 residential customers. In dense urban areas not only are multiple residential
20 customers frequently served off the same transformer but the size of such a
21 transformer is frequently comparable to that used for commercial
22 customers. The diversity of residential customers' loads also creates
23 economies of scale. Because each residential customer's maximum demand
24 will not coincide exactly with other customers' on the same transformer

1 engineering procedures dictate that transformers serving multiple residential
2 customers need not be sized to serve the sum of every customer's maximum
3 demand. Mr. Selecky's schematic on page 16 of his testimony would
4 suggest that a new transformer is required for every three residential
5 customers added to the system. In reality, distribution planners can and do
6 routinely add new customers to existing transformers because of the
7 diversity of residential loads. By contrast, no such diversity is applicable to
8 a large commercial customer served from a single transformer.

9 **Q. Are these the only problems with the MDS method as it is applied to**
10 **transformers?**

11 A. No. Another problem with the MDS method as espoused by Mr. Baron and
12 Mr. Selecky is that it would double count the kW loads of residential and
13 the smallest commercial customers for the investment in transformers
14 associated with their so-called minimal load requirements.

15 **Q. Why does this double counting occur?**

16 A. This double counting occurs because the RS-1 and the smallest commercial
17 rate class (GS-1) are first allocated the cost of the so-called minimum load
18 transformers based on the number of customers. The remaining cost of
19 transformers is then allocated to RS-1 and GS-1 on the basis of their
20 maximum customer peaks, with no adjustment for that portion of the
21 maximum customer peaks which is provided under the minimum load
22 transformer.

23 **Q. Do Mr. Baron and Mr. Selecky offer any other arguments for applying**
24 **the MDS method in this case?**

1 A. Mr. Selecky claims that a number of other jurisdictions are using the MDS
2 method (Direct Testimony, page 16, lines 3-7). The use of a cost of service
3 methodology in a different jurisdiction should not be interpreted as the
4 decisive factor supporting its application in Florida. Accordingly, the use of
5 the MDS method by Gulf's sister company was not found to be a
6 compelling factor in Order No. PSC-02-0787-FOF-EI. Mr. Baron and Mr.
7 Selecky also claim that the NARUC Electric Manual endorses, if not
8 requires, the use of the MDS method. However, as the Commission has
9 already observed, the NARUC manual states that the choice of
10 methodology will depend on the unique circumstances of the case (Docket
11 No. 010949-EI, Order PSC-02-0787-FOR-EI, page 66).

12 **Q. Do you have any other comments regarding the intervenors' support**
13 **for the MDS method?**

14 A. Yes. Mr. Baron has quantified the impact from the MDS method by
15 applying the classification between demand and customer costs developed
16 for Gulf Power Company to FPL's cost of service study (Direct Testimony,
17 page 49, lines 2-5). Under the best of circumstances assuming that two
18 electric utilities have an identical cost structure is problematic. In this case,
19 using Gulf Power Company to illustrate the impact of the MDS method is
20 particularly inappropriate. As discussed earlier, customer density has been
21 recognized as a factor in evaluating the MDS method. As shown in
22 Document No. RM-14, FPL's density of 149 customers per square mile
23 exceeds Gulf's 54 customers per square mile by a factor of almost 3 to 1.

1 **Q. Do you have any other comments regarding Mr. Baron's cost of service**
2 **analysis?**

3 A. Yes. On Table 6, page 51 of his testimony Mr. Baron shows the parity
4 figures resulting from the average Summer/Winter Peak treatment of
5 production plant combined with the MDS method for distribution plant. I
6 am unable to confirm Mr. Baron's calculation and in no way endorse the
7 use of either an average Summer/Winter Peak treatment of production plant
8 or the MDS method for distribution plant. Nevertheless, I think it is
9 important to point out that, even with the dramatic methodology changes
10 Mr. Baron is advocating, a number of the larger commercial rate classes
11 (GSLD-1, GSLD-2, and CS-2) remain below parity.

12

13 **ALLOCATION OF THE REVENUE INCREASE**

14 **Q. Can you briefly summarize the Company's proposal on allocating the**
15 **revenue increase?**

16 A. Yes. As I discussed in my direct testimony, the Company proposes to move
17 the majority of rate classes to within +/- 10% of parity. Because the
18 Company's rates have not been adjusted to improve parity in more than
19 twenty years there are widely disparate parities by rate class. For example,
20 two rate classes, outdoor lighting (OL-1) and the standby service to
21 customers below 500 kW (SST1-DST), are not even earning positive rates
22 of return. In other words, these rate classes are not even earning enough to
23 offset the operating expenses allocated to them, much less make any
24 contribution to capital costs. Likewise, two other specialty service rates,

1 namely street lighting (SL-1) and sports field lighting (OS-2), are earning
2 less than 50% of the average rate of return. At the other end of the
3 spectrum, other rates are earning 50% more than the average rate of return.
4 The largest group in this regard is the GS-1 rate class which consists of the
5 smallest commercial customers. The Company's proposal would provide an
6 important – and necessary – step in addressing these discrepancies.

7 **Q. What positions have the intervenors taken on this issue?**

8 A. Each of the intervenors filing testimony on this issue, Mr. Baron, Mr.
9 Selecky, and Dr. Goins, acknowledge the goal of moving rate classes closer
10 to parity. However, the intervenors advocate a limit of 150% of the system
11 average be applied to any rate class's increase. The intervenors argue that
12 in past cases the Commission has relied on a rule-of-thumb that limits the
13 increase to any rate class to no more than 150% of the system average
14 increase.

15 **Q. Does the Commission's past use of this rule-of-thumb dictate its use in
16 this case?**

17 A. No. The Commission has recognized that there may be circumstances in
18 which the rule-of-thumb should not be applied. Specifically, in Docket
19 810136-EU, Order No. 10557, pages 29-30 (the "Gulf Case") the
20 Commission rejected the use of the 150% rule-of-thumb. In that case the
21 Commission ruled "we are departing from our policy in previous cases of
22 limiting the increase to any one class to no more than 1.5 times the system
23 average increase. Were we to apply that policy in this case, some classes
24 whose present rates of return are above parity would receive an increase.

1 Thus, the greater equity lies in allocating the increase to those rate classes
2 with substantially lower rates of return.”

3 **Q. What meaning do you ascribe to the Commission’s reference to “the**
4 **greater equity”?**

5 A. That it is inherently fair and equitable to align each rate class’s revenues
6 with its cost of service. Limiting the revenue increase to any individual rate
7 class to a certain threshold may appear to be equitable, but the benefits of
8 doing so should be balanced against the added revenue burden other
9 customers would be required to bear and the disparities in parity by rate
10 class which would continue to perpetuate as a result. As the Commission
11 found in the Gulf case, the revenue burden on other customers and the
12 disparities in parity by rate class can be such that the use of the rule-of-
13 thumb is inequitable.

14 **Q. How did the parities by rate class in the Gulf case compare with FPL’s**
15 **in this filing?**

16 A. The parity by rate class in the Gulf case ranged from 81% to 145%. By
17 contrast, the FPL’s cost of service study shows parities by rate class ranging
18 from less than zero to in excess of 150%. Thus, the inequity resulting from
19 the use of the rule-of-thumb would be far greater in this case than would
20 have been in the Gulf case.

21 **Q. If the rule-of-thumb were applied in this case which rate classes would**
22 **have to shoulder a revenue increase in excess of their cost of service?**

23 A. The RS-1 class, by virtue of its size and the fact that it is above parity,
24 would end up shouldering a revenue increase in excess of its cost of service

1 if the rule-of-thumb were applied in this case. The use of the rule-of-thumb
2 would increase the target revenues required from RS-1 by \$18 million or
3 8.4% more than the \$214 million proposed in the Company's filing.
4 Moreover, under the conventional rule-of-thumb the total base revenue
5 increase for RS-1 would be only a fraction below the system average
6 increase requested even though RS-1 parity at 106% is substantially higher
7 than that of most other classes. In other words, under the rule-of-thumb
8 there would be little effort to align costs and revenues in the RS-1 rate class,
9 a class that represents almost 90% of our customers.

10 **Q. Are there any other compelling reasons why the rule-of-thumb should**
11 **not be applied in this case?**

12 A. Yes. In past circumstances reasonable progress toward parity may have
13 been achievable using the rule-of-thumb. For example, in Docket No.
14 830465-EI when the rule-of-thumb was last applied to FPL's rates, only one
15 rate class was left with a parity index below 90%. By contrast, in this case,
16 half of all rate classes would be left with a parity index below 90% if the
17 rule-of-thumb were used.

18 **Q. Do you have any other comments regarding the allocation of the**
19 **revenue increase by rate class?**

20 A. Yes. Mr. Baron advocates a uniform revenue increase across all rate classes
21 (Direct Testimony, page 51, lines 6-8). The suggestion is based on the
22 application of cost of service methodologies which I do not support and
23 have already addressed. Nevertheless, even Mr. Baron's calculations show
24 parity indices ranging from -54% to 618%. How such widely disparate

1 parity indices “support the allocation of approved revenue increases on an
2 equal percentage increase for all rate schedules” as Mr. Baron claims, is
3 difficult to comprehend.

4

5 **GSD-1, GSLD-1, AND GSLD-2 RATE CLASSES**

6 **Q. Have the intervenors raised any issues in terms of the treatment of**
7 **specific rate classes?**

8 A. Yes. Mr. Selecky objects to the Company’s proposed rates for GSD-1,
9 GSLD-1, and GSLD-2 rate classes. (Direct Testimony, page 23, lines 3-6).

10 **Q. What are the GSD-1, GSLD-1 and GSLD-2 rate classes?**

11 A. Currently, the Company has three different distribution-voltage demand
12 meter general service rate classes depending on the customer’s kW. They
13 are GSD-1 (21-499 kW), GSLD-1 (500-1999 kW), and GSLD-2 (above
14 2000 kW). As ordered by the Commission, each of these rate classes has
15 the same demand charge while the energy charges vary inversely with the
16 rate class’s kW threshold.

17 **Q. How have customers reacted to this rate structure?**

18 A. In certain cases, customers have attempted to circumvent the rate structure
19 by artificially inflating or “spiking” their kW demand so as to qualify for
20 the lower energy charges associated with the GSLD-1 rate class. (See
21 Document No. RM-15, Docket No. 030623-EI, Hearing November 4, 2004,
22 Witness George Brown, transcript pages 194-199). Other customers have
23 merely complained that “the 500 kW demand level does not have any
24 ‘magic’ that reduces FP&L costs of providing service.” (Direct Testimony

1 of Sheree L. Brown on behalf on Publix Super Markets, Inc, Docket No.
2 001148-EI).

3 **Q. What does the cost of service study show in terms of the cost of serving**
4 **customers below the 500 kW threshold and those above it, in other**
5 **words those in the GSD-1 and GSLD-1 rate class?**

6 A. As shown in the figures below, the energy unit costs are nearly identical for
7 both classes while the demand unit cost is considerably higher for the
8 GSLD-1.

9	<u>Rate Class</u>	<u>GSD-1</u>	<u>GSLD-1</u>	<u>difference</u>
10	Energy Unit Costs, cents/kWh (1)	.504	.503	0%
11	Demand Unit Costs, \$/Billing kW (2)	8.96	11.15	24%

12 Sources:

13 (1) Energy revenue requirements from MFR E-6b divided by kWh sales

14 (2) Demand revenue requirements from MFR E-6b, divided by billing kW
15 without the 10kW exemption

16 In addition, as I discuss later in my testimony, production and transmission
17 demand costs are more appropriately recovered on an energy basis than
18 through billing kW. Thus, the proposed unit costs for rate design are as
19 follows:

20	<u>Rate Class</u>	<u>GSD-1</u>	<u>GSLD-1</u>	<u>difference</u>
21	Energy Unit Costs, cents/kWh (1)	2.09	1.97	-6%
22	Demand Unit Costs, \$/Billing kW (2)	3.40	4.30	26%

23 Sources:

1 (1) Energy revenue requirements plus production and transmission demand
2 revenue requirements from MFR E-6b divided by kWh sales

3 (2) Distribution demand revenue requirements from MFR E-6b, divided by
4 billing kW without the 10 kW exemption

5 **Q. What did you conclude from this?**

6 A. I conclude that there is no basis for the assumption that the cost to serve
7 customers automatically reduces when a customer moves from 499 kW to
8 500 kW. Indeed, *whether one follows my suggested unit cost calculation or*
9 *the method advocated by Mr. Selecky, the cost of GSLD-1 is, if anything,*
10 *higher than the cost of serving GSD-1 customers.* In short, the current rate
11 structure which artificially reduces a customer's bill upon reaching 500 kW
12 is flawed.

13 **Q. How should this problem be addressed?**

14 A. One option would be to increase both the GSD-1 and GSLD-1 rate classes
15 to their full cost of service. However, this proposal would likely result in
16 GSLD-1 customers paying *more* than GSD-1 customers. As a compromise,
17 it is reasonable to evaluate whether the demand and energy charges for
18 GSD-1 and GSLD-1 should be made equal. There are numerous cases
19 where existing rate classes have been combined for ratemaking purposes
20 (Docket No. 910890-EI, Order No. PSC-92-1197-FOF-EI; Docket No.
21 810002-EU, Order No. 10306). The Commission offers guidance on
22 evaluating whether rate classes should be collapsed for ratemaking
23 purposes. Specifically, the Commission has used the ratio of load factor to
24 coincidence factors to evaluate whether rate classes should be combined

1 (Docket No. 820150-EU, Order No. 11498). The ratio of load factor to
2 coincidence factor for the GSD-1 and GSLD-1 classes is as follows:

3 GSD-1: 76%

4 GSLD-1: 81%

5 Thus, the rate classes' ratios of load factor to coincidence factor are
6 comparable. This suggests that the load characteristics of the rate classes
7 are reasonably close and the use of a single set of demand and energy
8 charges is appropriate.

9 **Q. Does FPL propose applying the single set of demand and energy**
10 **charges to other rate classes?**

11 A. The Company proposes to include GSLD-2 in the combined rate treatment
12 since its unit costs are comparable to those of GSLD-1. The corresponding
13 curtailable (CS) rate classes would also be included in this proposal since
14 the only difference between the otherwise applicable GSLD rates and the
15 CS rate classes is the curtailable credit. At the same time, separate
16 customer charges would be set for each rate class.

17 **Q. How have the intervenors reacted to this proposal?**

18 A. As previously referenced, Mr. Selecky on behalf of the Commercial Group
19 suggests that there is no basis for combining the GSD-1, GSLD-1, GSLD-2,
20 CS-1, and CS-2 rate classes. The above analysis, however, supports the
21 Company's proposal. Mr. Selecky also implies that the revenue increases
22 for GSLD-1 and GSLD-2 are somehow inflated because of the Company's
23 proposal to have a single set of demand and energy charges for GSD-1,
24 GSLD-1 and GSLD-2. The opposite is true. While the Company would

1 prefer to move all rate classes to within +/- 10% of parity, the parity targets
2 for the GSLD-1 and GSLD-2 were reduced from 90% to 80% and 82%
3 respectively in order to: 1) achieve a standard set of demand and energy
4 charges; and 2) to account for the revenue loss associated with the Optional
5 High Load Factor rate the Company is offering.

6 **Q. Did Mr. Selecky raise any other issues regarding the GSD-1, GSLD-1,
7 and GSLD-2 rate classes?**

8 A. Yes. Mr. Selecky disagrees with the specific energy and demand charges
9 proposed for GSD-1, GSLD-1, and GSLD-2 rate classes (Direct Testimony,
10 page 25). Under the Company's proposal the demand charge would recover
11 all distribution demand-related costs and a portion of production and
12 transmission demand-related costs while the energy charges would recover
13 the remaining portion of demand-related production and transmission costs
14 as well as all energy-related costs. Mr. Selecky, on the other hand, opposes
15 the recovery of any production or transmission demand-related costs
16 through the energy charges.

17 **Q. Why is the Company proposing to recover a portion of its demand-
18 related production and transmission costs through the energy charge?**

19 A. The decision on which billing determinant should be used to recover a
20 particular cost should be based on an evaluation of which billing
21 determinant best tracks those costs. In the case of demand-related
22 production and transmission costs the costs are allocated on the basis of 12
23 CP contributions. Thus, to the maximum extent possible, the billing
24 determinant used to recover production and transmission demand-related

1 costs should track a customer's 12 CP contributions. Since customers are
 2 not billed on the basis of their 12 CP contributions, this becomes a question
 3 of whether kWh sales or billing kW better mirrors a customer's 12 CP
 4 contribution.

5

6 The data clearly show that kWh sales more closely track customers' 12 CP
 7 contributions than billing kW does. Over time, increases in billing kW
 8 within the GSLD-1 rate class have fallen short of increases in either kWh
 9 sales or 12 CP contributions.

10 Cumulative Increases (1984-2006) - GSLD-1

11 kWh Sales 153%

12 Billing kW 117 %

13 12 CP 162%

14

15 In addition, a statistical analysis shows that the correlation between kWh
 16 sales and 12 CP contribution is greater than that between billing kW and 12
 17 CP contributions.

18 Correlation Coefficient with 12 CP - GSLD-1 Sample Points

19 kWh Sales (1) 97%

20 Billing kW (2) 93%

21 Notes (1) – annual kWh sales

22 Notes (2) – maximum monthly kW demands

1 **Q. Is the use of a correlation analysis a common technique for determining**
2 **how demand-related production and transmission costs should be**
3 **recovered?**

4 A. Yes, it has been used in a number of Commission decisions, including
5 Docket No. 830470-EI, Order No. 13771 and Docket No. 840086-EI, Order
6 No. 14030.

7 **Q. Are the results of the correlation analysis consistent with past**
8 **experience?**

9 A. Yes. The Commission has long recognized that there is an inherent
10 mismatch between billing kW and the 12 CP demands which are used to
11 allocate production and transmission demand costs. In Docket 930759-EG,
12 Order No. PSC-93-1845-FOF-EG, the Commission determined that it was
13 not appropriate for FPL to recover demand-related costs on a billing kW
14 basis because of the mismatch between billing demand and coincident peak
15 demand. The Commission specifically recognized that “for billing
16 purposes, an individual customer's maximum demand (billed kw) is
17 determined by the customer's greatest amount of continuous use during any
18 30 minute time period. The customer's billed kW may or may not occur
19 when the system is at its peak.”

20
21 The Commission has also recognized this “mismatch” in approving the
22 rates for other utilities. In Docket No. 830470-EI, Order No. 13771, pages
23 46-47, the Commission concluded that “increasing the proportion of
24 demand-related costs recovered through demand charges is inequitable to

1 low load factor customers when KWH's are as highly or even more
2 correlated with coincident demand than billing demand and when there is a
3 wide variation of coincidence factors within a class.” Thus, the
4 Commission has approved recovering costs allocated on a 12 CP basis on a
5 kWh energy basis.

6 **Q. Does Mr. Selecky perform any statistical study indicating that billing
7 kW tracks 12 CP demands better than kWh sales does?**

8 A. No.

9 **Q. Then what basis does Mr. Selecky offer for opposing the recovering
10 costs allocated on the basis on 12 CP on the basis of kWh sales?**

11 A. Mr. Selecky claims that all demand-related costs, including those allocated
12 on the basis of 12 CP, should be recovered through the demand charges in
13 order to send the right price signal to customers (Direct Testimony, page
14 25). Yet, Mr. Selecky does not explain why the recovery of 12 CP costs
15 through the demand charge sends an appropriate price signal when kWh
16 sales clearly does a superior job of tracking these costs.

17

18 CILC RATES

19 **Q. Please discuss the testimony of Federal Executive Agencies witness
20 Goins relating to the CILC rate schedules.**

21 A. In his direct testimony, Dr. Goins proposes an adjustment to exclude the
22 “energy-related gas turbine production costs included in FPL’s proposed
23 energy charge” for the CILC-1G; CILC-1D; and CILC-1T rate schedules
24 (Direct Testimony, page 17, lines 18 – 21).

1 **Q. What do you conclude as a result of your review of Dr. Goins' proposed**
2 **adjustment?**

3 A. The Commission should reject Dr. Goins' proposed adjustment to the CILC
4 energy charges for the following reasons:

- 5 ▪ It is inconsistent with the cost of service methodology proposed
6 by FPL and supported by Commission precedent;
- 7 ▪ It is inconsistent with FPL's resource plan;
- 8 ▪ It would be costly and impractical to implement;
- 9 ▪ It has not been calculated correctly.

10 **Q. Why is Dr. Goins' proposed adjustment to the CILC energy charges**
11 **inconsistent with the cost of service methodology proposed by FPL and**
12 **supported by Commission precedent?**

13 A. As I have previously discussed, the Commission, in evaluating the
14 appropriate method of allocating production plant, has recognized that a
15 portion of these costs should be allocated on the basis of kWh. Consistent
16 with Commission precedent, FPL is proposing a 12 CP and 1/13th
17 methodology which classifies approximately 8% of production plant as
18 energy-related. The adjustment proposed by Dr. Goins is clearly at odds
19 with the 12 CP and 1/13th methodology because under his proposal CILC
20 rates would not recover their share of gas turbines classified as energy-
21 related.

22 **Q. What basis does Dr. Goins offer for proposing rates which do not**
23 **follow the 12 CP and 1/13th methodology?**

1 A. The basis for the adjustment as proposed by Dr. Goins is described as
2 follows:

3 FPL's CILC interruptible service option is primarily used
4 to reduce peaking (that is, gas turbine) capacity
5 requirements. Requiring CILC customers to pay energy-
6 related nonfuel gas turbine production costs is
7 inconsistent with excluding demand-related gas turbine
8 production costs from the CILC Load Control On-Peak
9 demand charges. (Direct Testimony, page 17, lines 11 –
10 14)

11 **Q. Do you find Dr. Goins' argument compelling?**

12 A. No, I do not. Implementing Dr. Goins proposed adjustment to the energy
13 charges for the CILC rate schedules, is inconsistent with the cost of service
14 methodology proposed by FPL and supported by Commission precedent.
15 As I observed in my direct testimony, "all generating units under the 12 CP
16 and 1/13th methodology are treated consistently." (page 17, lines 4-5). Dr.
17 Goins' proposed adjustment would isolate the cost of one type of generating
18 unit, gas turbines, and exempt certain rate classes from the cost of those
19 units appropriately allocated to them on the basis of the 12 CP and 1/13th
20 methodology.

21 **Q. Is Dr. Goins' proposed adjustment to the energy charge for the CILC**
22 **rate schedules inconsistent with Dr. Goins' own conclusions regarding**
23 **the 12 CP & 1/13th methodology?**

1 A. Yes. His proposed adjustment is particularly surprising given his
2 recognition of the “Commission’s past support” (Direct Testimony, page 6,
3 lines 6 – 7), and his own assessment and conclusion regarding FPL’s filed
4 cost of service study. In numerous points in his testimony Dr. Goins
5 assesses FPL’s cost of service study as “reasonable.” (Direct Testimony,
6 page 7, line 25 through page 8, line 2, page 9, lines 19 – 21, page 9, line 26
7 through page 10, line 2).

8 **Q. What impact does exempting certain rate classes from the costs**
9 **appropriately allocated to them on the basis of the 12CP and 1/13th**
10 **methodology have?**

11 A. Dr. Goins appropriately observes that, if a “cost-of-service methodology
12 does not allocate and assign cost responsibility in a reasonable manner, then
13 interclass revenue subsidies are created and specific class rates are either
14 over- or under-priced.” (Direct Testimony, page 7, lines 20 – 23).
15 Unfortunately, such interclass subsidies are certain to result from Dr. Goins’
16 proposed CILC energy adjustment. Dr. Goins calculates a maximum
17 revenue impact of approximately \$2 million from his proposal, but he
18 makes no recommendations as to how this revenue shortfall is to be
19 recovered. The effect of Dr. Goins’ failure to address the recovery of the \$2
20 million revenue impact of his proposed adjustment raises the near-certainty
21 that “interclass revenue subsidies are created and specific class rates are
22 either over- or under-priced.”

23 **Q. Why is Dr. Goins’ proposed adjustment inconsistent with FPL’s**
24 **resource plan?**

1 A. From an FPL resource planning perspective the net kWh energy reduction
2 from the CILC program is negligible. This is because FPL's resource plan
3 makes the following assumptions: 1) the number of CILC load control
4 events is limited, 2) load control events typically call on only a portion of
5 CILC's interruptible load, and 3) the majority of any unserved energy
6 resulting from a load control event will be served later. Thus, implementing
7 an adjustment to the energy charge for the CILC rate schedules on the basis
8 of their non-firm peak load characteristics is inconsistent with FPL's
9 resource plan. Dr. Green's testimony also addresses this point.

10 **Q. Why is Dr. Goins' proposed adjustment costly and impractical to**
11 **implement?**

12 A. Dr. Goins' proposed adjustment requires that the energy charge for the
13 CILC rate schedules distinguish between firm and non-firm usage based on
14 an assumed load factor and the level of controllable versus firm demand
15 contractually specified by the CILC customers in their agreement for CILC
16 service. (Direct Testimony, page 18, lines 4 – 11) Dr. Goins ignores the
17 significant revision to the billing system that would be necessary for these
18 CILC rate schedules in order to implement his proposed adjustment. The
19 existing billing system for these CILC rate schedules has no capability to
20 distinguish firm versus non-firm energy usage and apply separate energy
21 charges to each. This revision is also significant because the
22 implementation of Dr. Goins' methodology requires an assumption
23 concerning load factor and the customers' contractual designation of
24 controllable versus firm load which must also be reflected in the billing

1 system for these CILC rate schedules. While I have not determined a
2 specific estimate, my experience in implementing other rate revisions
3 suggests that significant time and resources would be required. Given the
4 commitment of resources required to implement the revised rates FPL is
5 proposing in this docket, implementing the change Dr. Goins is proposing
6 in 2006 as well would be extremely difficult. The time and resources
7 required to make the billing changes Dr. Goins is proposing should also be
8 evaluated in light of the fact that the CILC rate schedules have been closed
9 to new customers for a number of years.

10 **Q. Please describe the calculation of Dr. Goins' proposed adjustment.**

11 A. As described by Dr. Goins, this adjustment is implemented by excluding the
12 cost of "gas turbine production capacity" expressed on a cents/kWh basis
13 from the energy charge for the CILC rate schedules. Dr. Goins specifies
14 "gas turbine production capacity" in numerous references in his testimony
15 (Direct Testimony, page 17, lines 10-14 and lines 18-21).

16 **Q. Was Dr. Goins' proposed adjustment calculated correctly?**

17 A. No.

18 **Q. What problem did you find with the calculation of Dr. Goins' proposed
19 adjustment?**

20 A. Dr. Goins intended to base his adjustment to the CILC energy charge on the
21 cost of gas turbine production but instead used the costs for both gas
22 turbines and combined cycle production units. As shown in the cost of
23 service study filed in this docket, there are three production cost categories:
24 Steam; Nuclear; and Other. These three categories are shown in MFR E-1,

1 E-3a and E-4a. Additional detail on the composition of "Other Production"
2 plant was provided in MFR B-8. MFR B-8 shows that the Other Production
3 cost category includes the cost of gas turbines at Ft. Myers, Ft. Lauderdale,
4 and Port Everglades. That category, however, also includes the combined
5 cycle units at Ft. Myers, Manatee, Martin, Putnam, and Sanford power
6 plants. MFR B-8 shows that less than 10% of the Total Other Production
7 cost category is attributable to gas turbine units. Combined cycle units,
8 which clearly represent the bulk of FPL's Other Production resources, were
9 not intended to be included in Dr. Goins' proposed adjustment and, indeed,
10 given their substantially different operating characteristics during periods
11 other than the system peak, should not be included in any such adjustment.
12 Thus, Dr. Goins calculations drastically overstate the impact from excluding
13 the energy-related portion of gas turbines because he excludes both gas
14 turbines and combined cycle units in his calculation.

15 **Q. Why did Dr. Goins assume that the Other Production cost category**
16 **consisted strictly of gas turbines?**

17 A. In MFR E-6 a row heading which should have read "combined cycle and
18 gas turbines" was inadvertently truncated as "gas turbines." While I regret
19 any confusion this may have caused, it in no way altered the results of the
20 cost of service study because the treatment of both gas turbines and
21 combined cycle units is identical under FPL's proposed cost of service
22 methodology. Given that there is no reason in that methodology for
23 isolating the cost of gas turbines for a unique cost treatment, there was no

1 way to predict that MFR E-6 would have been interpreted and used in the
2 manner that Dr. Goins has interpreted it.

3 **Q. What impact did excluding the cost of combined cycle units have on Dr.**
4 **Goins' proposed CILC energy charges?**

5 A. As I mentioned earlier, gas turbine units account for approximately less
6 than 10% of Other Production plant in service. Thus, an adjustment
7 designed to reflect the exclusion of gas turbine units would be only a small
8 fraction of the amount Dr. Goins calculates.

9 **Q. Please summarize your conclusions regarding the testimony of Dr.**
10 **Goins.**

11 A. My review of Dr. Goins' testimony has highlighted numerous
12 inconsistencies and has shown how the proposed adjustment to the energy
13 charge for the CILC rate classes has not been calculated correctly. Dr.
14 Goins proposed adjustment should be rejected.

15

16 **HIGH LOAD FACTOR TIME-OF-USE (HLFT) RATE**

17 **Q. Please address Mr. Selecky's comment on page 26 of his testimony that**
18 **a high load factor customer will generally be cheaper to serve than a**
19 **customer with a lower load factor.**

20 A. Higher load factor customers may or may not be cheaper to serve than other
21 customers depending on the type of cost in question. If we are looking at
22 costs driven by localized peaks, such as distribution costs, then yes, high
23 load factor customers are less expensive to serve on a per kWh basis. On
24 the other hand, if we are considering costs driven by the system peak, then

1 the cost of serving a customer depends on *timing* of their load. Many lower
2 load factor customers contribute less to the system peak than do higher load
3 factor customers by virtue of the fact that they are simply using electricity
4 in fewer hours and therefore may not have substantial usage at the time of
5 the system peak. In fact, a positive relationship between load factor and
6 coincidence factor has long been recognized in ratemaking. In other words,
7 higher load factor customers are more likely to be consuming at the time of
8 the system peak than are lower load factor customers.

9 **Q. How does the relationship between load factor and coincidence factor**
10 **support FPL's proposed HLFT rate?**

11 A. While there is the positive relationship between load factor and coincident
12 factor, above a certain threshold increases in load factor are likely to be
13 associated with progressively smaller increases in a customer's coincident
14 factor. As illustrated in Document No. RM-16, this threshold occurs around
15 a load factor of 70%. In addition, because the timing of a customer's load is
16 critical, it is important that the HLFT rate encourage customers to maintain
17 or increase their load factor only to the extent that kWh are added during the
18 off-peak period. This is why the on-peak energy charge under the HLFT
19 rate is significantly higher than the off-peak energy charge.

20 **Q. On page 27 of his direct testimony, Mr. Selecky asserts that FPL's**
21 **choice of a 70% load factor break-even calculation was arbitrary. Do**
22 **you agree?**

23 A. No. As described above, the decision to use a 70% load factor to calculate
24 the break-even point was based on the load characteristics of the eligible

1 rate classes. By contrast, the 65% load factor break-even calculation
2 advocated by Mr. Selecky represents the average load factor for the rate
3 class. Rather than recognizing higher than normal load factor usage, Mr.
4 Selecky's proposed rate would reward customers with nearly average load
5 factors.

6 **Q. Has the Commission previously approved optional rates based on load**
7 **factor?**

8 A. Yes. There are numerous examples (Docket No. 74437-EU, Order No.
9 6650; Docket No. 920821-EM, Order No. PSC-92-1006-FOF-EM; Docket
10 No. 020883-EC, Order No. PSC-02-1630-TRF-EC). In past cases, rates
11 based on a threshold load factor of 70-75% have also been approved.

12 **Q. Do you agree with Mr. Selecky's assertion that FPL's choice of a 70%**
13 **load factor break-even calculation was limiting?**

14 A. No. MFR E-13c shows 28% of the kWh sales from the eligible rate classes
15 will qualify for the HLFT rate. In total, customers qualifying for and saving
16 under the HLFT rate will represent 9.9 billion kWh. By any measure, this is
17 far from limiting.

18 **Q. What is the revenue impact of providing a high load factor rate with a**
19 **70% break-even point?**

20 A. Use of a 70% break-even point results in total annual customer savings of
21 approximately \$17 million. Again, this is not the revenue impact one would
22 associate with an offering of "limited" applicability.

23

24

1 **Q. How would this revenue impact be altered by Mr. Selecky's proposed**
2 **65% load factor break-even point?**

3 A. Use of a 65% break-even point would increase the revenue loss associated
4 with the HLFT rate by almost 60%, to \$27 million.

5 **Q. Does Mr. Selecky suggest which customers should offset this additional**
6 **revenue loss?**

7 A. No.

8 **Q. How would the added revenue loss – approximately \$10 million – be**
9 **recovered?**

10 A. Clearly, the rates paid by other customers would have to increase to offset
11 this revenue loss.

12

13 **TURKEY POINT UNIT 5 ADJUSTMENT**

14 **Q. Please summarize your direct testimony with regard to the Turkey**
15 **Point Unit 5 adjustment.**

16 A. Consistent with the treatment of production plant in the 2006 test year I
17 have allocated the plant cost of the Turkey Point Unit 5 on the basis of 12
18 CP and 1/13th and proposed an adjustment to the energy charges of each rate
19 schedule to recover these costs.

20 **Q. Have the intervenors addressed the proposed rate adjustments for**
21 **Turkey Point Unit 5?**

22 A. Yes. Mr. Baron (Direct Testimony, page 52, lines 4-11) and Mr. Selecky
23 (Direct Testimony, page 29, lines 3-8) oppose the recovery of Turkey Point
24 Unit 5 through kWh energy charges. However, as I have already

1 demonstrated, kWh sales do a better job of tracking 12 CP than does billing
2 kW. The vast majority of Turkey Point Unit 5 costs are allocated on the
3 basis of 12 CP. Accordingly, the recovery of Turkey Point Unit 5 costs
4 through the kWh energy charges is appropriate.

5

6

OVERVIEW OF COMMERCIAL RATES

7 **Q. Are there any other issues regarding the Company's proposed rates**
8 **you would like to address?**

9 A. Yes. Mr. Selecky claims that electric rates are a significant measure of
10 performance and that, by this measure, the Company's performance is not
11 superior (Direct Testimony, page 5, lines 20-33). In support of this
12 contention, Mr. Selecky manipulates data from the Edison Electric Institute
13 (EEI) Typical Bills and Average Rates Reports for Summer 2004 (Summer
14 Survey) and Winter 2005 (Winter Survey) to allegedly demonstrate that the
15 Company's electric rates are in the top quartile of its peers.

16 **Q. Do you believe Mr. Selecky's analysis is valid?**

17 A. No. First of all, Mr. Selecky's analysis is based on total bill calculations
18 which include fuel, clauses and taxes, items which are not at issue in this
19 proceeding. In addition, Mr. Selecky limits his comparisons to electric
20 utilities in the South, a region which according to EEI possesses among the
21 lowest electric rates in the country. To further skew the analysis, Mr.
22 Selecky does not simply average the results of the Summer Survey and
23 Winter Survey but instead disproportionately weights the Winter Survey
24 results.

1 **Q. Please explain.**

2 A. EEI reports a typical FPL 1,000 kWh residential bill of \$86.43 and \$89.92
3 for the Summer and Winter Surveys respectively. The arithmetic average of
4 these two figures is \$88.18 or 8.82 cents per kWh. Mr. Selecky, however,
5 uses a figure of 8.88 cents for FPL. This figure appears to be the result of a
6 seasonal weighting that places a 67% weight on the Winter Survey and a
7 33% weighting on the Summer Survey. Because FPL's sales during the
8 summer months substantially exceed its winter sales, an argument could be
9 made that if any weighting of the results is to be done, the heavier weight
10 should be placed on the results of the Summer Survey. The only rationale
11 for placing undue emphasis on the Winter Survey appears to be an effort to
12 deflate the figures for other utilities, such as Progress North Carolina, which
13 offer lower seasonal rates in the winter.

14 **Q. What information can be drawn from the EEI reports in terms of the**
15 **Company's rates versus those of other electric utilities?**

16 A. Bear in mind that total bill comparisons, such as those reported by EEI,
17 include fuel and other clauses which are not at issue in this proceeding.
18 Nevertheless, the Company's residential rates are comparable to national
19 averages based on the EEI reports. As shown in Document No. RM-17, the
20 typical bills reported in the Summer Survey and the Winter Survey are, on
21 average, less than the national typical bills reported for the same period. In
22 light of the fact that almost 90% of the Company's customer base is
23 residential, this is the most significant bill comparison that can be drawn
24 from the EEI reports.

1 **Q. What about the rates for commercial and industrial customers?**

2 A. Following the same procedure of averaging the Winter Survey and Summer
3 Survey results, the Company's typical commercial bills are comparable to
4 the national averages while typical industrial bills are slightly higher.

5 **Q. Does this mean that FPL's industrial customers are paying more on
6 average than customers nationally while commercial customers are
7 paying about the same as customers nationally?**

8 A. I think it would be premature to draw that conclusion based strictly on the
9 typical bill surveys. Because of the diversity of rate options available to
10 them, typical bill comparisons are not as meaningful for commercial and
11 industrial customers as they are for residential customers. For example, 20
12 out of FPL's 30 rate schedules are designed for commercial and industrial
13 customers. The typical bill calculations reported for FPL in the EEI reports,
14 however, are based strictly on standard general service demand rates.
15 Customers taking advantage of time-of-use, curtailable service, and load
16 control options would pay lower rates. In fact, a substantial percentage of
17 FPL's eligible customers are doing just that. For example, 37% of
18 commercial customers with demands of 500 kW or higher are on rate
19 options not incorporated into the EEI typical bill calculations. The
20 percentage of industrial customers with demands of 1,000 kW or higher is
21 even more dramatic with 83% of those on rate options not incorporated into
22 the EEI survey.

23 **Q. What impact would these rate options have on the typical bill
24 calculations of commercial and industrial customers?**

1 A. As shown in Document No. RM-17, I have recalculated the typical bills
2 reported for FPL using one of the rate options commercial and industrial
3 customers are taking service under, CILC-1D. Based on the CILC-1D rate,
4 FPL's typical bills for both commercial and industrial are lower than the
5 national averages.

6 **Q. CILC is sometimes viewed as an option limited to industrial customers.**
7 **Do any commercial customers take service on CILC?**

8 A. Absolutely. In fact, three quarters of FPL's CILC customers are
9 commercial.

10 **Q. Has anyone raised the rate options available to commercial customers**
11 **as an issue in this case?**

12 A. Yes. Ms. Civic and Mr. Galura in panel testimony for the Commercial
13 Group claim that there have been few rate schedules tailored to the needs of
14 their facilities.

15 **Q. Is this assessment accurate?**

16 A. No. The only way that their testimony would be accurate is if one focused
17 exclusively on rate schedules tailored to the specific needs of the
18 Commercial Group as a special discount which is available only to their
19 members. On the other hand, however, if one defines a rate schedule
20 "tailored to their needs" as an optional rate which similarly situated
21 customers may elect, then FPL offers several rate schedules tailored to the
22 needs of customers in the retail sector. Customers operating in the retail
23 sector are taking service under a variety of FPL's rate options, including
24 time-of-use, CILC, the Commercial/Industrial Demand Reduction (CDR)

1 Rider, and curtailable service. Moreover, the optional HLFT rate proposed
2 by FPL will provide savings for a substantial number of customers in the
3 retail sector, including those in the Commercial Group.

4 **Q. Will all of the facilities represented by the Commercial Group qualify**
5 **for the optional HLFT rate?**

6 A. No. The facilities represented by the Commercial Group are not a
7 homogeneous group, at least in terms of their load characteristics.
8 Nonetheless, three of out four of the Commercial Group's members will
9 have qualifying facilities. In fact, it appears that in some cases the vast
10 majority of the customer's facilities will qualify based on the 70% load
11 factor proposed by the Company. The facilities associated with the fourth
12 customer within the Commercial Group have substantially lower load
13 factors and will not qualify for the HLFT rate - nor would they qualify even
14 based on the 65% load factor breakeven proposed by the Commercial
15 Group. Given the lack of homogeneity within the Commercial Group's
16 facilities it appears that designing a rate "tailored to the needs" of every
17 facility they represent is not possible.

18

19

CONCLUSION

20 **Q. Please summarize your rebuttal testimony.**

21 A. The intervenors representing larger C/I customers have filed testimony
22 proposing to allocate costs away from the customers they are representing
23 and onto the residential and smaller commercial customers. The price tag
24 for their proposals is high. Consider, for example, just two of the

1 recommendations of the Commercial Group, the use of the 150% rule-of-
2 thumb and a 65% load factor threshold for the HLFT rate. In combination,
3 these two proposals alone would allocate an additional \$28 million to
4 smaller customers. The use of cost of service methodologies not supported
5 by Commission precedent, but advocated by intervenors in this case, would
6 surely add to this figure. The Commission should reject the proposals by
7 intervenors to alter the cost of service methodologies and rate design as
8 proposed by FPL.

9 **Q. Does this conclude your testimony?**

10 A. Yes

1 STATE OF FLORIDA)
 2 : CERTIFICATE OF REPORTER
 3 COUNTY OF LEON)

4 I, LINDA BOLES, RPR, CRR, Official Commission
 5 Reporter, do hereby certify that the foregoing prefiled
 6 testimony was assembled under my direct supervision.

7 I FURTHER CERTIFY that I am not a relative, employee,
 8 attorney or counsel of any of the parties, nor am I a relative
 9 or employee of any of the parties' attorneys or counsel
 10 connected with the action, nor am I financially interested in
 11 the action.

12 DATED THIS 24TH DAY OF AUGUST, 2005.

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Linda Boles

 LINDA BOLES, RPR, CRR
 FPSC Official Commission Reporter
 (850) 413-6734