

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

IN RE: PETITION FOR INCREASE  
IN RATES BY GULF POWER COMPANY.

DOCKET NO. 110138-EI

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PROCEEDINGS: HEARING

COMMISSIONERS  
PARTICIPATING: CHAIRMAN ART GRAHAM  
COMMISSIONER LISA POLAK EDGAR  
COMMISSIONER RONALD A. BRISÉ  
COMMISSIONER EDUARDO E. BALBIS  
COMMISSIONER JULIE I. BROWN

DATE: Wednesday, December 14, 2011

TIME: Recommended at 9:30 a.m.

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

REPORTED BY: MARY ALLEN NEEL, RPR, FPR

APPEARANCES: (As heretofore stated.)

DOCUMENT NUMBER 09026 DEC 19 =

FPSC-COMMISSION CLERK

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## P R O C E E D I N G S

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2 (Transcript continues in sequence from  
3 Volume 8.)

4 CHAIRMAN GRAHAM: Next witness.

5 MR. SAYLER: Mr. Chairman, the Office of  
6 Public Counsel would call Helmuth W. Schultz III to  
7 the stand.

8 And, Mr. Chairman, just like Mr. McGlothlin  
9 stated, we passed out three other exhibits, and  
10 these are various errata to the other witnesses.  
11 If you would like, we can maybe identify those now  
12 at this time or do them with each witness as they  
13 come in. It's at your pleasure.

14 CHAIRMAN GRAHAM: We'll do it with each  
15 witness, but we'll give this one right now 206. Do  
16 you have a description for it?

17 MR. SAYLER: Errata to direct testimony and  
18 subsequent revised schedules, or maybe errata to  
19 testimony of Schultz.

20 CHAIRMAN GRAHAM: Errata to direct testimony  
21 for Schultz.

22 MR. SAYLER: With schedules.

23 (Exhibit Number 206 was marked for  
24 identification.)

25 Thereupon,

1 HELMUTH W. SCHULTZ III

2 was called as a witness and, having been first duly  
3 sworn, was examined and testified as follows:

4 DIRECT EXAMINATION

5 BY MR. SAYLER:

6 Q. Good morning, Mr. Schultz. Have you been  
7 previously sworn?

8 A. Yes, I was sworn in yesterday.

9 Q. All right. Would you please state your name  
10 and business address for the record.

11 A. My name is Helmuth W. Schultz III. My  
12 business address is Larkin & Associates, PLLC, 15728  
13 Farmington Road, Livonia, Michigan.

14 Q. And you are employed by Larkin & Associates?

15 A. Yes, I am.

16 Q. And in what capacity?

17 A. I am a senior regulatory analyst.

18 Q. All right. On behalf of the Office of Public  
19 Counsel, did you prepare and submit direct testimony in  
20 this proceeding on October 14, 2011?

21 A. I did.

22 Q. And do you have that testimony with you?

23 A. I do.

24 Q. And do you have any corrections or revisions  
25 to make to your prefiled direct testimony?

1           A.    I do.

2           Q.    And are these shown in the exhibit labeled  
3 206?

4           A.    They are, with the exception of one additional  
5 errata that I noted in flight here.

6           THE COURT: All right. Mr. Chairman, would  
7 you like him to go through the errata in the  
8 exhibit or --

9           CHAIRMAN GRAHAM: (Shaking head.)

10          MR. SAYLER: Okay.

11          BY MR. SAYLER:

12          Q.    Well, with the exception of the errata in your  
13 exhibit, would you let us know what the changes to your  
14 testimony that is not on this exhibit sheet?

15          A.    On page 32, line 24 --

16          Q.    Yes, sir.

17          A.    The words "over the" should be deleted.

18          Q.    Okay. Any other changes to your direct  
19 prefiled testimony?

20          A.    No, that takes care of all of them.

21          Q.    All right. And as modified and corrected by  
22 this exhibit and your oral modification, do you adopt  
23 the prefiled testimony as your testimony today?

24          A.    I do.

25          MR. SAYLER: All right. Mr. Chairman, I ask

1           that the prefiled testimony be inserted into the  
2           record as though read.

3                   CHAIRMAN GRAHAM: We will insert Mr. Schultz's  
4           testimony, prefiled direct testimony into the  
5           record as though read.

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1 A. Yes. Yes, I have attached Exhibit No. \_\_\_\_ (HWS-1), which is labeled H.W.  
2 Schultz, III Schedules, and contains Schedules C-1 through C-4. Also attached as  
3 Exhibit No.\_\_(HWS-2), entitled Qualifications of Helmuth W. Schultz, III, is a  
4 summary of my background, experience and qualifications.  
5

6 **Q. BY WHOM WERE YOU RETAINED, AND WHAT IS THE PURPOSE OF**  
7 **YOUR TESTIMONY?**

8 A. Larkin & Associates, P.L.L.C., was retained by the Florida Office of Public  
9 Counsel (“OPC”) to review the rate increase requested by Gulf Power Company  
10 (“Company” or “Gulf”). Accordingly, I am appearing on behalf of the citizens of  
11 Florida (“Citizens”) who are customers of Gulf.  
12

13 **II. BACKGROUND**

14 **Q. PLEASE BRIEFLY DESCRIBE THE ISSUES YOU WILL BE**  
15 **ADDRESSING IN THIS PROCEEDING.**  
16

17 A. I am addressing the appropriateness of the Company’s recovery on Plant  
18 Held for Future Use for the land and costs for a possible nuclear facility, the  
19 annual expense for the storm reserve accrual, tree trimming, pole inspections,  
20 production maintenance and the recovery of Directors and Officers Liability  
21 (“DOL”) Insurance.  
22  
23  
24  
25

1           **III. PLANT HELD FOR FUTURE USE-NUCLEAR SITE COST**

2

3   **Q.    WOULD YOU PLEASE DESCRIBE GULF'S REQUEST TO INCLUDE**  
4           **AN ADDITIONAL \$26,751,000 (JURISDICTIONAL) OF PLANT HELD**  
5           **FOR FUTURE USE ("PHFU") IN THE RATE BASE FOR RECOVERY**  
6           **FROM RATEPAYERS?**

7    A.    Yes.    The Company has deferred approximately \$27.7 million (\$26.7  
8           jurisdictional) in costs it has incurred for procuring a 4,000 acre site in North  
9           Escambia County to "preserve a nuclear option for its customers." The Company  
10          indicated that this site is suitable for other generation technologies as well. The  
11          Company is now requesting to cease deferring these costs and include them in  
12          rate base as PHFU. As can be seen on Mr. McMillan's Schedule 2, page 2 of 2,  
13          line 9, the Company's proposed increase to PHFU is \$27.687 million on a total  
14          company basis and \$26.751 million on a jurisdictional basis. According to the  
15          Company's response to Staff's Fifth Set of Interrogatories, No. 47, the total  
16          Company amount is comprised of approximately \$19 million for site acquisition  
17          costs; \$4.5 million for site investigation costs; \$1.2 million for legal fees, project  
18          support costs, and generation studies, and "Project Frank"; and an additional \$3.0  
19          million of Allowance for Funds Used During Construction ("AFUDC") carrying  
20          costs. It is unclear as to whether the costs other than land costs have been  
21          incurred or are instead projected to be incurred.

22

23   **Q.    WHAT IS THE CURRENT DOLLAR AMOUNT OF PHFU INCLUDED IN**  
24           **THE COMPANY'S RATE BASE?**

1 A. On a total Company basis, the amount of PHFU included in rate base prior to the  
2 nuclear site cost adjustment is \$5,665,000. The jurisdictional amount is  
3 \$5,482,000.  
4

5 **Q. WHAT EFFECT WOULD THE INCLUSION OF THE COMPANY'S**  
6 **REQUEST TO INCREASE PHFU HAVE ON THE COMPANY'S**  
7 **REVENUE REQUIREMENT?**

8 A. Based on the Company's requested rate of return, the current jurisdictional  
9 amount of PHFU translates to an approximate revenue requirement of \$632,000  
10 annually. If the Commission approves Gulf's request, the jurisdictional revenue  
11 requirement that would be associated with adding the \$26.7 million to rate base as  
12 PHFU is \$3,083,000, as shown on Mr. McMillan's Schedule 2, page 2 of 2, line 9,  
13 column 4. Including the Company's requested increase to PHFU would increase  
14 the revenue requirement for ratepayers associated with PHFU by approximately  
15 487%. Therefore, this increase would increase the current revenue requirement  
16 associated with PHFU from approximately \$632,000 to a total of \$3,715,000.  
17

18 **Q. HAS GULF PROVIDED A BASIS FOR INCLUDING THIS SIGNIFICANT**  
19 **INCREASE IN PLANT HELD FOR FUTURE USE IN CURRENT RATES**  
20 **TO BE RECOVERED FROM RATEPAYERS?**

21 A. Gulf has provided arguments, which I discuss below, that are not supported by  
22 any studies or other information which would justify the inclusion of such a  
23 significant increase in PHFU in rate base and recovered from ratepayers.  
24

1 Q. WHOSE TESTIMONY SUPPORTS THE INCLUSION OF THIS LARGE  
2 DOLLAR AMOUNT IN PHFU?

3 A. Company witnesses McMillan and Burroughs both include arguments purporting  
4 to support this investment as being prudent and reasonable for inclusion in rate  
5 base.

6

7 Q. WOULD YOU DISCUSS EACH OF THE WITNESSES' TESTIMONY  
8 AND THE ARGUMENTS THEY PRESENT?

9 A. Yes. Mr. McMillan refers to Section 366.93, Florida Statutes, ("F.S."), as  
10 justification for including this dollar amount of PHFU in rate base and makes the  
11 following statement in his direct testimony: "In deciding to pursue consideration  
12 of nuclear generation, Gulf relied on the recovery provided by this statute."

13

14 Q. WHAT IS YOUR UNDERSTANDING OF SECTION 366.93, FLORIDA  
15 STATUTES?

16 A. Section 366.93, F.S. provides for "cost recovery for the siting, design, licensing  
17 and construction of nuclear and integrated gasification combined cycle power  
18 plants." It is my understanding that this statute allows a utility to petition the  
19 Commission for recovery of costs related to either a nuclear plant or an integrated  
20 gasification combined cycle plant through the utility's capacity cost recovery  
21 clause. I have been informed by Counsel for the OPC, of OPC's opinion that this  
22 statute does not apply to the Gulf's request. Section 366.93(3), F.S, states that  
23 "After a petition for determination of need is granted, a utility may petition the  
24 Commission for cost recovery as permitted by this section and the Commission's  
25 rules." (Emphasis added). Counsel for OPC has informed me that the

1 Commission implemented this provision with a rule that provides for recovery of  
2 certain costs via a cost recovery clause that is separate from base rates. Thus, it is  
3 only after the need determination for the plant has been approved by the  
4 Commission will cost recovery be included under the nuclear cost recovery  
5 statute, and such recovery would take place outside of base rates. Therefore,  
6 Gulf's attempt to invoke Section 366.93, F.S. fails.

7  
8 **Q. HAS GULF FILED A PETITION FOR DETERMINATION OF NEED?**

9 A. No. Gulf has not requested or filed a petition for determination of need. In  
10 response to Citizens Interrogatory No. 24 the Company stated the following:

11           ...the Company does not currently have a need to construct  
12           generation facilities; therefore, the Company does not plan to file a  
13           petition for determination of need for a nuclear plant (or any  
14           generation) in the near future.

15  
16 Since Gulf admits that it does not plan to file a petition for determination of need  
17 for a nuclear plant in the near future, the Company's purchase of this site is based  
18 on nothing more than speculation that nuclear generation *might* be a viable option  
19 for its customers at some time in the future. Further, because no petition has been  
20 filed for a determination of need which satisfies the requirements of Section  
21 366.93(3), F.S., the costs associated with the purchase of this land should not be  
22 included in PHFU pursuant to Section 366.93, F.S.

23  
24 **Q. MR. MCMILLAN ALSO STATES THE FOLLOWING: "GULF**  
25 **BELIEVES THAT NUCLEAR IS A VIABLE OPTION THAT BENEFITS**  
26 **CUSTOMERS UNDER A RANGE OF SCENARIOS." HAS GULF**  
27 **IDENTIFIED THESE VIABLE OPTIONS TO WHICH MR. MCMILLIAN**

1           **REFERS IN A NEED DETERMINATION PETITION TO THE FLORIDA**  
2           **PUBLIC SERVICE COMMISSION?**

3    A.    I do not believe so. I am unaware of any petition that Gulf has filed with the  
4           Commission to justify any nuclear expansion of its generating facilities. As  
5           previously mentioned, a petition for “determination of need” must be granted  
6           before the Company can petition the Commission for cost recovery as permitted  
7           under Section 366.93, F.S. The Company has not filed any such needs petition or  
8           studies regarding the “range of scenarios” to which Mr. McMillan refers.

9  
10   **Q.    HAS GULF DEMONSTRATED THAT THE ADDITION OF A NUCLEAR**  
11           **UNIT TO GULF’S GENERATING PORTFOLIO MAKES ANY SENSE**  
12           **FROM AN OPERATIONAL STANDPOINT?**

13   A.    No. The following observations are based as much on common sense as any  
14           technical analysis. Logically, the unit added by a utility should match the  
15           requirements that the utility has demonstrated are necessary to meet the demand  
16           and energy requirements which are projected for the utility cost-effectively. Gulf  
17           has not presented any documentation, studies, or analyses which satisfy this  
18           general rule. Second, most nuclear units that have been proposed are in the range  
19           of 1,200 megawatts, which would result in a net generation capacity addition to  
20           the system of about 1,150 megawatts. Gulf’s 2010 system peak was 2,553  
21           megawatts. A unit of this size could be 45% of Gulf’s system peak. The peak  
22           load on the Gulf system through July 31, 2011 was 2,495 megawatts. If this  
23           nuclear unit’s net generation is 1,150 megawatts that would equate to 46% of that  
24           2011 year-to-date peak. I am not aware of any electric utility that has a single  
25           unit that amounts to that large of a percentage of the system peak.

1 **Q. ARE YOU AWARE OF ANY COMPANY THE SIZE OF GULF WHICH**  
2 **HAS LESS THAN 500,000 CUSTOMERS THAT HAS CONSTRUCTED A**  
3 **NUCLEAR PLANT FOR ITS OWN USE?**

4 A. No, I am not. I asked the Company if it was aware of any company with less than  
5 500,000 customers that had constructed a nuclear plant for its own use. Gulf's  
6 answer to Citizens Interrogatory No. 109 was "Gulf does not know whether any  
7 company with less than 500,000 customers has constructed a nuclear plant for its  
8 own exclusive use." It would seem that since the Company has contemplated  
9 construction of a nuclear plant, that it would have investigated to see if any  
10 company of a similar size has a nuclear plant, and whether that nuclear plant has  
11 been economic for its customers.

12 It is also my understanding that much larger utilities in Florida, namely  
13 Florida Power & Light and Progress Energy Florida, have been delaying the  
14 construction of nuclear plants further into the future because they cannot be  
15 justified on the basis of need. It is hard to believe that Gulf, a company far  
16 smaller than these two companies, could justify a nuclear plant for its own needs  
17 at any time.

18

19 **Q. DID THE COMPANY INDICATE THAT IT MIGHT SEEK OTHER**  
20 **PARTICIPANTS TO CO-OWN THE FACILITY?**

21 A. Yes. In its response to Citizens Interrogatory No. 109, part "e", the Company  
22 stated:

23 Depending on the actual type and timing of an eventual generating  
24 resource addition constructed on the site, Gulf may seek the  
25 participation of potential co-owners in order to facilitate the  
26 addition. Such co-owners may potentially be other companies  
27 within the Southern electric system or unaffiliated companies.

1 **Q. IF THAT IS THE CASE AND GULF DOES SEEK OTHER CO-OWNERS**  
2 **WHEN AND IF THIS SITE IS EVENTUALLY USED, WOULD THAT**  
3 **JUSTIFY ITS INCLUSION IN THE COMPANY'S RATE BASE?**

4 A. No, it supports just the opposite conclusion. Gulf does not anticipate needing  
5 capacity until the year 2022, when the current resource plan indicates that 30  
6 megawatts might be needed. If Gulf were to add 1,150 megawatts of net nuclear  
7 generating capacity to meet its need, its reserve margin would be approximately  
8 40%. This would suggest that Gulf cannot seriously regard nuclear expansion for  
9 Gulf's needs only. If a nuclear unit ever makes sense, it will be in the context of  
10 shared ownership or sales to other entities. If the cost of this land were added to  
11 the rate base using the Company's requested rate of return, the annual carrying  
12 cost would be \$3,083,000. Over the 10-year period between January 2012 and  
13 January 2022, the earliest year in which Gulf projects a need for capacity (and not  
14 necessarily the date that Gulf would target as the in-service date of a nuclear unit),  
15 ratepayers would have paid \$30,830,000 in carrying charges on this piece of  
16 property, which Gulf admits may have other co-owners in order to build a nuclear  
17 plant. In other words, if Gulf is allowed to place the property in rate base now,  
18 Gulf ratepayers would be subsidizing some future owner of this property if and  
19 when a nuclear unit is ever built. Viewed strictly from the perspective of Gulf's  
20 ratepayers, the idea of Gulf pursuing a nuclear unit makes no sense at all.

21

22 **Q. WOULD YOU PLEASE DISCUSS THE COST WHICH THE COMPANY**  
23 **HAS INCLUDED IN THE PLANT HELD FOR FUTURE USE WHICH IT**  
24 **SEEKS TO RECOVER A CARRYING CHARGE FROM RATEPAYERS?**



1 A. Yes. The total Company dollar amount which it seeks to put in rate base is  
2 \$27,687,440. Of this amount approximately \$4.5 million is cost incurred for site  
3 investigation. It appears that most of these costs were (or will be) incurred to  
4 determine whether this property would be suitable for a nuclear plant. It would  
5 not seem appropriate to charge ratepayers for costs such as these if the Company  
6 contemplates other parties sharing in the ownership of this plant. In addition, the  
7 Company has included an amount of approximately \$187,000 which it has  
8 entitled "Needs Determination Filing." As of the date of this filing, Gulf has no  
9 docket opened to address any such nuclear need determination before the Florida  
10 Public Service Commission. Regardless, the need determination filing costs are  
11 not appropriate costs to include in Plant Held for Future Use.

12 In addition, approximately \$650,000 of costs were incurred by Southern  
13 Company and Gulf for travel expenses, resource planning, and legal fees. Again,  
14 these costs seem extremely high given the fact that there is no definite plan,  
15 nuclear or otherwise, for this piece of property. Finally, there is a cost which is  
16 labeled "Project Frank" which has no other explanation. This cost is  
17 approximately \$370,000. These costs likewise are not appropriate costs to  
18 include in Plant Held for Future Use.

19

20 **Q. DOES THE COMMISSION HAVE A STANDARD THAT IT APPLIES**  
21 **WHEN IT ALLOWS PROPERTY TO BE INCLUDED IN PHFU?**

22 A. By Order No. 5471 in Docket No. 71342-EU, issued June 30, 1972, the  
23 Commission considered the issue of whether to include costs associated with the  
24 Caryville plant site. The Commission stated the following:

1 . . . we conclude that so long as the acquisition of the property in  
2 question is considered a responsible and prudent investment and it  
3 appears that it will be used for utility purposes in the reasonably  
4 near future, in the light of prevailing conditions, such property  
5 should be included in the utility's rate base."  
6

7 This statement was made in support of including the Caryville site in PHFU. This  
8 approval was in 1972, 39 years ago. The Caryville site still has not been utilized and  
9 the Company does not have any disclosed plans to use this site. Given availability of  
10 the Caryville site, it is not be appropriate to include such a huge dollar amount for the  
11 proposed Escambia site when the need for such an additional site has not been  
12 proven. In my opinion, the acquisition of the Escambia site does not appear to be a  
13 reasonable and prudent investment that will be used for Gulf's system purposes in the  
14 *reasonably* near future.

15

16 **Q. IN ITS RESPONSES TO INTERROGATORIES, DIDN'T GULF**  
17 **INDICATE THAT THIS PROPERTY COULD BE USED FOR**  
18 **GENERATION UNITS OTHER THAN NUCLEAR?**

19 A. Yes. In response to Citizens Interrogatory No. 109, Gulf stated in sub-part "a":

20 Gulf anticipates that this site will accommodate a wide range of  
21 future capacity additions from conventionally fueled baseload, or  
22 intermediate generation facilities to facilities that utilize renewable  
23 fuels.  
24

25 This, however, does not justify ratepayers paying a substantial carrying charge on  
26 this large piece of property. Currently, Gulf has two pieces of property on which  
27 ratepayers have been paying a carrying charge for several years. They are  
28 available for construction of conventional generating facilities.

29

1 **Q. PLEASE DESCRIBE THE OTHER PIECES OF PROPERTY INCLUDED**  
2 **IN PHFU BY GULF.**

3 A. The Caryville site, previously discussed, consists of approximately 2,200 acres in  
4 Holmes County, Florida, with a book value of \$1,356,000 and has been in PHFU  
5 since September 19, 1963. Company witness Burroughs states that the Caryville  
6 site has been certified under the Power Plant Siting Act for a steam electric  
7 generating plant. The Company has another site which has been in PHFU since  
8 October 22, 1998. The Mossy Head property is 250 acres and has a cost of  
9 \$296,000.

10

11 **Q. WAS GULF ASKED TO STATE THE AMOUNT OF CAPACITY WHICH**  
12 **COULD BE BUILT ON THESE SITES?**

13 A. Yes. In Citizens Interrogatory No. 106, Gulf was asked the amount of capacity  
14 which could be built on each of the land sites listed on MFR Schedule B-15.  
15 Gulf's response was:

16           The amount of capacity that could be built on a particular site  
17           would be determined by the generation technology chosen and  
18           Gulf's capacity needs at the time the generation site is developed.  
19

20 The Company did not provide any information regarding its plans with these two  
21 sites and what amount of capacity would be available to the Company. However,  
22 I have seen old orders of the Commission indicating that in the 1970s Gulf  
23 intended to construct a 500 MW coal-fired unit at Caryville, so the capacity of the  
24 site is at least 500 MW. Ratepayers have paid and continue to pay a carrying  
25 charge on these two pieces of property since the Commission has allowed them to  
26 be included in rate base.

1 **Q. PLEASE ELABORATE ON THE ORDER WHICH INDICATES THAT**  
2 **THE COMPANY INTENDED TO BUILD A 500 MEGAWATT COAL**  
3 **FIRE GENERATING STATION AT THE CARYVILLE SITE.**

4 A. By Order No. 7453, issued September 30, 1976, in Docket No. 760605-EU, the  
5 Commission noted Gulf's plans to construct a 500 megawatt coal-fired unit near  
6 Caryville, Florida, with a projected completion date in 1982. That unit was never  
7 constructed at the Caryville site, thus the Caryville site is still available for at least  
8 a 500 megawatt unit.

9  
10 **Q. ARE YOU AWARE OF ANY LARGE STEAM GENERATING POWER**  
11 **PLANTS THAT ARE SITED ON PROPERTY THE SIZE OF THE 2,200**  
12 **ACRES OF THE CARYVILLE SITE?**

13 A. Yes. Detroit Edison's Monroe County Plant is located in Michigan and is sited on  
14 1,200 acres of property and has a summer capacity of 3,129 megawatts. It  
15 appears that the 2,200 acre Caryville site, which was previously approved for  
16 coal-fired generation, could hold a substantial amount of capacity which could be  
17 used by Gulf Power.

18 Therefore, with the availability of the Caryville site, Gulf's argument that  
19 the 4,000 acre Escambia property would be available for siting of generation other  
20 than nuclear does not support its request to be included in PHFU. The fact the  
21 Company has held the Caryville property since 1963 and has not put that property  
22 into service is evidence that Gulf does not need to acquire the Escambia site or  
23 place it into rate base as LHFU. Additionally, the smaller Mossy Head site  
24 consisting of 250 acres could at least accommodate a combustion turbine  
25 generating unit.

1 Q. MR. MCMILLAN ALSO STATES "THE PURCHASE OF THIS SITE IS  
2 THUS NECESSARY TO ALLOW GULF TO PRESERVE A NUCLEAR  
3 OPTION FOR ITS CUSTOMERS." HAS GULF PRESENTED ANY  
4 STUDIES TO THIS COMMISSION THAT SHOW THE NECESSITY FOR  
5 ADDITIONAL CAPACITY AND HAVE THOSE STUDIES SHOWN THAT  
6 NUCLEAR ENERGY WOULD BE AN OPTION?

7 A. No. If Gulf has participated in such studies with its parent company, Southern  
8 Company, those studies have not been presented to the Florida Public Service  
9 Commission. It would not be appropriate for the Commission to include these  
10 substantial PHFU costs in rate base supported solely by what can only be  
11 described as the Company's speculative overreaching. Only other affiliate or  
12 non-affiliate utilities could benefit from a decision to allow Gulf to collect now  
13 the full costs of a 4,000 acre site for a nuclear plant that, without the joint  
14 ownership and/or participation of others, would surely "engulf" its customers.

15

16 Q. WHAT ARGUMENTS DOES COMPANY WITNESS BURROUGHS  
17 MAKE TO JUSTIFY THE INCLUSION OF THIS SIGNIFICANT COST  
18 IN PHFU?

19 A. Mr. Burroughs refers to the same underlying justification that Mr. McMillan  
20 offered. He states "Gulf Power evaluates a variety of generation resources to  
21 meet future needs." It is, however, inescapable that the Company's evaluations,  
22 which it states underlies the inclusion of this land in PHFU, have never been  
23 presented to the Florida Public Service Commission or any other party for  
24 scrutiny. He further states, "This broad technological evaluation has implications  
25 in Gulf's approach to land held for future use." If by that he means Gulf's

1 approach has changed such that the acquisition of 4,000 acres of land at a cost of  
2 \$27 million precedes any technical analysis, I submit that shift is not a prudent  
3 one for which customers should bear the costs. There is, however, no study,  
4 evaluation or process that the Company has provided to the Commission to justify  
5 such a substantial addition to PHFU. Mr. McMillan admits on page 23 of his  
6 testimony that recent generation resource additions have not required the use of  
7 any Gulf-owned power plant sites and that the 10-year site plan does not reflect a  
8 need for capacity until the year 2022. The response to Citizen's Interrogatory No.  
9 108 states that the 10-year site plans shows a "potential" generation need of  
10 approximately 30 MW in 2022. This amount hardly justifies the addition or  
11 construction of a nuclear plant with 1150 MW of capacity, or the recovery in  
12 PHFU for \$26 million in unneeded future plant.

13  
14 **Q. WHAT OTHER ARGUMENTS DOES MR. BURROUGHS MAKE TO**  
15 **SUPPORT THE INCLUSION OF SUCH A LARGE DOLLAR AMOUNT**  
16 **IN PHFU?**

17 A. Mr. Burroughs basically makes three arguments to support the increase to PHFU.  
18 The first is that by buying this piece of land and including it in Gulf's rate base it  
19 provides planning flexibility, allowing Gulf to ". . . avoid having to commit to  
20 specific generation technologies during a time of high uncertainties associated  
21 with potential environmental requirements." This argument does not seem to  
22 comport with the Company's justification for inclusion of this land in rate base.  
23 The Company states that they are purchasing this land to "allow Gulf to preserve

1 a nuclear option for its customers.”<sup>1</sup> It seems that the underlying premise of Mr.  
2 McMillan’s testimony is that the purchase preserves the nuclear option for the  
3 Company and its recovery is based on Section 366.93, F.S. even though there has  
4 been no determination of need issued by the Florida Public Service Commission  
5 for a nuclear plant in the Gulf service territory. Mr. McMillan’s reference to  
6 “flexibility” and his acknowledgement that the review of generation technologies  
7 has not taken place undermines Gulf’s contention that the site selection process  
8 for building a nuclear unit has advanced to the point that Gulf is entitled to  
9 recover site selection costs from customers.

10 Mr. Burroughs states that “There are major environmental initiatives being  
11 proposed that could change the face of the electric utility industry,” and “Gulf’s  
12 prospective need for new generation may not be limited to just system growth, but  
13 could involve the retirement of existing resources driven by regulatory changes.”  
14 The Company did not provide any studies, analyses, documents or other support  
15 which show that a nuclear plant would be necessary to address such regulations if  
16 and when they were ever implemented. It appears that the underlying basis for  
17 Mr. Burroughs’ argument for including this significant cost in rate base is  
18 speculative, and not based on any known and measurable standard which is  
19 normally used to justify including costs in utility rates.

20  
21 **Q. HAS GULF, THROUGH MR. MCMILLAN OR MR. BURROUGHS,**  
22 **PRESENTED ANY ANALYSIS OR JUSTIFICATION THAT A NUCLEAR**  
23 **PLANT WOULD BE NECESSARY TO MEET EITHER**  
24 **ENVIRONMENTAL REGULATIONS OR SYSTEM GROWTH?**

---

<sup>1</sup> McMillan Testimony, p. 5, line 21.

1 A. No, and even if they did, a base rate case is not the appropriate forum in which to  
2 examine future plant growth and needs. Mr. Burroughs further states, “Although  
3 there are many uncertainties, it is clear that there are situations in which nuclear  
4 could be a cost-effective solution for meeting long-term additions.” Again, Gulf  
5 has not presented these situations to the Commission in the form of a petition for  
6 determination of need in order to justify any future generation additions or that  
7 nuclear, could in reality, be cost-effective in serving Gulf’s ratepayers.

8

9 **Q. YOU ARE RECOMMENDING THAT THE COMMISSION NOT ALLOW**  
10 **GULF TO INCLUDE THE ESCAMBIA SITE IN RATE BASE. SHOULD**  
11 **THE COMMISSION ALLOW THE COMPANY TO CONTINUE**  
12 **ACCRUING AN AFUDC RETURN ON THE SITE?**

13 A. No. Gulf has presented no basis on which the Commission could conclude that this  
14 site could ever be used cost-effectively to benefit Gulf ratepayers. The Company has  
15 two sites, Caryville and Mossy Head, which have been in PHFU since 1963 and  
16 1998, respectively. Today Gulf has no specific plans to construct capacity on either  
17 of them. Gulf has not shown that the Escambia site is a reasonable and prudent  
18 investment that will be used for utility purposes in the *reasonably* near future. To  
19 allow the Company to accrue AFUDC on an additional 4,000 acres is not justified  
20 from the standpoints of reasonableness and prudence. Thus Gulf should not be  
21 allowed to accrue any carrying costs on the Escambia site.

22

23

24

25



1 **IV. STORM RESERVE ACCRUAL AND RESERVE BALANCE**

2  
3 **Q. DID YOU REVIEW THE COMPANY'S REQUEST FOR AN INCREASE**  
4 **OF \$3.3 MILLION IN THE ANNUAL STORM ACCRUAL?**

5 A. Yes. Gulf witness Constance Erickson recommends an annual accrual of \$6.8  
6 million on a system basis and \$6.539 million on a retail basis. The intent is to  
7 maintain a reserve of between \$52 million and \$98 million. The accrual amount  
8 and the requested reserve are based on an analysis performed by EQECAT Inc.,  
9 an ABS Group Company.

10  
11 **Q. WHAT CONCERNS ARE THERE WITH THE COMPANY'S REQUEST**  
12 **FOR AN INCREASE IN THE ANNUAL STORM ACCRUAL?**

13 A. The Company's request to adjust the storm reserve is excessive based on the  
14 historical charges to the reserve that are intended to be covered by the reserve.  
15 Additionally, the request is not adequately justified by the Company based on the  
16 storm standards established for Florida electric utilities. Since the expiration of  
17 the storm surcharge in June of 2009, and also due to the low level of storm  
18 charges against the reserve since 2005, the Company's reserve has increased  
19 significantly. In fact, Company witness Erickson states in her testimony that  
20 assuming that no property damage is charged during 2011, the reserve will have a  
21 balance of \$31,093,000 at the beginning of the test year. The level of  
22 \$31,093,000 would be just above the mid-point of the Commission's target level  
23 of \$25.1 million to \$36 million for the reserve set in Docket No. 951433-EI.<sup>2</sup>

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<sup>2</sup> See Order No. PSC-96-1334-FOF-EI, issued November 5, 1996, In Re: Petition for approval of special accounting treatment of expenditures related to Hurricane Erin and Hurricane Opal by Gulf Power Company.

1 That suggests the current annual reserve accrual is sufficient, if not excessive, for  
2 the future. I would also like to note that the purpose of the reserve is not limited  
3 to storm protection. It also covers other events not covered by typical insurance  
4 protection. In my discussion of charges against the reserve I will address only  
5 those costs that are storm charges.

6  
7 **Q. DID THE COMPANY USE ANY STUDIES TO DETERMINE THE LEVEL**  
8 **OF ACCRUAL THAT SHOULD BE MADE?**

9 A. No. Even though the Company's witness Erickson states at page 29 of her direct  
10 testimony that "The \$6.8 million represents the expected average annual storm  
11 loss to be charged to the reserve according to Gulf's 2011 Hurricane Loss and  
12 Reserve Performance Analysis (Storm Study)", it is my opinion that the storm  
13 study was not used to determine the level of the proposed accrual. Instead, the  
14 study reflects what the Company decided it wanted to collect in rates. My  
15 opinion is based on my concerns with the focus of the study, the assumptions  
16 made, recent history and the conclusions that resulted from the study. There is  
17 also a concern with what was not factored in the study.

18  
19 **Q. WHAT IS THE CONCERN WITH THE FOCUS OF THE STUDY?**

20 A. The study indicated that damage level of \$8.3 million was based on thousands of  
21 random variable hurricanes, an initial reserve of \$27 million, losses assumed to  
22 increase at 4% per year, a continued annual reserve accrual of \$3.5 million, and  
23 an expected annual charge of \$6.8 million. No alternative assumptions were used  
24 as inputs; therefore, it appears that the conclusion (that the only way to adjust the  
25 accrual was to increase it) was pre-determined. This was essentially confirmed in

1 the response to Citizens' Interrogatory 206, which states that "There is only one  
2 Expected Annual Damage (EAD) calculated", and "Only one storm reserve  
3 simulation was performed."

4 Concern also exists with the fact that the focus was on thousands of  
5 storms, including storms as significant as Ivan and Dennis. It should be noted that  
6 the probability results shown on Table 4-1 of the study are not based on historical  
7 storms but simulated storms (See Gulf's response to Citizens Interrogatory No.  
8 207). While I do believe that historical storm information is relevant, there is a  
9 problem with the use of simulations of thousands of storms that were not specific  
10 to the Gulf service territory. Storm impacts vary depending on geographic area.  
11 According to the response to Citizens Interrogatory No. 210, the Company does  
12 not have storm data available by zip code. That would mean there is no support  
13 for the damage values incorporated into the study. There is also the fact that the  
14 study would include the impact of Ivan and Dennis without performing an  
15 alternative damage calculation that excludes Ivan and Dennis.

16  
17 **Q. WHY IS THERE A CONCERN WITH INCLUDING STORMS LIKE IVAN**  
18 **DENNIS AND KATRINA IN THE DETERMINATION OF DAMAGES**  
19 **CHARGED AGAINST THE STORM RESERVE?**

20 **A.** In its storm cost recovery decision for Progress Energy, the Commission stated  
21 that the 2004 hurricane season was "unprecedented and extraordinary in nature"  
22 and the incremental costs of the 2004 hurricanes did not constitute a base rate  
23 item. That means storms of the magnitude of Ivan, Katrina, and Dennis were also  
24 not intended to be covered by the reserve in and of itself. The Commission  
25 allowed a storm surcharge because the types of storms that occurred during that

1 time frame were extremely unusual and the impact from them was extraordinary.  
2 Allowing costs associated with infrequent storms of that magnitude to be factored  
3 into the size of the reserve inappropriately requires ratepayers to provide funding  
4 for damages that likely will occur only rarely, if at all. If such an event does  
5 occur in the future, the mechanism of the surcharge will be available at that time.

6  
7 **Q. WHAT ARE YOUR CONCERNS WITH THE ASSUMPTIONS**  
8 **INCORPORATED IN THE STUDY?**

9 A. The study prepared for the Company determined an average annual loss of \$8.3  
10 million of which \$6.8 million would be charged against the reserve. This  
11 assumption coupled with the assumption of random storms not specific to the  
12 Gulf service territory significantly impacted the determination of the estimated  
13 reserve results. According to the study (Page 1-1), the loss was computed “using  
14 the results of thousands of random variable storms.” This is exactly what was  
15 deemed a concern with the previously mentioned Progress Energy Florida  
16 hurricane study. As indicated earlier, the use of storm data that may be  
17 applicable to areas outside of the Gulf service territory will skew the results.  
18 There is also the fact that since 2001, with the exception of 2004 and 2005, the  
19 Company has charged only \$0 to \$2.6 million to the reserve for storms in any one  
20 year, or an average of \$575,566. This average is calculated on Exhibit HWS-1,  
21 Schedule C-1, Page 2 of 2.

22 The study at page 10 emphasizes how the impacts of Hurricanes Ivan,  
23 Dennis and Katrina were factored into the loss model. It specifically states, “The  
24 2004-2005 loss history is believed to be most reflective of the current Gulf  
25 hurricane restoration practices and cost experience.” That assumption as described

1 is not appropriate for two reasons. First, the reserve is for major storms that are  
2 not considered extraordinary. Second, the Company has been under direction  
3 from the Commission to perform storm hardening at a heightened level since the  
4 2004-2005 extraordinary storms occurred. To base the results of the study on  
5 2004-2005 practices and cost experience ignores the improvements focused on  
6 since the 2004-2005 storms, as well as the intended purpose of the reserve.  
7

8 **Q. WHY HAVE YOU EXCLUDED 2004 AND 2005 FROM THE AVERAGE**  
9 **YOU CALCULATED?**

10 A. The 2004 and 2005 storms were extraordinary. After application of the then  
11 current storm reserve balance, the costs were recovered through a storm  
12 surcharge. In PEF's Storm Cost Recovery proceeding (Docket No. 041272-EI<sup>3</sup>),  
13 the Commission stated, "PEF contends that the costs of severe storms like the  
14 2004 hurricanes are too volatile, irregular in their occurrence, and unpredictable  
15 to be addressed in base rates." That served as a basis for treating the storm  
16 surcharge recovery mechanism as a vehicle for storms of an extraordinary nature.  
17 Yet, the Company has attempted to justify its storm request based on a study that  
18 did factor in the impacts of those storms.  
19

20 **Q. WHAT ARE YOUR CONCERNS WITH THE COMPANY'S**  
21 **CONCLUSION REGARDING THE STUDY?**

---

<sup>3</sup> See Order No. PSC-06-0772-PAA-EI, issued September 18, 2006, in Docket No. 041272-EI, In Re: Petition for approval of storm cost recovery clause for recovery of extraordinary expenditures related to Hurricanes Charley, Frances, Jeanne, and Ivan, by Progress Energy Florida, Inc.

1 A. Ms. Erickson states in her testimony that, based on the updated study, the  
2 Company's current accrual of \$3.5 million on a system basis, and an estimated  
3 annual charge for damages of \$6.8 million, the expected fund balance in five  
4 years will decline to \$11 million. Ms. Erickson then adds that there is 29 percent  
5 probability that the fund will become negative within the next five years. There  
6 are multiple problems with these hypothetical assumptions. First, absent another  
7 occurrence of storms like Ivan, Dennis and Katrina impacting the Gulf service  
8 territory, the average annual charges were only \$575,566 over an eight year  
9 period. That annual average charge is significantly less than the annual \$6.8  
10 million assumed and requested by the Company. Second, if one assumes no  
11 storm charges through the end of 2011 (i.e. the reserve balance would be \$31.1  
12 million), the annual charges over the next five years continue at \$575,000 and the  
13 Company is allowed a \$6.8 million accrual, the result would be a \$62.2 million  
14 reserve balance as of December 31, 2016. This calculation is shown on Exhibit  
15 HWS-1, Schedule C-1, Page 2 of 2. Based on the Company's study there would  
16 be only a 4% chance of a storm with a \$60 million damage layer occurring that  
17 would deplete that reserve. Third, assuming no storms occur for the remainder of  
18 2011, resulting in charges against the reserve through December 31, 2011, the  
19 current accrual will have established a reserve of \$31.1 million. Based on the  
20 Company's study, there is only an 8% chance a storm with a \$30 million damage  
21 layer occurring and eliminating that reserve. Fourth, the written body of the study  
22 suggests a result based on an unsupported and atypical annual average for typical  
23 storm reserve damage charges. It assumes a very pessimistic, significant storm  
24 occurrence that would result in a possible \$111 million negative reserve. For a  
25 storm to result in a negative \$111million balance there would have to be \$140

1 million of damage (i.e. eliminating the \$30 million reserve and resulting in the  
2 negative balance). The Company study suggests there is a 1% probability of that  
3 happening. The fact is the same study indicates that there is a 24.5% chance that  
4 damages could be \$500,000 or less. Fifth, the 24.5% probability that \$500,000 or  
5 less of damage could occur is comparable to the historical damages charged for  
6 typical reserve charges between 2001 and 2010. This is further corroborated by  
7 the 2011 damages that have been zero to date. Finally, as indicated earlier, the  
8 \$6.8 million request was a predetermined number intended to increase an already  
9 sufficient reserve balance. That is significant, given the recent history of storm  
10 costs charged against the reserve and taking into consideration that the 2004 and  
11 2005 storms factored into the study are storms that are not likely to occur and  
12 should not have been factored into the storm reserve determination purported to  
13 justify the predetermined \$6.8 million result.

14  
15 **Q. WHAT ARE YOUR CONCERNS WITH WHAT WAS NOT FACTORED**  
16 **INTO AND/OR IDENTIFIED IN THE STUDY OR COMPANY**  
17 **TESTIMONY?**

18 A. The Company has expended funds for storm hardening since the 2004 and 2005  
19 storms occurred. The current filing includes a request for continuing storm  
20 hardening costs. There is no indication that the study factored the storm  
21 hardening that has been accomplished to date and that Gulf proposes to continue  
22 in the future.

23 The study includes a number of significant caveats. Page 4 states that the  
24 study provides no guaranty of any kind; that the limited nature of data causes a  
25 level of uncertainty; there is a “significant amount of uncertainty” in the hurricane

1 severity and locations; and asset vulnerabilities, replacement costs and other  
2 computational parameters can cause estimated losses to be significantly different.  
3 Said differently, anything can happen and the results could be significantly  
4 different from what is reflected in the study.

5 Next, a major missing factor in testimony and in the study is an  
6 explanation as to why no alternative annual accruals were considered. As stated  
7 earlier, the study is not what results in the requested reserve accrual; it only shows  
8 what the estimated results may be on the Company's assumption that \$6.8 million  
9 of charges would occur annually and the \$3.5 million was continued as the annual  
10 accrual.

11 Finally, in Docket No. 060154-EI, Gulf hired ABS Consulting to perform  
12 a similar study in support of its request to increase its storm reserve. According to  
13 Mr. McMillan's testimony at pages 11-13, the study indicated that the expected  
14 annual losses to be charged against the reserve would be \$6.4 million. The losses  
15 were based on the "expert forecasts of projected hurricane activity that conclude"  
16 the Company was "in a period of increased storm activity and higher probabilities  
17 of hurricane landfall" (emphasis added). As noted on Exhibit HWS-1, Schedule  
18 C-1 there has not been increased storm activity during the years 2007-2011 that  
19 generated average annual charges of \$6.8 million as the experts had forecasted.  
20 And, based on the response to Citizens' Interrogatory No. 204, the last storm to  
21 make landfall in Gulf's service area was Hurricane Dennis in 2005. Had the  
22 Company taken into account the fact that the expectations from the last study  
23 differed significantly from the subsequent actual experience, the Company may  
24 have realized that the current study is biased.

25



1 **Q. WHAT ADJUSTMENT ARE YOU RECOMMENDING TO THE**  
2 **COMPANY'S RESERVE ACCRUAL AND RESERVE REFLECTED IN**  
3 **THE FILING?**

4 A. Based on the reserve current balance and what I expect the balance to be as of  
5 December 31, 2011, I believe justification exists to reduce the Company's to  
6 annual accrual to \$600,000. This recommendation reduces O&M expense \$6.2  
7 million (\$5,962,113 on a jurisdictional basis) as shown on Exhibit HWS-1,  
8 Schedule C-1, Page 1 of 2.

9

10 **Q. WOULD YOU EXPLAIN WHY YOUR ADJUSTMENT IS**  
11 **APPROPRIATE?**

12 A. The Company has established a reserve that is sufficient to cover major storms in  
13 the future. As discussed earlier, the calculated average cost of storms charged  
14 against the reserve excluding the unusual 2004 and 2005 storm costs is  
15 approximately \$575,000. This recommendation that the annual accrual be  
16 reduced to \$600,000 is based on the assumption that the annual charges will  
17 continue at the historical rate of \$575,000 and after five years the reserve will be  
18 comparable to what it is expected to be as of December 31, 2011. That level of a  
19 reserve is sufficient to cover storm costs that are likely to occur based on recent  
20 history, and is a level that was previously determined by the Commission to be  
21 within a specific target range, as noted above. As shown on Exhibit HWS-1,  
22 Schedule C-1, Page 2 of 2, charging the most recent eight year average of  
23 \$575,000 (excluding surcharge recovered storms) against the reserve while  
24 accruing \$600,000 per year results in a December 31, 2016 reserve balance of  
25 \$31,239,925.

1 **Q. ARE YOU AWARE OF ANY RECENT COMMISSION CASES WHICH**  
2 **DENIED OR REDUCED STORM DAMAGE RESERVE ACCRUAL?**

3 A. Yes. In two recent rate cases, the Commission eliminated the storm damage  
4 accrual requested by the utilities. In Florida Power & Light's (FPL's) last rate  
5 case, the Commission considered a request for annual storm damage accrual of  
6 \$150,000,000 per year.<sup>4</sup> In denying FPL's request, the Commission noted the  
7 following:

8 We note that there are provisions for the protection of utilities to  
9 allow them to seek recovery of prudently incurred storm costs that  
10 go beyond the reserve level. Because these mechanisms are in  
11 place to recover storm costs, we choose at this time, not to place  
12 this additional burden on the ratepayers.  
13

14 Similarly, in Progress Energy Florida's (PEF's) last rate case, the Commission  
15 considered a request for annual storm damage accrual and denied it.<sup>5</sup> In both  
16 cases, the Commission noted that utilities have the option to petition the  
17 Commission for a storm surcharge to recover damages not covered by the storm  
18 damage reserve. While I am not asserting that the storm damage accrual for Gulf  
19 should be eliminated at this time, for the reasons state above, it should be reduced  
20 until such time that the storm damage reserve is fully funded.  
21  
22

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<sup>4</sup> See Order No. PSC-10-0153-FOF-EI, issued March 17, 2010, in Docket No. 080677-EI In re: Petition for increase in rates by Florida Power & Light Company, and Docket No. 090130-EI, In re: 2009 depreciation and dismantlement study by Florida Power & Light Company; at pages 160-163.

<sup>5</sup> See Order No. PSC-10-0131-FOF-EI, issued March 15, 2010, in Docket No. 090079-EI, In re: Petition for increase in rates by Progress Energy Florida, Inc., Docket No. 090144-EI, In re: Petition for limited proceeding to include Bartow repowering project in base rates, by Progress Energy Florida, Inc., Docket No. 090145, In re: Petition for expedited approval of the deferral of pension expenses, authorization to charge storm hardening expenses to the storm damage reserve, and variance from or waiver of Rule 25-6.0143(1)(c), (d), and (f), F.A.C., by Progress Energy Florida, Inc.; at pages 68-71.

1           **V. TREE TRIMMING EXPENSE**

2  
3       **Q.    DID YOU REVIEW THE COMPANY'S REQUEST FOR DISTRIBUTION**  
4       **TREE TRIMMING EXPENSE?**

5       A.    Yes.  Company witness Scott Moore states in a simple paragraph at page 20 that  
6       the Company is requesting \$4.918 million for distribution tree trimming in the  
7       projected test year 2012.  The testimony suggests that this is the level of spending  
8       that is required to maintain the Vegetation Management Plan previously approved  
9       by the Commission in Docket No. 060198-EI<sup>6</sup>.  Order No. PSC-06-0947-PAA-EI  
10       identified two levels of incremental spending for vegetation management for  
11       Gulf.  One alternative was the implementation of a three year cycle that would  
12       increase the \$3.2 million approved in Docket No. 010949-EI by \$4.2 million to  
13       \$7.4 million annually.  Gulf's proposed plan was to address danger trees with an  
14       increased spending of \$1.5 million, increasing the annual spending to \$4.7  
15       million.  The filing in this current rate case reflects no detailed support or  
16       justification for including in rates either the level of tree trimming expense at the  
17       historic test year level of \$4,910,578 or the projected test year level of  
18       \$4,918,154.

19  
20       **Q.    ARE YOU RECOMMENDING AN ADJUSTMENT TO THE COMPANY'S**  
21       **DISTRIBUTION TREE TRIMMING EXPENSE REQUEST?**

22       A.    Yes, a reduction of \$386,834 is recommended on a jurisdictional basis, as shown  
23       on Exhibit HWS-1 Schedule C-2, for Distribution Vegetation Management.  The

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<sup>6</sup> See Order PSC-06-0947-PAA-EI, issued November 13, 2006, in Docket 060198-WI, In Re: Requirement for investor-owned electric utilities to file ongoing storm preparedness plans and implementation cost estimates.

1 adjustment factors in the Company's actual performance since the decision in  
2 Docket No. 060198-EI.

3  
4 **Q. WHY ARE YOU RECOMMENDING AN ADJUSTMENT TO THE**  
5 **COMPANY'S VEGETATION MANAGEMENT REQUEST?**

6 A. The Company was allowed \$3.2 million for vegetation management tree trimming  
7 in its last rate case, Docket No. 010949-EI<sup>7</sup>. In the Storm Hardening Docket No.  
8 060198-EI, the Company's proposal to increase spending by \$1.5 million was  
9 approved. The total approved spending beginning in 2007 would equate to \$4.7  
10 million. Since the approval of the incremental vegetation management costs, the  
11 Company has averaged \$4,293,262 as shown on Exhibit HWS-1, Schedule C-2.  
12 Limiting maintenance in previous years, for whatever reason, is no justification  
13 for passing the catch up costs on to ratepayers. Therefore, the Company's sudden  
14 increase in spending when a rate case is being filed should not be the basis for the  
15 amount to be recovered from ratepayers prospectively. An adjustment is required  
16 to reflect the level of spending the Company is actually performing in its attempt  
17 to comply with the Storm Hardening Requirements approved by the Commission  
18 in Docket No. 060198-EI.

19  
20  
21 **VI. POLE LINE INSPECTION/REPLACEMENT EXPENSE**  
22

23 **Q. DID YOU REVIEW THE COMPANY'S REQUEST FOR POLE LINE**  
24 **INSPECTION/REPLACEMENT EXPENSE?**

---

<sup>7</sup> See Order PSC-02-0787-FOF-EI, issued June 10, 2002, in Docket 010949-EI, In Re: Request for rate increase by Gulf Power Company

1 A. The Company does not really address the increase of \$409,963 in the projected  
2 test year 2012 expense. The filing reflects no real detail in support of increasing  
3 the level of expense above the historic test year level of \$690,037. The 59.4%  
4 increase is not justified.

5

6 **Q. ARE YOU RECOMMENDING AN ADJUSTMENT TO THE COMPANY'S**  
7 **POLE LINE INSPECTION/REPLACEMENT EXPENSE REQUEST?**

8 A. Yes, a reduction of \$371,701 is recommended on a jurisdictional basis, as shown  
9 on Exhibit HWS-1, Schedule C-3, for Pole Line Inspections. The adjustment is  
10 based on the historical actual spending in 2010.

11

12 **Q. WHY ARE YOU RECOMMENDING AN ADJUSTMENT TO THE**  
13 **COMPANY'S POLE LINE INSPECTION/REPLACEMENT EXPENSE**  
14 **REQUEST?**

15 A. The Company was allowed \$734,000 for its pole line inspection program in its  
16 last rate case Docket No. 010949-EI. As shown on Exhibit HWS-1, Schedule C-3  
17 the Company has failed to expend the allowed amount included in rates in six of  
18 the last seven years. It is not appropriate to collect funds from ratepayers for  
19 maintenance that is not being performed. The Company must show that it will  
20 spend as much or more than what has been allowed in rates to justify an increase  
21 to be included in future rates.

22

23 **Q. HOW DID YOU DETERMINE YOUR RECOMMENDED ADJUSTMENT?**

24 A. Even though the Company has averaged only \$530,147 of spending in the past  
25 seven years, I am recommending that the 2010 spending of \$690,037 be escalated

1 to 2012 dollars, resulting in an expense of \$728,299. Therefore the Company  
2 request for \$1,100,000 as identified in Gulf's response to Citizens Interrogatory  
3 No. 212 should be reduced by \$371,701 as shown on Exhibit HWS-1, Schedule  
4 C-3.

5  
6 **VII. PRODUCTION O&M EXPENSE**

7  
8 **Q. WHAT DID YOU DETERMINE FROM YOUR REVIEW OF THE**  
9 **COMPANY'S PRODUCTION O&M EXPENSE REQUEST?**

10 **A.** The Company is requesting in the projected test year \$110,887,515, net of fuel,  
11 purchased power, ECRC, Plant Scherer and wholesale expenses. The December  
12 31, 2010 test year reflected \$92,889,451. That equates to an increase of 19.4%  
13 over two years. The request appears excessive when compared to the historical  
14 trend from 2001 to 2010.

15 Beginning on page 26, Company witness Raymond Grove provides an  
16 explanation for the increase in production O&M expense over the next five years.  
17 Mr. Grove attempts to justify the increase by first explaining the "robust  
18 budgeting process" and then by identifying five primary factors as to why  
19 production O&M is increasing. The first reason is that the age of Gulf's  
20 generation assets is increasing, requiring a greater level of maintenance. Next,  
21 Mr. Grove asserts that costs are increasing at a rate that is greater than inflation.  
22 Third, Mr. Grove states that Smith Unit 3 was relatively new during the years  
23 2006-2010. The fourth primary factor identified was the addition of a new  
24 generating unit, Perdido, in October 2010. Finally, Mr. Grove states that Gulf  
25 worked hard in 2009 and 2010 time frame to lower O&M expenses so as not to

1           burden customers with a rate request during what he has classified as “the worst  
2           economic downturn since the Great Depression.”

3  
4   **Q.   DO YOU HAVE CONCERNS WITH THE EXPLANATIONS PROVIDED**  
5   **BY THE COMPANY?**

6   A.   Yes. The first explanation that the units are getting older may have some merit,  
7           but not to the extent that it justifies the increase in costs that is being requested. It  
8           is true that the units are aging, but at the same time the Company is continuing to  
9           provide normal maintenance and, as evidenced by Mr. Grove’s Schedule 5, there  
10          are significant capital expenditures being made that maintain each of the  
11          respective units’ lives and/or even extend the units’ lives.

12                 The second explanation is that costs are increasing at a greater rate than  
13                 inflation. This may be true with some costs, but not all. The inflation rate reflects  
14                 changes of various costs, some that are higher than the average and some that are  
15                 lower than the average. Companies will typically claim that the increase in  
16                 expense is because costs are increasing at a rate greater than inflation. In the  
17                 thirty plus years that I have been analyzing costs in rate proceedings, I have not  
18                 seen a study submitted by a company that shows how the specific cost areas in  
19                 question have exceeded the rate of inflation.

20                 The third factor identified was Smith Unit 3 being relatively new in the  
21                 2006-2010 time period. Smith Unit 3 began operation in 2002. In fact the  
22                 Commission in Docket No. 010949-EI specifically recognized the addition of  
23                 Smith Unit 3 in justifying the increase in maintenance expense over the Company  
24                 ~~over the~~ benchmark in their approval of the Company’s Production O&M request.  
25                 In my opinion, that factor, along with the historical spending that has occurred at

1 Smith as shown on Exhibit HWS-1, Schedule C-4, Page 2 of 2 suggests the Smith  
2 Unit costs are not a driving factor as Mr. Grove contends.

3 The Perdido unit going into service in October of 2010 was identified as  
4 the fourth primary factor. The unit is very small; therefore, the maintenance cost  
5 should not be a primary factor contributing to the 19.4% increase in expense.

6 Finally, the fifth factor was that costs were controlled in 2009 and 2010.  
7 That suggests that maintenance may have been deferred. The problem with that  
8 explanation is 2010 had the greatest level of Production O&M expense in the last  
9 10 years. The Company has also stated in the response to Citizens' Interrogatory  
10 No. 224 that it has not deferred production maintenance. This appears to  
11 contradict the statement that Gulf kept O&M levels low to avoid a base rate  
12 increase, which statement in turn conflicts with the high expenditure seen in 2010.  
13 Gulf's rationales tend to cancel each other out. The only reasonable conclusion is  
14 that the amount sought for the test year is unsupported, and must be adjusted to a  
15 more reasonable level.

16  
17 **Q. WHY DO YOU BELIEVE THE COMPANY'S PRODUCTION O&M**  
18 **EXPENSE REQUEST IS EXCESSIVE?**

19 A. The Company's \$110,887,515 request has increased significantly when compared  
20 to the ten year average as shown on Exhibit HWS-1, Schedule C-4, Page 2 of 2.  
21 First the Baseline and Special Projects for each of the respective units is projected  
22 to increase from 14% to as high as 38% from 2010 to 2012. This must be  
23 considered to be significant, when historically unit costs have generally gone up  
24 and down between 2001 and 2010 with minimal fluctuations with one major  
25 exception. That exception is the significant spike in the 2010 corporate expense.



1 The historical outage costs by unit follow a similar pattern over the past ten years  
2 again, with one major exception. That exception, coincidentally, was the year  
3 2002, during the time frame of the Company's last rate request.  
4

5 **Q. ARE THERE ANY OTHER CONCERNS THAT YOU HAVE IDENTIFIED**  
6 **WITH THE COMPANY'S INCREASE IN PRODUCTION O&M**  
7 **EXPENSE?**

8 A. Yes. As shown on Exhibit HWS-1, Schedule C-4, page 1 of 2 the Baseline and  
9 Special Projects have been fairly level, averaging \$74,553,191 over the years  
10 2006-2010. The out years were a low of \$70,025,586 in 2009, and a high of  
11 \$82,018,531 in 2010. It would appear some shifting of maintenance occurred to  
12 offset in part an opposite shift of outage costs in the same years. Most  
13 significantly, the 2012 projected test year Baseline and Special Projects and  
14 Outage costs are 17.7% higher and 111.7% higher, respectively, than the five year  
15 average for 2006 through 2010.  
16

17 **Q. ARE YOU RECOMMENDING AN ADJUSTMENT TO THE**  
18 **PRODUCTION O&M EXPENSE REQUEST?**

19 A. Yes. As shown on Exhibit HWS-1 Schedule C-4, Page 1 of 2 the Company's  
20 Production O&M Expense should be reduced \$11,291,492 on a jurisdictional  
21 basis.  
22

23 **Q. COULD YOU EXPLAIN HOW YOU DETERMINED THE ADJUSTMENT**  
24 **TO THE PRODUCTION O&M EXPENSE REQUEST?**

1 A First, I started with the five year average for the Production O&M expense. I  
2 escalated that by 5.5% for 2011, and then again by 5.5% for 2012. The 5.5%  
3 increase is the actual increase from 2010. I regard this as more than reasonable  
4 since, as shown on Exhibit HWS-1, Schedule C-4, Page 1 of 2, costs over the past  
5 five years have increased as well as decreased resulting in a simple average  
6 annual increase 1.18%. After escalating the average costs, I added the Company  
7 increase in labor, using the Company's 2012 labor of \$30,828,000 and subtracting  
8 the five year average labor of \$26,765,000. The average was calculated from  
9 Company Exhibit No.\_\_(RWG-1), Schedule 7. I believe my use of the average is  
10 reasonable, since I utilized the average for a starting point in my calculation. The  
11 result is a recommended Production O&M expense of \$99,212,245. The  
12 \$99,212,245 is \$11,675,270 less than the Company's requested \$110,887,515.  
13 On a jurisdictional basis Production O&M expense is reduced \$11,291,492.

14

15 **Q. WHY SHOULD THE COMMISSION ACCEPT YOUR**  
16 **RECOMMENDATION TO REDUCE PRODUCTION O&M EXPENSE?**

17 A. The Company's request for \$110,887,715 is 19.4% higher than 2010. As I stated  
18 earlier, 2010 production O&M expense was unusually high in comparison to the  
19 years 2001 through 2009. Production O&M expense has fluctuated from year to  
20 year since 2001. I do not expect the significant spike projected by Gulf to  
21 continue, despite what the Company has reflected in its filing. The Company can  
22 control the costs incurred; to allow the spike in expense based on no more than  
23 the Company's claim, without evidence that the spending will continue, is akin to  
24 giving the Company a blank check. After ten years of essentially level spending,  
25 ratepayers need to be protected from a sudden spike that resulted from the

1 Company's "robust budget." Without some smoothing through the use of  
2 averaging, rates could be set artificially high and in future years shareholders  
3 would benefit from the over-collection.  
4

5 **Q. IS YOUR USE OF THE COMPANY LABOR DOLLARS AN INDICATION**  
6 **THAT YOU ARE ACCEPTING THE COMPANY LABOR REQUEST?**

7 A. No. I have included the labor dollars solely to establish that my calculation is  
8 comparable to the Company's requested Production O&M Expense. Ms. Ramas  
9 is addressing the Company's labor request. Had I failed to recognize the  
10 increased labor figure used by Gulf, Ms. Ramas and I would have duplicated the  
11 labor adjustment.  
12

13 **VIII. DIRECTORS AND OFFICERS LIABILITY INSURANCE**

14  
15 **Q. ARE YOU RECOMMENDING AN ADJUSTMENT FOR THE COST OF**  
16 **DIRECTORS AND OFFICERS LIABILITY INSURANCE?**

17 A. Yes. According to the response to Citizens Production of Document Request No.  
18 19, the Company has included at least \$118,767 of expense in account 925 for  
19 Directors and Officers liability insurance (DOL). This expense protects  
20 shareholders from the decisions they made when they hired the Company's Board  
21 of Directors and the Board of Directors in turn hired the officers of the Company.  
22 The question is whether this cost that the Company has elected to incur as a  
23 business expense is for the benefit of shareholders and/or ratepayers.  
24

1 **Q. HAVE YOU ADDRESSED THIS ISSUE IN PREVIOUS RATE CASE IN**  
2 **FLORIDA?**

3 A. Yes, I have addressed it in three recent proceedings. In the Peoples Gas  
4 Company case and in the Tampa Electric case<sup>8</sup>, the Commission allowed the cost  
5 to be included in customer's rates. In those cases, the Commission viewed the  
6 cost as a legitimate business expense. More recently in the Progress Energy  
7 Florida case (Docket No. 090079-EI<sup>9</sup>), the Commission observed that other  
8 jurisdictions make an adjustment for DOL insurance and that it has disallowed  
9 DOL insurance in wastewater cases in the past. The Commission allowed PEF to  
10 place one half the cost of DOL insurance in test year expenses.

11

12 **Q. ARE THE MOST RECENT PEF DECISION AND THE PAST**  
13 **WASTEWATER DECISIONS WHY YOU ARE RECOMMENDING AN**  
14 **ADJUSTMENT FOR THE COST ASSOCIATED WITH DIRECTORS**  
15 **AND OFFICERS LIABILITY INSURANCE IN THIS CASE?**

16 A. Only in part. The Florida Commission has in the past disallowed DOL insurance  
17 costs. But even if the costs had not been disallowed, I would still recommend a  
18 disallowance, because the cost associated with DOL insurance benefits  
19 shareholders first and foremost. In ratemaking, the cost should follow the  
20 benefit. The benefit of this insurance clearly inures primarily to shareholders.  
21 Ratepayers are not the parties who initiate litigation that is associated with

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<sup>8</sup> See Order No. PSC-09-0411-FOF-GU, page 38, issued June 9, 2009, in Docket No. O80318-GU, In re: Petition for rate increase by Peoples Gas System; and Order No. PSC-09-0283-FOF-EI, issued April 30, 2009 in Docket No. 080317-EI, In re: Petition for rate increase by Tampa Electric Company.

<sup>9</sup> See Order No. PSC-10-0131-FOF-EI, issued March 5, 2010, in Docket No. 090079-EI, In re: Petition for increase in rates by Progress Energy Florida, Inc.

1 decisions made by the officers and directors of the Company. Generally, the one  
2 initiating any suit is a shareholder. However, I am aware that, in the PEF docket,  
3 the Commission determined that the customer and the shareholder both benefit,  
4 and decided that there should be a sharing of the cost associated with that benefit.  
5

6 **Q. WHAT ADJUSTMENT ARE YOU PROPOSING TO THE COST OF**  
7 **DIRECTORS AND OFFICERS LIABILITY INSURANCE INCLUDED IN**  
8 **THE COMPANY'S REQUEST?**

9 A. I am recommending a disallowance of \$59,384 or 50% of the identified 2012  
10 projected test year expense (\$58,196 jurisdictional). This is consistent with the  
11 decision in Docket No. 090079-EI.  
12

13 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

14 A. Yes.  
15

1 BY MR. SAYLER:

2 Q. And it is my understanding that you have also  
3 prepared two exhibits to your direct testimony, and  
4 those are exhibits identified in the Comprehensive  
5 Exhibit List as Number 37 and 38; is that correct?

6 A. Yes.

7 Q. All right. And have you prepared a summary of  
8 your testimony?

9 A. I have.

10 Q. All right. Would you please summarize your  
11 testimony for our Commission?

12 A. Yes.

13 Q. For this Commission.

14 A. Good morning, Commissioners and interested  
15 parties. My prefiled testimony addresses the company's  
16 request for including \$26.7 million in plant held for  
17 future use to build a nuclear plant on approximately  
18 4,000 acres in North Escambia County; the company's  
19 unsupported request to increase storm reserve accrual  
20 from 3 1/2 million to 6.8 million; the company's  
21 excessive request for tree trimming, pole inspections,  
22 production O&M maintenance; and finally, the  
23 appropriateness of sharing the cost of directors' and  
24 officers' liability insurance.

25 The company's request to include the North

1 Escambia County property in plant held for future use is  
2 not appropriate. The company has not filed and/or  
3 received a determination of need on that property. The  
4 company is asking for inclusion in rate base only to  
5 provide them an option in the distant future for  
6 determining a nuclear need. There are at least two  
7 other plant sites available to the company that are  
8 already in plant held for future use to provide future  
9 generation if need arises.

10 The proposed cost to be included in rate base  
11 is partially estimated. As indicated on page 6 of my  
12 testimony, the company has indicated in response to  
13 Citizen Interrogatory Number 24 that it has no definite  
14 plans to build any type of generation in the near  
15 future. And I emphasize "near future," because as  
16 indicated on page 11 of my testimony, the Commission  
17 determined that for plant to be included in plant held  
18 for future use, the cost must be prudent, and it appears  
19 it will be used for utility purposes in the reasonably  
20 near future. The company has not shown a definite need,  
21 and it has admitted that it has no need in the near  
22 future, so the cost should not be allowed in plant held  
23 for future use, nor should it be allowed to continue to  
24 earn a return on that.

25 The company's request to increase the storm

1 reserve accrual is not supported based upon actual  
2 historic storm costs that would typically be charged  
3 against the reserve. Instead, the request is  
4 purportedly based on thousands of hypothetical storms  
5 that far exceed the number of actual storms that have  
6 occurred over the past years and focus on damages that  
7 occurred in 2004 and 2005 that are not typical storms  
8 that are charged to the reserve.

9 On the other hand, the company-requested  
10 increase that is purportedly supported by this  
11 questionable study totally ignores any significant level  
12 of storm hardening that has occurred since 2007.

13 The study also ignores the Commission's  
14 decision in Progress and FP&L that notes that there is a  
15 mechanism for recovery of extreme storms. The current  
16 storm reserve level is sufficient, and it is not  
17 designed to address the impact of severe storms like the  
18 2004-2005 storms.

19 The production O&M and the tree trimming and  
20 the pole inspection costs are costs that are  
21 historically lower than what the company is requesting  
22 in this filing. That historical reflection has to be  
23 considered when determining what is reasonable and  
24 necessary. I recognize in my testimony that the company  
25 has a budget process, but the fact remains that the



1 history reflects what the company does for spending.

2 With respect to the directors' and officers'  
3 liability insurance, the company's shareholders pick the  
4 directors. The directors essentially pick the officers.  
5 So what that insurance does is, it provides protection  
6 for the shareholders from their decision to pick the  
7 officers and directors. Therefore, that cost, at a  
8 minimum, should be shared between shareholders and  
9 ratepayers to reflect the benefit that accrues to both  
10 parties.

11 Thank you.

12 MR. SAYLER: Mr. Chairman, we tender our  
13 witness for cross.

14 CHAIRMAN GRAHAM: Intervenors?

15 MR. WRIGHT: Mr. Chairman, I do have a few  
16 questions for Mr. Schultz regarding the storm  
17 accrual. We have taken a position that no accrual  
18 should be necessary for Gulf Power. He has  
19 advocated \$600,000 a year, and I want to probe that  
20 with him, please.

21 CHAIRMAN GRAHAM: Okay.

22 MR. WRIGHT: Thank you.

23 CROSS-EXAMINATION

24 BY MAJOR THOMPSON:

25 Q. Good morning, Mr. Schultz.

1           A.    Good morning.

2           Q.    Welcome back to Tallahassee.

3           A.    Thank you.

4           Q.    In your testimony, you advocate an annual  
5 storm accrual for Gulf Power on the order of \$600,000 a  
6 year; is that correct?

7           A.    That's correct.

8           Q.    Do you recognize that Gulf's storm reserve  
9 bears interest?

10          A.    Yes.

11          Q.    Do you agree that if the -- I understand it's  
12 at the short-term commercial paper rate. Is that your  
13 understanding, or do you know better than I?

14          A.    That's what I've heard. I haven't looked into  
15 it past the fact that I know it's --

16          Q.    Well, let me ask you this. If the short-term  
17 rate that was accruing to the fund was 2 percent a year,  
18 that would accrue something in the range of 600 to  
19 \$620,000 a year to the fund absent charges against it;  
20 correct?

21          A.    I'll accept your math on that, yes.

22          Q.    Even if there were charges against the fund of  
23 600,000 a year -- let me back up. Your 600,000 a year  
24 is based on unextraordinary charges to the fund, i.e.,  
25 absent extraordinary storms of around \$575,000 a year;

1 right?

2 A. That is correct.

3 Q. Okay. Here's my question for you: If the  
4 company were to experience ordinary charges of about  
5 \$600,000 a year, even if the fund were not earning  
6 interest, how long would the fund last before it would  
7 be depleted?

8 A. If the fund was incurring \$600,000 a year --

9 Q. I'm asking you to assume for this particular  
10 question that it's not even accruing interest.

11 A. That it's not accruing interest.

12 Q. Yes. At \$600,000 a year, how long would  
13 \$31 million last?

14 A. Is it accruing additional amounts to the  
15 reserve?

16 Q. Without any accrual, so the answer to your  
17 question is no.

18 A. Okay. In that case, you would be looking at  
19 about 50 years.

20 Q. Okay. And if it were accruing interest at  
21 \$600,000 a year, wouldn't it be true that the reserve  
22 would remain at its 30, \$31 million level in perpetuity  
23 until there were some extraordinary charges?

24 A. Yes.

25 Q. Okay. Do you know whether Florida Power &

1 Light company currently has an accrual to its storm  
2 reserve built into its base rates?

3 A. No, they do not.

4 Q. And do you know how that came to pass?

5 A. Yes.

6 Q. Can you tell us?

7 A. Well, that decision came out shortly after the  
8 Progress Energy hearing, where they also were not  
9 allowed any further accrual. In the Progress Energy  
10 hearing, I said the company shouldn't get an accrual  
11 anymore.

12 Q. In light of the numeric facts that we  
13 discussed earlier, interest that might come close to the  
14 annual charges, the fact that even without interest it  
15 might last 50 years, and in light of the prior PSC's  
16 decisions to discontinue accruals for FPL and Progress  
17 Energy Florida, would you agree that a continuing  
18 accrual to Gulf's storm reserve is not necessary, at  
19 least not at this time, for Gulf to provide safe and  
20 reliable service at the lowest possible cost?

21 MR. GUYTON: Objection. This is clearly  
22 friendly cross, and he's to the point now where  
23 he's adopting the witness as his own.

24 MR. WRIGHT: It's not friendly cross. He's  
25 advocating \$600,000. I want him to go to zero,

1 Mr. Chairman.

2 MR. GUYTON: A position of convenience that  
3 was changed a day or two ago to facilitate this  
4 facade.

5 MR. WRIGHT: Excuse me, Mr. Chairman. If  
6 Mr. Guyton is accusing me of changing my position,  
7 he is flat wrong. That's our position in our  
8 prehearing statement.

9 MR. GUYTON: I'll withdraw the objection.

10 CHAIRMAN GRAHAM: Okay.

11 MR. WRIGHT: May he answer the question?

12 CHAIRMAN GRAHAM: Yes.

13 BY MR. WRIGHT:

14 Q. Does Gulf need a continuing storm reserve  
15 accrual to continue providing safe and reliable service  
16 at the lowest possible cost?

17 A. Say that again. I'm missing something, I  
18 think.

19 Q. Does Gulf Power Company need a continuing  
20 storm reserve accrual greater than zero to provide safe  
21 and reliable service to its customers at the lowest  
22 possible cost?

23 A. Actually, I would have to say I believe they  
24 did. That's why I recommended the \$600,000.

25 MR. WRIGHT: Okay. Thank you.

1 CHAIRMAN GRAHAM: Staff?

2 MS. KLANCKE: Staff has no questions of this  
3 witness.

4 CHAIRMAN GRAHAM: Gulf, do you want to address  
5 the storm accrual?

6 MR. GUYTON: I have no questions.

7 CHAIRMAN GRAHAM: Commissioner Brown?

8 COMMISSIONER BROWN: Thank you. Now I get to  
9 ask my question. Hello. How are you?

10 THE WITNESS: Fine, thank you.

11 COMMISSIONER BROWN: Good. As a follow-up,  
12 with regard to the storm reserve accrual, this area  
13 is obviously prone to severe weather, and I'm still  
14 trying to understand why you're recommending a  
15 reduction to \$600,000. I read your direct  
16 testimony, and I still just want a better  
17 understanding.

18 THE WITNESS: Well, the purpose of the  
19 reserve -- and this has been basically made clear,  
20 I think, in the Progress Energy decision and the  
21 Florida Power & Light decision. The reserve is to  
22 address certain storms, not every storm. And so  
23 the severity of the storm has to be taken into  
24 consideration when you're trying to determine the  
25 level that should be in the reserve.

1           The storms that happened in 2004 and 2005 were  
2           significant. I know the company witness Erickson  
3           has indicated that she didn't consider them severe,  
4           but to me, \$134 million, that's a significant  
5           storm. In fact, that's a level of storm that, in  
6           my opinion, and I believe in the Commission's  
7           opinion in the past, is not a storm that should be  
8           considered as a reserve requirement storm in  
9           determining that reserve requirement. And  
10          therefore, you have to exclude those storms when  
11          you're determining what kind of storms are  
12          generally charged in a typical nature to the  
13          reserve.

14                 And that's what I did in my analysis. I  
15          excluded the 2004 and 2005 storms that were being  
16          recovered through a surcharge mechanism. And the  
17          average storm reserve in that -- for the storms  
18          over that ten-year period then was 575,000.  
19          Assuming that that 575,000 is going to continue on  
20          a going-forward basis, that's where I came up with  
21          the 600,000.

22                 Had there than some other factor, like the  
23          reserve level would have been higher than it is  
24          currently, I might have gone more with what  
25          counsel's last questions went to and said they

1 should be a zero. But since the reserve is kind of  
2 a target point right now of what the Commission had  
3 in the past, I think it's something that you have  
4 to still consider.

5 There will be storms. And I think the  
6 indication that there was a charge in 2011 of  
7 approximately \$600,000, that that reflects what the  
8 annual impact could be total reserve.

9 So I didn't know ahead of time that that was  
10 going to be \$600,000. You know, that just kind of  
11 came up coincidentally at that level.

12 COMMISSIONER BROWN: Okay. I see how you got  
13 there. Thank you.

14 And just switching gears, last question. I  
15 can certainly appreciate your analysis and  
16 recommendation of the DOL insurance and your  
17 recommendation. I have a question for you  
18 regarding -- are you familiar with other  
19 jurisdictions and how they handle DOL insurance?

20 THE WITNESS: Yes, I am.

21 COMMISSIONER BROWN: Are you familiar with how  
22 they allocate or disallow portions of the DOL  
23 insurance? If so, could you please provide the  
24 Commission with that information?

25 THE WITNESS: In Connecticut, DOL insurance is



1 split on a case-by-case basis. They'll also --  
2 they'll look at the level of coverage that's  
3 included and maybe take the top layer off just for  
4 the fact of the coverage. And in fact, that was  
5 also done in New York in a Consolidated Edison case  
6 that I was in. They took off some off the top, and  
7 then they split it 50-50 between shareholders and  
8 ratepayers.

9 So generally speaking, after people saw what  
10 happens in things like the Enron occurrence, the  
11 light bulb came on that says, yeah, shareholders  
12 are the ones who come after the corporation for  
13 recovery. And therefore, you know, they're the  
14 ones that should bear some of the cost of that, and  
15 that's where I've seen the sharing take place.

16 COMMISSIONER BROWN: Thank you.

17 CHAIRMAN GRAHAM: Mr. Schultz, I have a  
18 question too. I'm not sure if I heard you  
19 correctly or not in your summary. You said that  
20 Gulf has got two other sites available for future  
21 power generation?

22 THE WITNESS: Yes.

23 CHAIRMAN GRAHAM: Are these sites of the size  
24 that can handle a 1200-megawatt nuclear plant?

25 THE WITNESS: No, they're not designed for a

1 nuclear megawatt -- a 1200 nuclear megawatt plant.  
2 The Caryville site was, I think, approved for two  
3 500-megawatt coal units, and then there's the Mossy  
4 Head site can be used, which is smaller yet.

5 But these sites have also been in plant held  
6 for future use for years. I mean, Caryville has  
7 been in plant held for future use for 29 years, and  
8 the company hasn't found a need for that. So to  
9 add another one, that's almost like adding insult  
10 to injury to ratepayers, like let's just keep  
11 piling it on. There has to be a limit as to how  
12 much plant held for future use can be accumulated,  
13 I believe.

14 CHAIRMAN GRAHAM: But your testimony is that  
15 neither one of those two sites will handle a  
16 nuclear plant?

17 THE WITNESS: That's my understanding from the  
18 company and my understanding from reading what I  
19 have read about them. They're not sufficient to  
20 handle a nuclear plan.

21 CHAIRMAN GRAHAM: Okay. Commissioner Edgar.

22 COMMISSIONER EDGAR: Thank you, Mr. Chairman.

23 I would like to follow up briefly on your  
24 responses to Mr. Wright and Commissioner Brown  
25 regarding the storm reserve recommendation annual

1           accrual that you've made.

2                   Did I understand correctly that in your  
3           analysis, you are discounting the storm events in  
4           '04 and '05 when basing your accrual amount?

5                   THE WITNESS: Well, I took them out, yes. I  
6           took the costs associated with them out of the  
7           costs incurred by the company over the last 10  
8           years.

9                   COMMISSIONER EDGAR: Why?

10                   THE WITNESS: Because again, those were  
11           extreme storms. The reserve isn't intended to  
12           cover the cost of extreme storms, and that was made  
13           evident by the Commission in Progress Energy's  
14           decision and the Florida Power & Light decision.

15                   COMMISSIONER EDGAR: Are you aware that the  
16           vote on that issue was not unanimous?

17                   THE WITNESS: I think that was the case, yes.

18                   COMMISSIONER EDGAR: Do you know what the vote  
19           was?

20                   THE WITNESS: I don't have that clear a  
21           recollection of whether it was or not. I thought  
22           there may have been a dissenting vote on that, but  
23           I --

24                   COMMISSIONER EDGAR: Would you accept that it  
25           was 3 to 2?

1 THE WITNESS: I would accept that.

2 COMMISSIONER EDGAR: The order that the  
3 Commission issued in '93 authorizing a  
4 self-insurance mechanism for storm damage, my  
5 understanding of that order -- and I did not  
6 participate in that. That predates even me. But  
7 my understanding of that order is that it  
8 established a framework for the recovery of storm  
9 damage costs that involved three facets, one of  
10 which is an annual storm accrual, one of which is a  
11 storm reserve adequate to accommodate most, but not  
12 all storm events, and the provision for utilities  
13 to seek recovery of costs that go beyond the storm  
14 reserve.

15 In an answer that you gave just a -- I think  
16 to Commissioner Brown, although it may have been to  
17 Mr. Wright, I thought I understood you to say that  
18 the decision in the Progress and FPL rate cases was  
19 based upon there being the ability for a company to  
20 seek recovery through a surcharge, which to me  
21 seemed to put, of those three components, a great  
22 deal of weight on one, but not the three. Did I  
23 understand that correctly?

24 THE WITNESS: You understood that correctly.  
25 I factored in what was decided in previous cases,

1 because I looked at those decisions.

2 COMMISSIONER EDGAR: All previous cases or  
3 just two?

4 THE WITNESS: I looked at the old decisions.  
5 Specifically, I looked at what was addressed in  
6 some of the storm dockets too. So I've looked at  
7 those.

8 And the thing is that, again, as you  
9 indicated, in the one, it wasn't to address all  
10 storms. That was, I think, your second point that  
11 you --

12 COMMISSIONER EDGAR: Yes.

13 THE WITNESS: -- identified. And you have to  
14 take into consideration when you're looking at the  
15 storms that are going to be hitting that reserve,  
16 you have to look at how often a storm of the  
17 magnitude of Ivan is going to hit that reserve. I  
18 mean, that was significant.

19 In my recommendation in those two cases --  
20 well, in Progress, not the two cases, but in  
21 Progress, I looked at the fact that the storms that  
22 were extraordinary in nature, extreme, I took those  
23 out of my analysis also because of the fact that  
24 those were -- and I'm going to put it in my  
25 terms -- you know, rare occurrences, maybe the one

1 in a hundred year storm. In fact, in Progress,  
2 they didn't even indicate that that's what it was.  
3 In fact -- yes, the company even referred to it, I  
4 believe, that it was that rare.

5 And I believe that in the case of Gulf Power,  
6 you know, the fact that a storm of that  
7 magnitude -- and my addressing the magnitude is not  
8 only to the veracity of the storm, but it's also to  
9 the -- it's to the cost. It's what damage it did.  
10 That's what you've got to really look at. I mean,  
11 the storm may not seem as severe. It could be a  
12 Category 2 storm, but it may impact a significant  
13 amount of dollar damage, and the dollar damage is  
14 what we've got to be looking at. You can't focus  
15 only on the fact that it was a Category 3 storm or  
16 a Category 2 storm. You have to look at how much  
17 damage was there.

18 And again, the Ivan storm was significant  
19 dollar-wise. And to factor that and assume that's  
20 going to occur at a level that you're going to have  
21 to factor that into your annual damage accrual, I  
22 think that's taking it to an extreme. That's above  
23 and beyond who the reserve was intended for.

24 COMMISSIONER EDGAR: My understanding of your  
25 answers, which I appreciate, is that you put a

1 great deal of weight on the decisions in the recent  
2 FPL and Progress rate cases. Did you also consider  
3 the decisions in the TECO rate case of a few years  
4 ago?

5 THE WITNESS: Yes, I did. In fact, I  
6 participated in those cases also. And again, I  
7 don't want you to walk away with the thought that  
8 those were my primary focuses. I mean, my  
9 testimony also addresses the fact that the storm  
10 hardening wasn't addressed, which I think is  
11 significant.

12 I also took issue with the positioning of the  
13 storms, the fact that the company can't identify  
14 like the ZIP codes, because the specific area where  
15 those storms impact have an impact on the level of  
16 damage that's going to occur. And to assume that  
17 that historic -- just ignoring history of where  
18 that damage has occurred in the past and assuming  
19 that all these synthetic storms could just hit each  
20 and every area assumes things that haven't  
21 occurred, and there's no indication that they would  
22 occur.

23 I hope you're following what I'm saying.

24 COMMISSIONER EDGAR: I think so. And I think  
25 I have just one additional question on this point.

1 I think I heard you say just a moment ago that Ivan  
2 was perhaps a one in a hundred year storm event.  
3 Are you aware of prior to Ivan when the last storm  
4 event that was considered significant hit the Gulf  
5 service area?

6 THE WITNESS: Not the last significant storm,  
7 you know, what I consider significant.

8 COMMISSIONER EDGAR: Would you consider Opal  
9 in '95 significant?

10 THE WITNESS: I don't -- I understand that the  
11 damage was large at that time. I don't know the  
12 amount of damage that it did off the top of my  
13 head. '95?

14 COMMISSIONER EDGAR: I believe it was  
15 September of '95.

16 THE WITNESS: Okay. Yeah, because after Opal  
17 or after 1995, I mean, there wasn't a lot of damage  
18 between the years of 1996 and 2000, I know that,  
19 from storms.

20 COMMISSIONER EDGAR: Which is significantly  
21 less than a hundred years.

22 THE WITNESS: Yes, but I don't know the extent  
23 of the damage from Opal, that's all.

24 COMMISSIONER EDGAR: All right. Thank you.

25 CHAIRMAN GRAHAM: Commissioner Brisé.



1 COMMISSIONER BRISÉ: Thank you, Mr. Chairman.

2 I'm going to address the same issue from a

3 different perspective.

4 Ms. Erickson on yesterday talked about the  
5 difference between pursuing the accrual track  
6 versus the surcharge track. And I'm going to ask  
7 you the question whether you think one impacts the  
8 other, and if so, what are your thoughts on that?

9 THE WITNESS: I think that -- let me first  
10 address what was said by Ms. Erickson on that. You  
11 know, she talked about her informal study. And to  
12 me, first of all, ratemaking is not something that  
13 everybody understands. In fact, I think it's a  
14 small portion of people who understand what  
15 ratemaking is all about. And if you go and ask  
16 somebody a question that says, "Would you rather  
17 have your rates increase 27 cents a year or 10  
18 times that should a storm hit," the first thing  
19 anybody is going to say in response to a question  
20 like that is, "I only want it to go up 27 cents a  
21 year, not 10 times."

22 The whole story has to be there. You can't  
23 just come up with a statement like that and give  
24 the impression that, "Wow, you're going to be hit  
25 with this \$2.70 a month charge who knows for how

1 long." So it's going to be -- it was kind of a  
2 misleading question, I would think, in my opinion,  
3 especially to an uninformed public of what the  
4 impact could be.

5 And so I think that there is a difference, and  
6 significantly, because you're asking somebody to  
7 pay for the storm today, under the company's idea,  
8 that may not be a customer tomorrow. So why should  
9 they pay for that storm ahead of time?

10 Do you as a Commissioner, or as an individual,  
11 let's say, go out and buy a car, and start paying  
12 for it before you get it? No. You don't pay for  
13 it ahead of time. So why should you have to have  
14 customers pay for something in advance? That's not  
15 a fair treatment of the ratepayer.

16 And to suggest that, "Well, if you don't pay  
17 for it in advance, you're going to really get hit,  
18 you know, down the line," that's almost like a  
19 scare tactic to me, I mean, to be frank. And it's  
20 like -- they did go over this yesterday. When  
21 plant goes into service, you begin to pay for it,  
22 and you start to pay for it as long as you're a  
23 customer. And if a storm occurs when you're the  
24 customer, then that customer should be paying for  
25 that storm. If it needs be, then a surcharge is

1 implemented.

2 And that's the key thing too, if it needs be.  
3 I mean, if you look at the history of storms, even  
4 the level of storms, I mean, they took into the  
5 study thousands of storms, synthetic storms. But  
6 in response to a data request, it indicated in the  
7 last hundred years there's been 67 storms that made  
8 landfall in Florida, just 67. So by factoring in  
9 thousands as they did in the synthetic, you're  
10 really putting more emphasis on the worst case  
11 scenario.

12 And you've also got to, again, like I said,  
13 you know, you take a look at what's in the area  
14 hit. I mean, when it comes to Florida, it's my  
15 understanding from what I've seen that the area hit  
16 is Miami most predominantly, not Pensacola.

17 So, yeah, the storm -- the 27-cent storm --

18 COMMISSIONER BRISÉ: Thank you.

19 THE WITNESS: -- charge may sound nice, but I  
20 don't agree with her analogy on that.

21 COMMISSIONER BRISÉ: Thank you. All right.  
22 That was a pretty long answer for a very succinct  
23 answer that you gave at the very end there.

24 Moving on to another issue with respect to the  
25 Escambia site, I think Commissioner Graham started

1 to go down a path in terms of if that particular  
2 site was suitable for a nuclear plant. And so  
3 based upon what you said in the testimony and what  
4 you just said recently with respect to the question  
5 about the hurricane stuff, you would want to see  
6 those costs recovered through, say, a nuclear cost  
7 recovery clause at some point rather than for it to  
8 be recovered in base rates now?

9 THE WITNESS: Well, I guess the first thing I  
10 would like to see is, are they going to build a  
11 nuclear plant. I mean, it's an option, is what the  
12 company is saying. They don't know that they're  
13 going to build a nuclear plant.

14 They're part of Southern Company. You've got  
15 to remember that Southern Company has already got  
16 two major construction projects in place. They've  
17 got Vogtle going, and they're building a big coal  
18 gasification plant in Mississippi. So there's a  
19 lot of generation going up there, and if they were  
20 serious about building a nuclear plant, you would  
21 think there would be more on the board, in fact, as  
22 to the possibility of it. I saw an article on the  
23 guy in charge of Southern Company's building of  
24 Plant Vogtle, and there wasn't a mention of any  
25 other nuclear sites.

1                   So that's the question: Is there a really  
2 possibility of that occurring? And in my opinion,  
3 I don't think there is, because we're looking at a  
4 company that doesn't have an exclusive need for it,  
5 so therefore, they shouldn't have the plant held  
6 for future use exclusively charged to their  
7 ratepayers.

8                   COMMISSIONER BRISÉ: Okay. Thank you very  
9 much.

10                  CHAIRMAN GRAHAM: Commissioner Balbis.

11                  COMMISSIONER BALBIS: Thank you. I have a  
12 quick question. If you can turn to Schedule C-1 of  
13 HWS-1.

14                  THE WITNESS: Yes, sir.

15                  COMMISSIONER BALBIS: In Gulf's request,  
16 they're requesting that, I believe, 3.3 million  
17 annually be recovered for storm accrual; correct?

18                  THE WITNESS: No. They're requesting  
19 6.8 million.

20                  COMMISSIONER BALBIS: I'm sorry.

21                  Okay. So 6.8 million. And looking at this  
22 Schedule C-1, in the beginning balance column, I  
23 assume that the \$49 million followed by the  
24 \$43 million, the reduction -- I'm sorry. Let me go  
25 to the storm charges. Line number 4, that

1           \$93 million, I assume those are the severe storms  
2           in '04.

3           THE WITNESS: Yes, sir.

4           COMMISSIONER BALBIS: And then going back to  
5           the column on beginning balance, you see the  
6           balance go to a negative 49 million, negative  
7           43 million, and then it gets to a positive balance  
8           once insurance or surcharge is collected; is that  
9           correct?

10          THE WITNESS: Yes, sir.

11          COMMISSIONER BALBIS: So the accrual, the  
12          annual accrual of 6.5 million, 3.5 million, as it  
13          goes down the line on different line items, that  
14          really doesn't have as significant of an impact as  
15          the insurance or surcharge collected in adding to  
16          the balance of the fund; correct?

17          THE WITNESS: Say that again.

18          COMMISSIONER BALBIS: Okay. If you go down  
19          the accrual column, I assume that the accrual is  
20          the amount that Gulf is recovering from ratepayers  
21          on an annual basis. Is that correct?

22          THE WITNESS: For the most part, not totally.

23          COMMISSIONER BALBIS: Let me go round this a  
24          different way. I apologize for not being clear.

25          The severe storms resulted in a \$93.4 million

1 charge to that account; correct?

2 THE WITNESS: That's correct.

3 COMMISSIONER BALBIS: So the \$6.8 million  
4 annual accrual, if a severe storm occurs of the  
5 same magnitude as '04, that recovery amount cannot  
6 come close to paying for the costs associated with  
7 that storm; correct?

8 THE WITNESS: That's correct. But you've got  
9 to take in mind what has happened in the past.

10 COMMISSIONER BALBIS: No, that's -- just work  
11 with me here on this.

12 THE WITNESS: Okay.

13 COMMISSIONER BALBIS: So if this Commission  
14 approves a \$6.8 million annual accrual, and looking  
15 at the balance currently, would Gulf Power still  
16 have -- and a storm hits of the same magnitude as  
17 '04 and '05, would Gulf Power still have to  
18 implement a surcharge to recover the costs, for  
19 recovery?

20 THE WITNESS: I think they would, and they  
21 probably would want to, because they say you've  
22 done it in the past, and therefore, let's do this  
23 so we can maintain some kind of level of positive  
24 value in our storm accrual to address the normal  
25 storms.

1 COMMISSIONER BALBIS: Okay. Thank you.

2 CHAIRMAN GRAHAM: Redirect?

3 MR. SAYLER: No, Mr. Chairman.

4 CHAIRMAN GRAHAM: Exhibits.

5 MR. SAYLER: Mr. Chairman, we have Exhibits  
6 37, 38, and 206 to move into the record for Witness  
7 Schultz.

8 CHAIRMAN GRAHAM: Exhibits 37 and 38 on page  
9 10.

10 MR. SAYLER: Yes, sir.

11 CHAIRMAN GRAHAM: And 206.

12 MR. SAYLER: Yes, sir.

13 CHAIRMAN GRAHAM: Enter those into the record.  
14 (Exhibit Numbers 37, 38, and 206 were admitted  
15 into the record.)

16 MR. SAYLER: And may our witness be excused?

17 CHAIRMAN GRAHAM: If there's no objections, we  
18 can excuse the witness.

19 MR. SAYLER: All right. Thank you. Thank  
20 you, Mr. Schultz.

21 THE WITNESS: Thank you.

22 CHAIRMAN GRAHAM: Next witness.

23 MR. SAYLER: Mr. Chairman, the Office of  
24 Public Counsel would like to call Ms. Kimberly  
25 Dismukes to the stand. And she also has an errata



1 sheet for her testimony, and I would like to  
2 identify an exhibit number for it.

3 CHAIRMAN GRAHAM: I have that. We can call  
4 that 207.

5 (Exhibit Number 207 was marked for  
6 identification.)

7 MR. SAYLER: Ms. Dismukes, have you been  
8 previously sworn in this proceeding?

9 THE WITNESS: No, I have not.

10 MR. SAYLER: All right.

11 (Witness sworn.)

12 Thereupon,

13 KIMBERLY H. DISMUKES  
14 was called as a witness and, having been first duly  
15 sworn, was examined and testified as follows:

16 DIRECT EXAMINATION

17 BY MR. SAYLER:

18 Q. Please state your name and business address  
19 for the record.

20 A. Kimberly Dismukes, 5800 -- I've forgotten my  
21 address -- Perkins Place Drive, Suite 5F, Baton Rouge,  
22 Louisiana, 70808.

23 Q. And by whom are you employed, and in what  
24 capacity?

25 A. Acadian Consulting Group. My title is senior

1 research consultant.

2 Q. And on behalf of the Office of Public Counsel,  
3 did you prepare and submit direct testimony in this  
4 proceeding on October 14, 2011?

5 A. Yes, I did.

6 Q. And do you currently have that testimony with  
7 you?

8 A. Yes, I do.

9 Q. And do you have any corrections or revisions  
10 to make to your prefiled testimony?

11 A. Other than the errata?

12 Q. Other than the errata.

13 A. No, I do not.

14 MR. SAYLER: All right. Mr. Chairman, will  
15 this exhibit suffice for the errata, or would you  
16 would you like her to go through it?

17 CHAIRMAN GRAHAM: No.

18 MR. SAYLER: Okay.

19 BY MR. SAYLER:

20 Q. As modified and corrected, do you adopt the  
21 prefiled testimony as your testimony today?

22 A. Yes, I do.

23 Q. And according to the Staff's Comprehensive  
24 Exhibit List, you have 13 exhibits. Those are  
25 identified on page 11 as Exhibits 39 through 51; is that

1 correct?

2 A. Yes.

3 Q. And have you prepared a summary of your  
4 testimony?

5 A. Yes, I have.

6 MR. SAYLER: My apologies. Mr. Chairman, I  
7 would ask that her prefiled testimony be inserted  
8 into the record as though read.

9 CHAIRMAN GRAHAM: We will insert Ms. Dismukes'  
10 testimony into the record as though read.

11 MR. SAYLER: Thank you.

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**REDACTED VERSION**

1

**DIRECT TESTIMONY**

2

**OF**

3

**Kimberly H. Dismukes**

4

On Behalf of the Office of Public Counsel

5

Before the

6

Florida Public Service Commission

7

Docket No. 110138-EI

8

9 **Q. WHAT IS YOUR NAME AND ADDRESS?**

10 A. Kimberly H. Dismukes, 5800 One Perkins Place Drive, Suite 5F, Baton Rouge, Louisiana  
11 70808.

12

13 **Q. BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?**

14 A. I am a partner in the firm of Acadian Consulting Group, LLC which specializes in the  
15 field of public utility regulation. I have been retained by the Office of the Public Counsel  
16 (“OPC”) on behalf of the Citizens of the State of Florida to analyze the application of  
17 Gulf Power Company (“Gulf Power” or “Company”) to increase its rates and charges.

18

19

**REDACTED VERSION**

1 **Q. DO YOU HAVE A SCHEDULE THAT DESCRIBES YOUR QUALIFICATIONS**  
2 **IN REGULATION?**

3 A. Yes. Schedule KHD-1, was prepared for this purpose.  
4

5 **Q. DO YOU HAVE SCHEDULES IN SUPPORT OF YOUR TESTIMONY?**

6 A. Yes. Schedules KHD-2 through KHD-13 were prepared for this purpose.  
7

8 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

9 A. My testimony is organized into five sections. In the first section, I give a brief  
10 background of the instant proceeding. In the second section, I discuss the importance of  
11 monitoring affiliate transactions. In the third section, I address the relationships between  
12 Gulf Power and its affiliates. In the fourth section, I address the allocation of costs from  
13 Southern Company Services (“SCS”), the service company that provides service to the  
14 Company as well as its sister companies. In section five, I address other affiliate  
15 transaction adjustments to test year expenses and investments.

16 **I. Background**

17 **Q. WOULD YOU PLEASE PROVIDE SOME BACKGROUND TO THIS**  
18 **PROCEEDING?**

19 A. Yes. Gulf Power is a wholly-owned subsidiary of The Southern Company (“Southern  
20 Company”). The Company is headquartered in Pensacola, Florida, and has provided  
21 electric utility service since 1926. Currently, Gulf Power serves more than 431,000 retail

**REDACTED VERSION**

1 customers across eight counties in Northwest Florida through the generation,  
2 transmission, distribution, and sale of electric energy and energy-related services.

3  
4 **Q. HOW LONG HAS IT BEEN SINCE GULF POWER'S LAST RATE CASE?**

5 A. It has been slightly more than nine years since the Company's last rate case. The base  
6 rate portions of the Company's current rates and charges were established by Order No.  
7 PSC-02-0787-FOF-EI, issued June 10, 2002, in Docket No. 010949-EI, based on a  
8 projected test year and 13-month average rate base ending May 31, 2003.

9  
10 **II. Affiliate Transactions: Importance of Review**

11 **Q. WHY IS IT IMPORTANT TO CLOSELY EXAMINE AFFILIATE**  
12 **TRANSACTIONS?**

13 A. In a situation involving the provision of services between affiliated companies, the  
14 associated transactions and costs do not represent arms-length dealings. Cost allocation  
15 techniques and methods of charging affiliates should be reviewed and analyzed  
16 frequently to ensure that the company's regulated operations are not subsidizing the  
17 nonregulated operations. Because of the relationship between Gulf Power and the  
18 affiliates which contribute to expenses included on the books of the Company, the arms-  
19 length bargaining of a normal competitive environment is not present in their  
20 transactions. Although each of the affiliated companies is supposedly separate,  
21 relationships between Gulf Power and its affiliates are still close – they all belong to one  
22 corporate family, Southern Company. In the absence of regulation, there is no assurance  
23 that affiliate transactions and allocations will not translate into unnecessarily high charges

**REDACTED VERSION**

1 for Gulf Power's customers. Even when the methodologies for cost allocation and pricing  
2 have been explicitly stated, close scrutiny of affiliate relationships is still warranted.  
3 Regardless of whether or not Southern Company, the holding company, explicitly  
4 establishes a methodology for the allocation and distribution of affiliate costs, there is an  
5 incentive to allocate or shift costs to regulated companies so that the nonregulated  
6 companies can reap the benefits with higher profits for shareholders.

7  
8 **Q. DOES THE COMMISSION HAVE ANY GUIDELINES WHICH CONTROL THE**  
9 **PRICING ARRANGEMENTS BETWEEN UTILITIES AND THEIR**  
10 **AFFILIATES?**

11 A. Yes. The Commission's Rules set forth the criteria to be followed by electric utilities  
12 when transacting with affiliates. Rule 25-6.1351, Florida Administrative Code (F.A.C.),  
13 details the Commission's policy. It excludes affiliate transactions related to the purchase  
14 of fuel and related transportation services that are subject to the Commission's review in  
15 cost recovery proceedings. Subsection (3) of the rule provides specific details about the  
16 pricing between affiliates and the regulated utility.<sup>1</sup> It states that purchases from the  
17 utility by the affiliate must be at the higher of fully allocated cost or market price.<sup>2</sup> The  
18 rule further states that purchases from the affiliate must be at the lower of fully allocated  
19 cost or market price.<sup>3</sup> Finally, the rule states that assets transferred from the affiliate to  
20 the utility must be transferred at the lower of cost or market, and assets transferred from  
21 the utility to the affiliate must be transferred at the higher of cost or market.<sup>4</sup>

---

<sup>1</sup> Rule 25-6.1351 (3), F.A.C.

<sup>2</sup> Rule 25-6.1351 (3)(b), F.A.C.

<sup>3</sup> Rule 25-6.1351 (3)(c), F.A.C.

<sup>4</sup> Rule 25-6.1351 (3)(d), F.A.C.

**REDACTED VERSION**

1 **Q. HAS THE COMMISSION ADDRESSED AFFILIATE TRANSACTIONS IN ANY**  
2 **ORDERS?**

3 A. Yes. The Commission has expressed its opinion on affiliate transactions and the  
4 precedent that should be followed when examining affiliate transactions. Although a  
5 transaction between related parties is not *per se* unreasonable, by their very nature  
6 transactions between related parties require closer scrutiny. It is always the utility's  
7 burden to prove that its costs are reasonable.<sup>5</sup> This burden is even greater when the  
8 transaction is between related parties. In GTE Florida, Inc. v. Deason, the Court  
9 established that the standard to use in evaluating affiliate transactions is whether those  
10 transactions exceed the going market rate or are otherwise inherently unfair.<sup>6</sup>

11

12 **Q. DOES NARUC HAVE GUIDELINES RELATING TO COST ALLOCATIONS**  
13 **AND AFFILIATE TRANSACTIONS?**

14 A. Yes. The National Association of Regulatory Utility Commissioners ("NARUC")  
15 adopted the "NARUC Guidelines for Cost Allocations and Affiliate Transactions"  
16 ("Guidelines") addressing electric and gas operations on July 12, 1999. In a letter to the  
17 Securities Exchange Commission, NARUC explained that these Guidelines were  
18 intended to provide guidance to jurisdictional regulatory authorities, regulated utilities,  
19 and their affiliates in the development of procedures and recording of transactions for  
20 services and products between a regulated entity and affiliates.<sup>7</sup>

---

<sup>5</sup> Florida Power Corp. v. Cresse, 413 So. 2d 1187, 1191 (Fla. 1982).

<sup>6</sup> GTE Florida, Inc. v. Deason, 642 So. 2d 545, 548 (Fla. 1994).

<sup>7</sup> National Association of Regulatory Utility Commissioners ("NARUC") comment letter regarding the Securities and Exchange Commission's ("SEC") notice of proposed rulemaking on Foreign Utility Companies published at 66 Fed. Reg. 9,247 (February 7, 2001). April 9, 2001, p. 3. (hereinafter "NARUC SEC letter") available at <http://www.sec.gov/rules/proposed/s70501/ramsay1.htm>.



**REDACTED VERSION**

1 The prevailing premise of NARUC's Guidelines is that allocation methods should not  
2 result in subsidization of nonregulated services or products by regulated entities. When it  
3 comes to allocating costs, the Guidelines state that all direct and allocated costs between  
4 regulated and nonregulated services and products should be traceable on the books of the  
5 applicable regulated utility to the applicable Uniform System of Accounts. NARUC's  
6 Guidelines also state the primary cost driver of common costs, or a relevant proxy in  
7 absence thereof, should be identified and used to allocate costs. In addition indirect costs  
8 of each business unit, including the allocated costs of shared services, should be spread to  
9 the services or products to which they relate using relevant cost allocators.<sup>8</sup>

10  
11 NARUC's Guidelines further discuss pricing affiliate transactions, which are based on  
12 two assumptions:

13 First, affiliate transactions raise the concern of self-dealing where market  
14 forces do not necessarily drive prices. Second, utilities have a natural  
15 business incentive to shift costs from non-regulated competitive operations  
16 to regulated monopoly operations since recovery is more certain with  
17 captive ratepayers. . . .

18 The Guidelines state that products and services provided by the regulated utility to  
19 nonregulated affiliates should be priced at the higher of cost or market while products and  
20 services provided by the nonregulated affiliate to the regulated utility should be priced at  
21 the lower of cost or market. For all affiliate transactions, an audit trail should exist, and  
22 state regulators should have complete access to all affiliate records necessary to ensure

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<sup>8</sup>NARUC SEC letter at 3, 5.

<sup>9</sup>NARUC SEC letter at 6.

**REDACTED VERSION**

1 that cost allocations and affiliate transactions are conducted in accordance with the  
2 Guidelines.<sup>10</sup>

3  
4 **Q. WOULD YOU PLEASE COMMENT ON THE COMPANY'S STATEMENT IN**  
5 **SCS' "COST ACCOUNTABILITY AND COST CONTROL MANUAL" THAT**  
6 **THE FACTORS USED TO ALLOCATE COSTS BETWEEN GULF POWER AND**  
7 **ITS AFFILIATES WERE APPROVED BY THE SECURITIES AND EXCHANGE**  
8 **COMMISSION ("SEC")?**

9 A. Yes. Under the Public Utility Holding Company Act of 1935, the SEC had authority to  
10 approve the allocation of costs between affiliated utility companies. However, this act  
11 was repealed with the enactment of the Energy Policy Act of 2005, and the authority now  
12 rests with the Federal Energy Regulatory Commission ("FERC") and state regulators.<sup>11</sup>

13  
14 **III. Gulf Power Affiliates**

15 **Q. WOULD YOU PLEASE DESCRIBE GULF POWER'S AFFILIATES?**

16 A. Southern Company, the parent company of Gulf Power, is a publicly traded holding  
17 company with both regulated and nonregulated subsidiaries operating in four states.  
18 Schedule KHD-2 of my exhibit contains an organizational chart of Southern Company  
19 and its affiliates. Its regulated utilities serve over four million customers and include  
20 Alabama Power, Georgia Power, Gulf Power, and Mississippi Power. In addition to its  
21 regulated subsidiaries, Southern Company owns several nonregulated subsidiaries:

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<sup>10</sup> NARUC SEC letter at 6.

<sup>11</sup> Energy Policy Act of 2005, Sec. 1263 and 1267.

**REDACTED VERSION**

- 1           • Southern Power Company (“Southern Power”) – constructs, acquires, owns, and  
2           manages generation assets and sells electricity in the wholesale market;
- 3           • SouthernLINC Wireless – provides digital wireless communications for use by  
4           Southern Company and its subsidiary companies and markets these services to the  
5           public and also provides wholesale fiber optic solutions to telecommunication  
6           providers in the Southeast;
- 7           • Southern Nuclear – operates and provides services to Alabama Power’s and  
8           Georgia Power’s nuclear plants and is currently developing new nuclear  
9           generation at Plant Vogtle.
- 10          • Southern Electric Generating Company (“SEGCO”) – is equally owned by  
11          Alabama Power and Georgia Power. SEGCO owns electric generating units with  
12          a total rated capacity of 1,020 megawatts, as well as associated transmission  
13          facilities.<sup>12</sup>
- 14          • Southern Company Services (“SCS”) – the system service company that provides,  
15          at cost, specialized services to Southern Company and its subsidiaries;
- 16          • Southern Holdings – an intermediate holding subsidiary for Southern Company’s  
17          investments in leveraged leases; and
- 18          • Southern Renewable Energy – formed in January 2010 to construct, acquire, own,  
19          and manage renewable generation assets.<sup>13</sup>
- 20
- 21

---

<sup>12</sup> Southern Company 2010 10-K, p II-162.

<sup>13</sup> Southern Company 2010 10-K, p. I-1.

**REDACTED VERSION**

1 **Q. HAVE THE SOUTHERN COMPANY NONREGULATED ACTIVITIES**  
2 **INCREASED IN RECENT YEARS?**

3 A. Yes. Southern Renewable Energy was formed in January 2010 to construct, acquire, own,  
4 and manage renewable generation assets.<sup>14</sup> In its 2010 Form 10-K Southern Company  
5 stated, "These efforts to invest in and develop new business opportunities offer potential  
6 returns exceeding those of rate-regulated operations. However, these activities also  
7 involve a higher degree of risk."<sup>15</sup>

8

9 **Q. ARE THERE TRANSACTIONS BETWEEN GULF POWER AND ITS**  
10 **NONREGULATED AFFILIATES?**

11 A. Yes. Gulf Power contracts with SCS for a variety of managerial and professional  
12 services. In addition, it receives mail payment processing services from Alabama Power  
13 and shares plant costs with Georgia Power Company for Plant Scherer Unit 3, which is  
14 currently excluded from Gulf Power's rate base, and Mississippi Power Company for  
15 Plant Daniel. Southern Nuclear provides siting services while SouthernLINC Wireless  
16 provides wireless and telecommunications services, and Southern Management provides  
17 financial services. Gulf Power provides various services to affiliates as well, including  
18 office space, information technology, and power sales.

19

20 As shown on Schedule KHD-3, during the projected test year Gulf Power's transactions  
21 with its affiliates totaled approximately \$155 million. During the test year, nearly \$81  
22 million in charges from its affiliates are included in the test year Operations and

---

<sup>14</sup> Southern Company 2010 10-K, p. I-1.

<sup>15</sup> Southern Company 2010 10-K, p. I-3.

**REDACTED VERSION**

1 Maintenance (“O&M”) and Administrative and General (“A&G”) expenses. Thus, of the  
2 total O&M and A&G expenses included in the test year of approximately \$283 million,  
3 28.6 percent of the costs are charged from its affiliates. In addition, of the total  
4 administrative and general expenses included in the test year of \$77 million, 73.2 percent,  
5 or \$56 million are charged from SCS.

6  
7 **Q. HOW HAVE CHARGES FROM SCS CHANGED OVER THE LAST SIX**  
8 **YEARS?**

9 A. Schedule KHD-4 provides the charges from SCS to the Southern Company subsidiaries  
10 for the years 2005 to 2010. As shown on this schedule, the charges from SCS to the  
11 various Southern Company subsidiaries have increased by \$513 million or 57% since  
12 2005. In contrast, charges from SCS to Gulf Power have increased by \$44 million or  
13 82% over the same time period. It is interesting to note that SCS’ total billings have been  
14 increasing. This is partly driven by the fact that the billings to the utility operating  
15 companies have been increasing while the amounts billed to the nonregulated companies  
16 have been decreasing.

17  
18 **IV. Southern Company Services Allocation of Costs**

19 **Q. HOW ARE COSTS FROM SCS ASSIGNED TO GULF POWER AND ITS**  
20 **AFFILIATES?**

21 A. Costs are attributed to affiliates of SCS under three methods: direct assignment, fixed  
22 percentage distributions, and direct accumulative distributions.<sup>16</sup> Expenses that are assigned  
23 on fixed percentage distributions relate to costs that are incurred for the benefit of two or

---

<sup>16</sup> Response to OPC Document Request 34 and Supplemental Response to OPC Document Request 34.

**REDACTED VERSION**

1 more affiliates. Examples include most administrative and general expenses, which is  
2 comprised of certain legal expenses, general accounting functions, human resource  
3 functions, and executive management, and miscellaneous expenses.  
4

5 **Q. WHAT IS THE DIRECT ASSIGNMENT METHOD?**

6 A. Costs which are directly assigned from SCS are those that are incurred solely for the benefit  
7 of one company. An example of a direct charge could be legal fees incurred in connection  
8 with a legal matter specific to Gulf Power.  
9

10 **Q. WOULD YOU EXPLAIN THE DIRECT ACCUMULATIVE DISTRIBUTION**  
11 **METHODOLOGY?**

12 A. Yes. Direct accumulative distributions are based on work order specific allocation  
13 assumptions that are used when there is no established fixed percentage allocator that could  
14 be used. The Company gave the example of using the number of software seats as a method  
15 to allocate costs of acquiring and deploying a particular software program. During the test  
16 year \$5.2 million of expenses were allocated to the Company using this methodology.<sup>17</sup>  
17

18 **Q. WOULD YOU DESCRIBE THE FIXED PERCENTAGE DISTRIBUTION**  
19 **METHODOLOGY?**

20 A. Expenses that are assigned on fixed percentage distributions relate to costs that are incurred  
21 for the benefit of two or more affiliates. Examples include many administrative and general  
22 expenses, comprising certain legal expenses, general accounting functions, human resource  
23 functions, executive management, and miscellaneous expenses. During the test year, \$40

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<sup>17</sup> Response to OPC Document Request 34 and Supplemental Response to OPC Document Request 34.

**REDACTED VERSION**

1 million was charged to the Company using this allocation methodology.<sup>18</sup>

2  
3 **Q. WHAT ALLOCATION FACTORS DID GULF POWER USE DURING THE TEST**  
4 **YEAR?**

5 A. The allocation factors used during the test year are shown on Schedule KHD-5. As shown,  
6 these factors are made up of various statistics, including kilowatt hours (kWh), customers,  
7 employees, plant capacity (kW), gas burned (MMBTU), insurance premiums, billed labor,  
8 and a financial factor which consists of an equal weighting of fixed assets, operating  
9 expenses, and operating revenue.

10  
11 **Q. ARE THERE PROBLEMS WITH THE ALLOCATION FACTORS?**

12 A. Yes. There are several problems with the allocation factors. The problems range from  
13 failing to incorporate the significant benefits the nonregulated companies receive from their  
14 association with the regulated operating companies to using stale data for the allocation  
15 factors.

16  
17 **Q. WOULD YOU DISCUSS THE BENEFITS THE NONRELATED AFFILIATES**  
18 **RECEIVE FROM THEIR ASSOCIATION WITH REGULATED ELECTRIC**  
19 **COMPANIES?**

20 A. Yes. However, first the background on the formation of Southern Company and Southern  
21 Power is instructive in this analysis, and it demonstrates that the regulated utilities were the  
22 foundation for Southern Power and the formation of the service company.

23  

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<sup>18</sup> Response to OPC Document Request 34 and Supplemental Response to OPC Document Request 34.

**REDACTED VERSION**

1 **Q. CAN YOU PLEASE BRIEFLY DESCRIBE THE HISTORY OF SOUTHERN**  
2 **COMPANY?**

3 A. Yes. The genesis of Southern Company began in the mid-1920s when Alabama Power,  
4 Georgia Power, Gulf Power, and Mississippi Power became an interconnected system under  
5 a holding company known as Southeastern Power & Light. The presumption was that this  
6 integration would enable the companies to provide more reliable service, give them a source  
7 of capital and construction funds, and allow them to share expert personnel. In 1930,  
8 Southeastern Power & Light merged into an eleven-company system called the  
9 Commonwealth & Southern Corporation. This corporation was dissolved in the late 1940s  
10 because not all of the companies met the requirement of having integrated operations or  
11 interconnected transmission lines.

12

13 **Q. WHEN DID SOUTHERN COMPANY OFFICIALLY FORM?**

14 A. Southern Company was formed on November 9, 1945, as a holding company for Alabama  
15 Power, Georgia Power, Gulf Power, and Mississippi Power. In 1949, Southern Company  
16 purchased all of the service company's common stock, and the personnel of the holding  
17 company became employees of Southern Company Services. Southern Company then  
18 began trading on the New York Stock Exchange as SO.

19

20 **Q. WHEN DID SOUTHERN COMPANY BEGIN DIVERSIFYING ITS**  
21 **OPERATIONS? .**

22 A. In 1981, it formed an unregulated subsidiary, Southern Energy, Inc., which began official  
23 operations in January 1982 and grew to serve ten countries on four continents. In January of



**REDACTED VERSION**

1 2001, Southern Company spun off Southern Energy into a separate corporation named  
2 Mirant Corporation.

3  
4 **Q. HOW ELSE HAS SOUTHERN COMPANY EXPANDED OVER THE YEARS?**

5 A. In 1985 Southern Company formed Southern Company Energy Solutions to research,  
6 develop, and invest in new energy-related business opportunities. In 1988, Savannah  
7 Electric joined the system as Southern Company's fifth operating company and was merged  
8 with Georgia Power on July 1, 2006. Another subsidiary, Southern Nuclear, was formed in  
9 1991 to serve the system's nuclear power plants. Southern Communications Services was  
10 formed in 1996 to provide digital wireless communications services to the system. They  
11 also marketed these services to the public as SouthernLINC. Southern Telecom was formed  
12 as a telecommunications subsidiary in 1997.

13  
14 **Q. HOW DID SOUTHERN COMPANY ADDRESS THE WHOLESALE MARKET?**

15 A. In January 2001, Southern Company formed Southern Power to own, manage, and finance  
16 wholesale generating assets in the Southeast for the purpose of targeting wholesale  
17 customers. On its website, Southern Company describes Southern Power as "our higher-  
18 growth competitive wholesale generation business ...."<sup>19</sup>

19  
20 **Q. WHAT ARE SOME OF THE BENEFITS THE NONREGULATED AFFILIATES  
21 RECEIVE FROM THEIR ASSOCIATION WITH THE REGULATED  
22 OPERATING COMPANIES?**

23 A. The nonregulated companies receive significant benefits of being related to the regulated

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<sup>19</sup> <http://investor.southerncompany.com/about.cfm>.

**REDACTED VERSION**

1 operating companies. These benefits include the operating companies' reputation,  
2 goodwill, and corporate image; being associated with large, financially strong, well-  
3 entrenched electric companies; and using the personnel of the service company. All of  
4 these benefits are attained because of the regulated operations companies which were the  
5 foundation of Southern Company before it ventured into the nonregulated arena.  
6 However, at no cost to themselves, the nonregulated affiliates obtain these significant  
7 intangible benefits for being associated with the regulated utility operations.

8  
9 **Q. ARE THERE OTHER BENEFITS THAT HAVE RECENTLY BEEN**  
10 **ADDRESSED BY FITCH RATINGS ("FITCH")?**

11 **A.** Yes. Southern Company's high credit ratings stem in major part to the stable cash flows  
12 and financial support provided by the four regulated utility operating companies:  
13 Alabama Power, Georgia Power, Gulf Power, and Mississippi Power. Fitch cited this as  
14 one reason why it affirmed its stable outlook for Southern Company and each of its  
15 operating subsidiaries.<sup>20</sup> Fitch specifically stated:

16 Fitch's ratings of Southern recognize the financial support provided by  
17 solid utility operating subsidiaries in the form of dividends for the  
18 payment of corporate expenses, debt-service, and for other business  
19 matters and relatively modest parent debt leverage. The four utilities  
20 derive predictable cash flows from regulated businesses and have limited  
21 commodity price risks due to the ability to recover fuel through separate  
22 cost trackers. There are also periodic cost adjustment mechanisms for  
23 other costs such as environmental spending and construction work in  
24 process financing costs that limit regulatory lag. Southern's ratings also  
25 reflect strong liquidity, financial flexibility, and ready access to the capital  
26 markets.<sup>21</sup>

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<sup>20</sup> Fitch Ratings, "Fitch Affirms Southern Co. and Subsidiaries' Ratings; Outlook Stable," August 30, 2011.

<sup>21</sup> Fitch Ratings, "Fitch Affirms Southern Co. and Subsidiaries' Ratings; Outlook Stable," August 30, 2011.

**REDACTED VERSION**

1 **Q. LET'S TURN TO THE NEXT PROBLEM WITH THE ALLOCATION FACTORS**  
2 **USED TO ALLOCATE COSTS TO THE COMPANY. ARE THE ALLOCATION**  
3 **FACTORS CURRENT RELATIVE TO THE PROJECTED TEST YEAR?**

4 A. No. Gulf Power used factors based upon 2009 data to allocate projected 2012 expenses.  
5 Thus, the data upon which the allocation factors are based are three years behind the dollar  
6 values being allocated.<sup>22</sup> If the relationships between the affiliates and the Company are  
7 expected to remain constant, then using older allocation factors might be acceptable.  
8 However, as demonstrated on Schedule KHD-6, the relationships are not always constant  
9 and can vary from year to year including the formation of new affiliates, which require a  
10 rebalancing of allocations among the affiliate relationships. Given the magnitude of the  
11 dollars that are being allocated, a minor change in the allocation factors can have a  
12 meaningful impact. For example, if the financial allocator, which is used to allocate a  
13 number of common administrative and general expenses, was modified for Gulf Power by  
14 one percent, this could translate into a reduction in test year expenses of \$1 million.

15

16 **Q. HAVE THERE BEEN ANY NEW AFFILIATES ADDED TO THE SOUTHERN**  
17 **COMPANY FAMILY THAT HAVE NOT RECEIVED ANY SCS ALLOCATIONS?**

18 A. Yes. Southern Renewable Energy was formed in 2010 to construct, acquire, own and  
19 manage renewable generation.<sup>23</sup> On March 12, 2010, a 30 MW solar photovoltaic plant was  
20 purchased by Southern Renewable Energy and on November 25, 2010, the plant began  
21 commercial operation. Not only are the SCS overhead costs not allocated to Southern  
22 Renewable Energy, but other costs allocated on the basis of MWs were not assigned to this

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<sup>22</sup> Company Corrected Supplemental Response to OPC Document Request 34.

<sup>23</sup> Southern Company, 2010 10-K, p. I-1.

**REDACTED VERSION**

1 company for the projected test year. Both of these factors overstate the costs included in the  
2 Company's projected 2012 test year expenses because the Company used 2009 data to  
3 allocate projected 2012 test year expenses.  
4

5 **Q. IS THERE A PROBLEM WITH THE FINANCIAL FACTOR USED TO**  
6 **ALLOCATE COSTS?**

7 A. Yes. As described above, the Company used a "financial" factor to allocate many  
8 administrative and general expenses. This factor consists of the average of net fixed assets,  
9 operating expenses, and operating revenue.<sup>24</sup> I have concerns that given the differences  
10 between the nonregulated companies and the regulated electric companies, including  
11 revenue in the allocation factor will overstate the allocations to regulated companies and  
12 understate the allocations to the nonregulated companies.  
13

14 **Q. CAN YOU GIVE AN EXAMPLE OF HOW USING THIS COULD BIAS THE**  
15 **ALLOCATION FACTORS?**

16 A. Yes. For example, the revenue per kWh of Gulf Power in 2010 was 9.88 cents, yet  
17 Southern Power's revenue per kWh was 4.72 cents. Southern Power sells its power at the  
18 wholesale level and therefore its revenue per kWh is lower than the other operating  
19 companies. Thus the lower relative level of revenue may not be indicative of the benefits or  
20 the level of service provided by SCS to Southern Power.  
21  
22

---

<sup>24</sup> Southern Company Services Cost Accountability and Control Manual, 2011 Edition, p. 11; Response to OPC Document Request 31.

**REDACTED VERSION**

1 **Q. WHAT ARE THE OTHER PROBLEMS WITH USING A REVENUE**  
2 **ALLOCATION FACTOR?**

3 A. Including a revenue allocation factor tends to under allocate costs to new nonregulated  
4 companies. Generally, new companies that are in the start-up phase of operations produce  
5 little revenue relative to the level of effort and management activities focused on these new  
6 ventures. Similarly, a revenue allocator will tend to over allocate costs to companies that are  
7 more capital intensive because they need to generate more revenue to produce the same  
8 return on investment as a less capital intensive company.

9  
10 Moreover, using a revenue allocator will automatically increase the allocation of SCS  
11 expenses to Gulf Power (and its sister operating companies) with the implementation of a  
12 rate increase, despite the fact that there has been no change in Gulf Power's operations or  
13 the effort required by SCS to provide services to Gulf Power. There is no logic to this  
14 result, and it clearly demonstrates that the use of a revenue component in the allocation  
15 factor is inappropriate.

16  
17 Allocation factors should be based upon cost-causative relationships to the extent possible  
18 and also recognize the benefits received from the service provided.<sup>25</sup>

19  
20 **Q. DO YOU HAVE A SCHEDULE THAT EXAMINES THE COMPONENTS OF THE**  
21 **FINANCIAL ALLOCATOR?**

22 A. Yes. Schedule KHD-7 sets forth the three different factors that make up the financial  
23 allocator. As depicted on this schedule, the factors for use in 2011, which were also used for

---

<sup>25</sup> Accounting for Public Utilities, LexisNexis, 19-11.

**REDACTED VERSION**

1 the 2012 projected test year, are based upon 2009 data. This schedule shows some  
2 interesting relationships. For example, while Southern Company has \$18.5 million in assets,  
3 it has only \$.207 million in operating expenses and \$0 in operating revenue.  
4

5 An examination of the relationship between the operating companies and the unregulated  
6 companies tends to show that their operating expense percentages are greater than the net  
7 plant percentages; yet when examining the same statistics for Southern Power, its operating  
8 expense percentages are much less than the net plant percentages.  
9

10 **Q. ARE THERE ANY PROBLEMS WITH THE EXPENSE FACTORS USED FOR**  
11 **THE FINANCIAL FACTOR?**

12 A. Yes. Although I do not have the components that make up the expenses included in the  
13 factor, it appears that the expense portion of the factor includes fuel and purchased power  
14 expenses. Fuel and purchased power should not be included in the expense portion of the  
15 factor because this factor is used to allocate primarily overhead costs and the administrative  
16 and general functions performed by SCS. Including these expenses over allocates costs to  
17 the regulated operating companies and under allocates the costs to the nonregulated  
18 companies.  
19

20 **Q. HOW DO YOU RECOMMEND THAT THE PROBLEMS IDENTIFIED ABOVE**  
21 **BE CORRECTED?**

22 A. I recommend that the Commission make several adjustments to the allocation factors. First,  
23 the Commission should update the data used in the allocation factors, where possible, with

**REDACTED VERSION**

1 2010 data. The factors that I was able to update with 2010 data include: Financial Factor,  
2 Sales for Resale, Customer, Employee, Employee (Generation), Employee (Transmission),  
3 Employee (East), Employee (West), and Capitalization.  
4

5 **Q. WHAT IS THE NEXT CHANGE TO THE ALLOCATION FACTORS THAT YOU**  
6 **RECOMMEND?**

7 A. I recommend that the Commission adjust the financial factor to remove revenue from the  
8 composite factor consisting of revenue, net fixed assets, and operating expenses. Including  
9 revenue in the allocation factor over allocates costs to the regulated companies and under  
10 allocates cost to the nonregulated companies. Revenues are not a good benchmark for  
11 allocating overhead-type costs. As explained earlier, a revenue allocator will automatically  
12 increase the allocation of SCS expenses to Gulf Power (and its sister operating companies)  
13 with the implementation of a rate increase, despite the fact that there has been no change in  
14 Gulf Power's operations or the effort required by SCS to provide services to Gulf Power.  
15

16 I also recommend that the Commission exclude fuel and purchased power from the expense  
17 portion of the factor. Including fuel and purchased power will again over allocate costs to  
18 the regulated electric companies and under allocate costs to nonregulated companies.  
19

20 **Q. ARE YOU AWARE OF ANY INSTANCES WHERE AN AFFILIATE HAS NOT**  
21 **BEEN ALLOCATED COSTS FROM SCS?**

22 A. Yes. Southern Renewable Energy was a recently formed unregulated affiliate, and to date  
23 no costs have been allocated to it from SCS. Thus I believe it is equitable to assess a two

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1 percent compensation payment, to be discussed later, to help offset the fact that Southern  
2 Renewable Energy was not allocated any of these costs.

3  
4 **Q. ARE YOU AWARE OF ANY AUTHORITATIVE SOURCES THAT RECOGNIZE**  
5 **THE IMPORTANCE OF BENEFITS IN DISTRIBUTING COMMON COSTS?**

6 A. Yes. The Cost Accounting Standards Board (CASB) issues several cost account standards  
7 that relate to cost allocations and the allocation of costs to affiliates. The principles outlined  
8 by the CASB were succinctly summarized in the publication Accounting for Public

9 Utilities:

- 10 (1) Expenses are to be directly assigned to the maximum extent  
11 possible;  
12 (2) Centralized corporate functions or management staff costs should  
13 be accumulated into homogenous cost pools;  
14 (3) Such cost pools should be allocated using representative bases that  
15 reflect cost causation or benefits, where identifiable; and  
16 (4) Where direct causal relationship or benefits cannot be determined  
17 or a direct relevant allocation base cannot be identified, cost pools  
18 may be allocated on some other reasonable basis that reflects the  
19 benefits of the services received.<sup>26</sup>

20  
21 **Q. DO YOU HAVE A RECOMMENDATION THAT WILL BALANCE THE**  
22 **BENEFITS RECEIVED BY THE NONREGULATED COMPANIES FROM THEIR**  
23 **ASSOCIATION WITH THE REGULATED OPERATING COMPANIES?**

24 A. Yes. I recommend that the Commission assess a two percent compensation payment on the  
25 revenue earned by the nonregulated companies. This revenue should be allocated to the  
26 regulated companies on the basis of the amount of revenues earned by the nonregulated

---

<sup>26</sup> Accounting for Public Utilities, LexisNexis, 19-11.



**REDACTED VERSION**

1 companies. This two percent compensation payment allocated from the nonregulated  
2 companies to the regulated operating companies will compensate the regulated operating  
3 companies for the significant intangible benefits that the regulated operating companies  
4 developed over the years and have provided to the nonregulated companies at no cost  
5 simply by their close affiliation and association.  
6

7 **Q. HAS THE COMMISSION IMPOSED A COMPENSATION PAYMENT IN**  
8 **PRIOR CASES?**

9 A. Yes. the Commission imposed such a compensation payment on United Telephone  
10 Company of Florida's ("UTF") long distance subsidiary United Telephone Long  
11 Distance, Inc. ("UTLD") to ensure customers were compensated for the intangible  
12 benefits it receives by the use of the parent company's name, logo, and reputation. In  
13 upholding the Commission's decision to impose a compensation payment (which the  
14 Supreme Court equated to a royalty), the Supreme Court quoted the following from the  
15 Commission's order:

16 We [the Commission] find it is in the public interest to require UTLD to  
17 compensate UTF for the many intangible benefits it receives, including,  
18 but not limited to the following: the use of the United name; the use of the  
19 United logo; reliance on the United reputation; immediate access to  
20 financing; and the ability to capitalize, through contractual arrangements,  
21 on a trained, skilled workforce.  
22

23 UTLD's relationship to UTF avoids all the start-up costs a fledgling  
24 competitor faces when it enters the long distance market. UTF is  
25 essentially a one-stop-shopping center for all of UTLD's technical,  
26 personnel, administrative, informational and financial needs. We find it  
27 unfair to allow UTLD to rely on these benefits without compensating  
28 UTF.  
29


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1           Accordingly, the compensatory fee reflects our belief that these benefits  
 2           were established and are being maintained by the monopoly company,  
 3           UTF, at ratepayers' expense. The actual fee to be collected shall equal  
 4           2.8% of the difference between net revenues (gross revenues minus  
 5           uncollectibles) and originating and terminating access charges. However,  
 6           in no event shall the fee exceed, on an after tax basis, 17.5% of UTLTD's  
 7           net operating income to be computed without the fee....

8  
 9           Finally, we recognize that in the future additional services will be  
 10          provided by the unregulated entity. The result will be a vast pool of  
 11          resources developed and maintained at the expense of the monopoly's  
 12          ratepayers but used increasingly by unregulated operations. Therefore, by  
 13          our action in this docket, we announce our intention to require payments  
 14          to regulated utilities for intangible benefits provided to nonregulated  
 15          affiliates.<sup>27</sup>

16          The Supreme Court found the compensation payment imposed by the Commission was  
 17          supported by competent, substantial evidence; authorized by statute; and constitutionally  
 18          permissible.<sup>28</sup>

19  
 20      **Q.    WHAT IS THE INCREASE IN REVENUE TO THE COMPANY'S REGULATED**  
 21      **OPERATION WITH THE IMPOSITION OF A TWO PERCENT**  
 22      **COMPENSATION PAYMENT?**

23      A.    A two percent compensation payment assessed against the nonregulated revenue to  
 24       would  
 25      result in an increase to the Company's test year revenue of \$1.5 million.

26  
 27  
 28  


---

<sup>27</sup> United Telephone Long Distance, Inc. v Katie Nichols et al., 546 So. 2d 717, 719 (Fla. 1989).<sup>27</sup>

<sup>28</sup> Id. at 720.

**REDACTED VERSION**

1 **Q. LET'S DISCUSS THE ALLOCATION FACTORS THAT YOU RECOMMEND**  
2 **FOR THE ALLOCATION OF SCS EXPENSES. DO YOU HAVE A SCHEDULE**  
3 **THAT SHOWS YOUR RECOMMENDED ALLOCATION FACTORS?**

4 A. Yes. Schedule KHD-8 depicts the changes to the allocation factors that I recommend. My  
5 recommended changes both increase and decrease factors for Gulf Power and the other  
6 operating companies.

7  
8 **Q. WHAT IS THE RESULT OF YOUR RECOMMENDED CHANGES TO THE SCS**  
9 **ALLOCATION FACTORS?**

10 A. Schedule KHD-9 shows the impact by FERC account for my recommended changes in the  
11 allocation factors. As shown, in total, my recommended allocation factor changes reduce  
12 the expenses to the Company by \$832,284.

13  
14 **V. Nonregulated Services and Products**

15 **Q. LET'S TURN TO THE NEXT SECTION OF YOUR TESTIMONY. DOES THE**  
16 **COMPANY PROVIDE NONREGULATED SERVICES AND PRODUCTS?**

17 A. Yes. The Company offers several products and services that are not regulated nor tariffed  
18 by the Commission. The revenues and costs for these products and services appear to be  
19 recorded below-the-line for ratemaking purposes. Similar to situations with nonregulated  
20 affiliates, because these profits are recorded below-the-line for ratemaking purposes,  
21 there is an incentive to shift costs to the regulated operations which will yield higher  
22 profits for Gulf Power and its parent company. Like the provision of goods and services  
23 between regulated and nonregulated affiliates, the Commission should ensure that the

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1 regulated operations of Gulf Power do not subsidize the nonregulated operations.

2  
3 **Q. DOES THE COMMISSION HAVE ANY RULES GOVERNING THE COSTS**  
4 **CHARGED BETWEEN REGULATED AND NONREGULATED OPERATIONS**  
5 **OF ELECTRIC UTILITIES?**

6 A. Yes. According to the Commission's Cost Allocation and Affiliate Transactions Rule,  
7 25-6.1351(1), F.A.C., the "purpose of this rule is to establish cost allocation requirements  
8 to ensure proper accounting for affiliate transactions and *utility nonregulated activities* so  
9 that these transactions and activities are not subsidized by utility ratepayers." (emphasis  
10 added). Utility nonregulated activities should be covered by this rule, and the  
11 Commission can utilize the same principles embodied in subsection (3) of Rule 25-  
12 6.1351, F.A.C., as guidelines for examining the relationship between the Company's  
13 regulated and nonregulated operations, thus, ensuring that the regulated operations do not  
14 subsidize the nonregulated operations.

15  
16 **Q. DOES THE COMPANY'S COST ACCOUNTABILITY AND CONTROL**  
17 **MANUAL EXPLAIN HOW THE NONREGULATED COSTS AND REVENUES**  
18 **ARE ACCOUNTED FOR RATEMAKING OR ACCOUNTING PURPOSES?**

19 A. No. There is no discussion in the manual about how the costs associated with providing  
20 these services or products are treated for ratemaking or accounting purposes.

21  
22 **Q. WOULD YOU DESCRIBE THE NONREGULATED SERVICES AND**  
23 **PRODUCTS THAT ARE OFFERED BY THE COMPANY?**

**REDACTED VERSION**

1 A. Yes. The Company offers three different products and services that are not regulated by  
2 the Commission: Premium Surge, Commercial Surge, and AllConnect. Gulf Power  
3 describes Premium Surge as a

4 ... residential program that provides the installation and service of  
5 warranted surge protection equipment on a customer's electric meter,  
6 telephone and coaxial cable or Satellite TV service entrances, backed by  
7 the device manufacturer. The warranty limit is \$50,000 per occurrence up  
8 to \$5,000 per appliance. Fees associated with this product include: \$24.99  
9 Install fee; \$9.99 monthly service fee (1 meter, 2 phone lines, 1 coaxial  
10 cable); \$1.50 per additional phone or coaxial line. Installation and service  
11 is provided through a third party contractor.<sup>29</sup>  
12  
13

14 **Q. HOW WOULD YOU DESCRIBE COMMERCIAL SURGE?**

15 A. Commercial Surge is a commercial program like the residential program that offers the  
16 installation and service of surge protection equipment on a customer's electric service  
17 entrance. The warranty limit is \$10,000 per occurrence. The cost of the product includes  
18 a \$50.00 installation fee; a single phase protection fee of 14.99 per month per installed  
19 device; and a three-phase protection fee of \$19.99 per month per installed device. The  
20 Company provides a 10 percent discount for customers with three or more meters.  
21 Installation and service is provided through third party contractors.  
22

23 **Q. WHAT IS THE ALLCONNECT PROGRAM?**

24 A. AllConnect is a service designed to allow consumers to select their electricity, local  
25 telephone, long distance, cable, home security, and newspaper providers and arrange  
26 hook-ups at the time they initiate service with Gulf Power. The Company's customer

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<sup>29</sup> Company Response to OPC Interrogatory 65.

**REDACTED VERSION**

1 service representatives offer this option to the customer upon completion of their phone  
2 contact for electric service. The script used by the customer service representatives is  
3 shown on Schedule KHD-10. With the customer's permission, they are connected to an  
4 AllConnect customer service representative who assists the Gulf customer with the hook-  
5 up and initiation of other utilities and services for their home. In return for this referral,  
6 AllConnect shares 20 percent of all revenues generated from the customer initiating  
7 additional utility or media hook-ups through AllConnect. Gulf does not charge customers  
8 for this service.<sup>30</sup> This revenue, however, is booked below-the-line despite the fact that  
9 the Company incurs little costs associated with earning this revenue, and this revenue  
10 could not be earned if it were not for the regulated operations.

11  
12 **Q. DO YOU HAVE ANY CONCERNS ABOUT THE COMPANY'S**  
13 **NONREGULATED OPERATIONS AND HOW ITS COSTS ARE ACCOUNTED**  
14 **FOR RATEMAKING OR ACCOUNTING PURPOSES?**

15 **A.** I have several concerns. First, there are substantial benefits to the Company's  
16 nonregulated operations being associated with the regulated company. These benefits  
17 include the use of Gulf Power's name, logo, reputation, goodwill, and corporate image;  
18 being associated with a large, financially strong, well-entrenched electric company; use  
19 of the personnel; and use of Gulf Power's facilities and website. All of these benefits  
20 were developed by the regulated operations. However, the nonregulated operations obtain  
21 these significant intangible benefits for being associated with the regulated utility  
22 operations at no cost.

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<sup>30</sup> Company Response to OPC Document Request 131.

**REDACTED VERSION**

1 **Q. HAVE YOU EXAMINED ANY DATA WHICH INDICATES THAT GULF**  
2 **POWER'S NONREGULATED OPERATIONS ARE UNDER ALLOCATED**  
3 **COSTS?**

4 A. Yes. I examined the return on net investment earned by the Company's nonregulated  
5 operations as a gauge of whether or not the costs have been properly assigned or  
6 allocated. To the extent the return on investments appears abnormal, the Commission  
7 should be concerned about the attribution of costs between the Company's regulated and  
8 nonregulated operations.

9  
10 **Q. WHAT RETURN ON INVESTMENT DID THE COMPANY'S NONREGULATED**  
11 **OPERATIONS EARN?**

12 A. As shown on Schedule KHD-11, based upon the data supplied by the Company for  
13 revenues, expenses, and net investment of the nonregulated operations, this segment of  
14 Gulf Power earned a return of 21.6 percent in 2009, 24.2 percent for 2010, and 28.9  
15 percent for the projected test year of 2012. Such high returns on investment are abnormal  
16 and strongly suggest that the costs attributed to the nonregulated operations are seriously  
17 understated.

18  
19 **Q. ARE COSTS ASSIGNED TO THESE PRODUCTS AND SERVICES?**

20 A. Yes. The Company's response to Citizen's Interrogatory 65 indicates that there are direct  
21 costs associated with the provision of these nonregulated services and products; however,  
22 no overhead costs are allocated or assigned to the Premium Surge and Commercial Surge

**REDACTED VERSION**

1 protection products.<sup>31</sup> Regarding the AllConnect service, the Company's response  
2 specifically indicated that "[d]irect labor expenses for Gulf's personnel are charged  
3 through Gulf's payroll system."<sup>32</sup>  
4

5 **Q. ARE THE CUSTOMERS THAT PURCHASE THE NONREGULATED**  
6 **SERVICES AND PRODUCTS THE SAME CUSTOMERS TO WHOM THE**  
7 **COMPANY PROVIDES ELECTRIC SERVICE?**

8 A. Yes. All customers that purchase the three nonregulated products and services are Gulf  
9 Power ratepayers. There is not one non-ratepayer who purchases these products and  
10 services from or through Gulf Power. The ability of the Company to earn an excessive  
11 rate of return from these nonregulated products and services is a function of the regulated  
12 electric operations and not some extraordinary effort of the Company's nonregulated  
13 operations. Without the close association with and good will of the regulated electric  
14 utility, Gulf Power could not offer these nonregulated products and services.  
15

16 **Q. HOW CAN THE COMMISSION ENSURE THAT THE REGULATED**  
17 **OPERATIONS DO NOT SUBSIDIZE THE NONREGULATED OPERATIONS?**

18 A. There are at least three options the Commission should consider. First, it could require  
19 the Company to properly allocate all overhead costs to the nonregulated operations;  
20 however, this fails to consider the significant benefits the nonregulated operations gain  
21 from the regulated operations. In addition to allocating costs to the nonregulated  
22 affiliates, the Commission should assess a compensation payment for the intangible

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<sup>31</sup> Company Response to OPC Interrogatory 254.

<sup>32</sup> Company Response to OPC Interrogatory 65.



**REDACTED VERSION**

1 benefits the nonregulated operations receive from their association with the regulated  
2 electric company. Clearly, there are no overhead costs assigned or allocated to provision  
3 of this service. Thus a compensation payment similar to the one set forth in the United  
4 Telephone case discussed earlier could be assessed.

5

6 **Q. WHAT IS THE SECOND METHOD THE COMMISSION CAN USE?**

7 A. The Commission could determine a reasonable rate of return that should be achieved by  
8 the nonregulated operations. Anything in excess of this return should be returned to  
9 ratepayers.

10

11 **Q. WHAT IS THE THIRD OPTION?**

12 A. The Commission could move the revenues, expenses, and investments above-the-line for  
13 purposes of establishing rates in this proceeding.

14

15 **Q. WHAT IS YOUR RECOMMENDATION?**

16 A. I recommend that the Commission choose the third option that I have offered and  
17 essentially treat these revenues, expenses, and investments above-the-line for rate setting  
18 purposes. The Company has failed to demonstrate that costs have been properly allocated  
19 to these nonregulated operations. In addition, the Company has not shown that it has been  
20 compensated for the use of its reputation, goodwill, logo, and trained personnel.

21

22 To implement this recommendation, I developed an adjustment to test year revenue by  
23 using the return on rate base recommended by Dr. Woolridge of 5.45 percent. The

**REDACTED VERSION**

1 difference between the allowed net operating income and the achieved net operating  
2 income, grossed up for income taxes, is the amount of revenue that should be moved  
3 above-the-line for rate setting purposes. As shown on Exhibit KHD-12, I recommend an  
4 adjustment to test year revenue of \$.572 million.

5  
6 In addition, I recommend that the Commission order the Company to conduct a thorough  
7 examination of these operations and develop cost allocation procedures that can be used  
8 to allocate costs to these nonregulated operations. These procedures can then be  
9 examined and audited as part of the Company's next rate proceeding. However, until the  
10 Company properly accounts for these costs, the Commission should treat all amounts  
11 above-the-line for ratemaking purposes.

12  
13 **Q. IF THE COMMISSION DOES NOT ADOPT YOUR PRIMARY**  
14 **RECOMMENDATION, DO YOU HAVE AN ALTERNATIVE**  
15 **RECOMMENDATION?**

16 **A.** Yes. I recommend that the Commission require that the nonregulated operations provide  
17 the Company a compensation payment of at least two percent of annual revenue. This is  
18 much lower than the high-end of the compensation payment of 17 percent ordered by the  
19 Commission in the United Telephone case just discussed which set a maximum of 17  
20 percent of net operating income.

**REDACTED VERSION**1 **VI. Other Affiliate Adjustments**2 **Q. DO YOU HAVE ANY OTHER AFFILIATE ADJUSTMENTS?**3 A. Yes. I have several adjustments that relate to SCS Work Orders charged to Gulf Power  
4 which are shown on Schedule KHD-13.  
56 **Q. WOULD YOU PLEASE ADDRESS YOUR FIRST ADJUSTMENT?**7 A. Yes. In response to Citizens' Interrogatory 229, the Company provided some specific  
8 details concerning work orders charged to the Company by SCS. Several of these work  
9 orders, in my opinion, should not be charged to Gulf Power. For example, the 2012 test  
10 year includes \$294,765 to support SouthernLINC (a nonregulated affiliate). According  
11 to Southern Company's Form 10-K, "SouthernLINC Wireless provides digital wireless  
12 communications for use by Southern Company and its subsidiary companies and markets  
13 these services to the public and also provides wholesale fiber optic solutions to  
14 telecommunication providers in the Southeast."<sup>33</sup> In addition, SouthernLINC was  
15 primarily responsible for a decrease in non-electric operating revenues in 2009 and 2010,  
16 and Southern Company attributed the decreased revenues of \$19 million in 2010 and \$25  
17 million in 2009 to "to lower average revenue per subscriber and fewer subscribers due to  
18 increased competition in the industry."<sup>34</sup> SouthernLINC's website shows that its  
19 regional wireless coverage map coincides with the service territories of Southern  
20 Company's regulated utilities.<sup>35</sup>  
21

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<sup>33</sup> Southern Company, Form 10-K, p. I-1.<sup>34</sup> Southern Company, Form 10-K, p. II-19.<sup>35</sup> SouthernLINC regional coverage map, available at <http://www.southernlinc.com/coverage.aspx>.

**REDACTED VERSION**

1 According to the response to Citizens' Interrogatory 229, all affiliates are responsible for  
2 the total SouthernLINC charges that are not able to be recovered through commercial  
3 revenues<sup>36</sup> The Company's response indicates that in 2012, the charges to Gulf Power are  
4 projected to increase because of the "larger than anticipated drop in commercial customer  
5 revenue, thus the total SouthernLINC bill to each affiliate increased."<sup>37</sup> SouthernLINC is  
6 an unregulated affiliate, and its losses should not be subsidized by Gulf Power's  
7 ratepayers. Therefore, I recommend that the Commission remove \$294,765 from the test  
8 year associated with the projected increase in 2012 test year expenses, \$79,141 of which  
9 is related to capital.

10  
11 **Q. WOULD YOU PLEASE DISCUSS YOUR NEXT ADJUSTMENT?**

12 **A.** Yes. The next adjustment shown on Schedule KHD-13 relates to Work Order 466909.  
13 According to Gulf, the Work Order relates to a system-wide project to investigate an  
14 asset management system to keep track of distribution assets, i.e., poles, switches,  
15 reclosers, etc. The Company proposes to increase the dollars associated with this Work  
16 Order by \$344,204 or 587 percent. This increase in cost was booked to FERC Account  
17 588, Miscellaneous Distribution Expenses. The description of the Work Order suggests  
18 that the proposed increase in expenditures should be offset by cost savings, which do not  
19 appear to be included in the test year. In addition, the Company has not provided any  
20 information regarding the cost effectiveness of the proposed costs. Moreover, the  
21 abbreviated description suggests that the costs could be capitalized as opposed to

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<sup>36</sup> Company Response to OPC Interrogatory 229.

<sup>37</sup> Company Response to OPC Interrogatory 229.

**REDACTED VERSION**

1 expensed. Based upon the Company's failure to justify the increase in costs for this  
2 Work Order, I recommend that the costs be disallowed, for an adjustment of \$387,596.

3  
4 **Q. WHAT IS YOUR NEXT ADJUSTMENT?**

5 A. My next adjustment relates to Work Order 46C805 for Wireless Systems. According to  
6 the Company, after the conversion to Enterprise Solutions, it became necessary for billing  
7 from the Georgia Power Company ("GPC") Oakbrook Warehouse to flow through the  
8 SCS Work Order system and then get billed to the individual operating companies. This  
9 Work Order amounted to \$2.2 million charged to Gulf Power. According to the  
10 Company's response to Citizens' Interrogatory 229, the "dollars in this Work Order are  
11 for capital equipment required for such projects as Converge Networks."<sup>38</sup> Gulf also  
12 states that these costs should be offset with a reduction of direct bill materials from GPC.  
13 The Company has provided no documentation or other evidence that the savings that will  
14 offset these capital dollars have been reflected in the test year. In the absence of such a  
15 showing, I recommend that \$387,596 be removed from the test year.

16  
17 **Q. WHAT IS YOUR NEXT GROUP OF ADJUSTMENTS?**

18 A. The Citizens requested that the Company provide additional supporting documentation  
19 for selected Work Orders included in the test year. The Company was unable to provide  
20 several of the requested Work Orders, which show the purpose of the Work Order, the  
21 method used to allocate costs, and the client company. I recommend that the Commission  
22 disallow all of the expenses associated with these Work Orders since the Company was  
23 unable to provide the Work Orders demonstrating the need, the method used to allocate

---

<sup>38</sup> Response to OPC Interrogatory 229.

**REDACTED VERSION**

1 the costs, and the company(ies) the costs should be charged to. As shown on Schedule  
2 KHD-13, the Work Orders are: 46EZBL, 46IDMU, 46LRBL, 47VSES, 47VSTB,  
3 47VSTH, 47VSZ1, and 47VSZ5. These Work Orders total \$190,945. Without supporting  
4 documentation for the need of these services, the expenses should be removed from test  
5 year expenses, which results in an adjustment of \$186,780.

6

7 **Q. WHY DO YOU RECOMMEND THAT \$116,841 BE DISALLOWED FOR THE**  
8 **WORK ORDER ACCOUNTING – COMPTROLLER?**

9 A. According to the description, Work Order 471701 (Accounting-Comptroller) relates to  
10 the accumulation of costs associated with a Securities and Exchange Commission inquiry  
11 of the Southern Electric System that was initiated in 1989. It is not clear what service is  
12 being provided to Gulf and its customers as a result of the Work Order or if the  
13 description remains valid today. In the absence of supporting documentation showing  
14 that the costs booked to this Work Order are beneficial to Gulf Power and its customers I  
15 recommend that the cost in the amount of \$116,841 be removed from the test year  
16 expenses.

17

18 **Q. WORK ORDER 473401 STATES THAT IT RELATES TO SOUTHERN**  
19 **COMPANY HUMAN RESOURCES MANAGEMENT. WHY DO YOU**  
20 **RECOMMEND THAT THIS COST NOT BE RECOVERED FROM**  
21 **CUSTOMERS?**

22 A. The description for the increase in Work Order 473401 relative to 2011 indicates that it  
23 relates to consulting funds for an outside benefits review. The Company's reason for the

**REDACTED VERSION**

1 budget increase relative to 2011 suggests that this benefits review does not occur on an  
2 annual basis. Therefore, I recommend that this expense be amortized over two years and  
3 that \$18,067 be removed from the test year.  
4

5 **Q. ARE YOU MAKING THE SAME RECOMMENDATION CONCERNING THE**  
6 **WORK ORDER RELATED TO THE CUSTOMER SUMMIT WORK ORDER**  
7 **49SWCS?**

8 **A.** Yes. In response to Citizens' Interrogatory 229, the Company explained that the reason  
9 for the increase in Work Order 49SWCS from the 2011 budget to the 2012 budget was  
10 due to the fact that the customer summit is only held every other year. Therefore, I  
11 recommend that \$20,831 be removed from the test year to reflect a two-year amortization  
12 of this expense.  
13

14 **Q. WHAT IS YOUR RECOMMENDATION REGARDING WORK ORDERS**  
15 **4Q51RC (SCGEN IT: SUPPORT OF RAILCAR MAINTENANCE) AND 4QPA01**  
16 **(PAS CENTRAL SYSTEM INTEGRITY)?**

17 **A.** For both of these work orders, the Company explained that the increase in the expense  
18 amount from the 2011 budget to the 2012 budget was due to moving a formerly  
19 capitalized item for Work Order 4Q51RC and a formerly CWIP classified Work Order  
20 4QPA01 to expense. The Company has failed to demonstrate these costs should be  
21 expensed as opposed to capitalized. It has not provided any evidence that the costs are  
22 recurring in nature and should be included in test year expenses. Therefore, I recommend

**REDACTED VERSION**

1 that the Commission reject these proposed reclassifications and reduce test year expenses  
 2 by \$20,102 and \$102,411, respectively for these two items.

3  
 4 **Q. YOUR SCHEDULE KHD-12 CONTAINS DISALLOWANCES FOR PUBLIC**  
 5 **RELATIONS EXPENSES IN THE AMOUNT OF \$17,482 ASSOCIATED WITH**  
 6 **WORK ORDER 474401. DOES THE COMMISSION TYPICALLY ALLOW**  
 7 **THESE TYPES OF EXPENSES?**

8 **A.** No. The Commission has typically disallowed expenses that are public relations oriented,  
 9 finding that they benefit stockholders, not customers. When discussing the inclusion of  
 10 membership dues and contributions in a utility's test year expenses that are public  
 11 relations oriented, the Commission found:

12 We acknowledge that some benefits may be accrued as a result of these  
 13 expenses. However, we agree with OPC that costs related to contributions  
 14 and membership dues, which are public relations oriented, should be  
 15 disallowed. These costs serve to improve the image of the company,  
 16 resulting in a direct benefit to the utility's shareholders, not to the  
 17 customers. This treatment has been consistently applied by the  
 18 Commission, as evidenced by Orders Nos. PSC-93-0301-FOF-WS at 19-  
 19 20 and PSC 96-1320-FOF-WS at 151-153, which Orders were officially  
 20 recognized in this proceeding.<sup>39</sup>

21 In a water and wastewater case involving Southern States Utilities, Inc., the Commission  
 22 made several findings on what was appropriate to charge customers as it related to public  
 23 relations-related expenses.

24 Mr. Ludsen disagreed with OPC that a public relations retainer is  
 25 generally not a proper charge for rate case expense. Although he did not  
 26 know specifics about the charge, Mr. Ludsen stated that the uniform rate  
 27 investigation benefitted this case because of broader customer input. Mr.

<sup>39</sup> Florida Public Service Commission, United Water Florida Inc., Docket No. 960451-WS PSC-97-0618-FOF-WS, May 30, 1997.



**REDACTED VERSION**

1 Ludsen did not think that SSU was trying to enhance its image, but instead  
2 trying to inform customers through brochures about the issues in the case.

3 When asked about legislative charges from the Messer Vickers law firm,  
4 Mr. Ludsen could not explain to what those related. He agreed, in general,  
5 that legislative expenses should not be charged to customers. Specifically,  
6 Mr. Ludsen agreed that charges from Landers and Parsons for preparing  
7 testimony for a Senate hearing should be removed.

8 Mr. Ludsen's response to why open houses with customers, in addition to  
9 the Commission hearings, should be charged to customers was that it was  
10 a benefit to the case. If it benefitted the case, then it benefitted the  
11 customers. He did admit that those open houses were not required by the  
12 Commission.

13 ...

14 We believe that if SSU sees a need to inform its customers or the press  
15 about the issues in the case beyond what our rules require, then those  
16 expenditures must be borne by SSU, not the customers. Accordingly, all  
17 charges related to telemarketing, public relations, uniform rate bill inserts,  
18 mailings and door hangers, cellular telephone bills and bus transportation  
19 shall be removed. Mr. Ludsen was unable to justify why a banquet or  
20 lunch was necessary and reasonable; accordingly, this amount shall be  
21 removed. As agreed to by Mr. Ludsen, any legislative or lobbying charges  
22 shall also be removed.<sup>40</sup>

23 Furthermore, the Commission ordered that image-enhancing advertising expenses be  
24 removed in Gulf Power's last rate case:

25 We find that the ads in Part C of Exhibit 22 are purely image enhancing.  
26 Gulf does not refute this. For this reason the cost of the ads shall not be  
27 included in base rates, and Gulf shall not be allowed to recover the  
28 advertising expense of \$539,000 (\$550,000 system).<sup>41</sup>

29 Based upon past precedent, the Commission should continue its policy and remove these  
30 expenses from the test year.

<sup>40</sup> Florida Public Service Commission, Southern States Utilities, Inc. Docket No. 950495-WS; Order No. PSC-96-1320-FOF-WS, October 30, 1996.

<sup>41</sup> Florida Public Service Commission, Gulf Power Company. Docket No. 010949-EI; Order No. PSC-02-0787-FOF-IE, June 10, 2002.

**REDACTED VERSION**

1 **Q. WHAT IS YOUR RECOMMENDATION ABOUT WORK ORDER 471501**  
2 **(INVESTOR-RELATIONS-GENERAL)?**

3 A. I recommend that the Commission move this item below-the-line for ratemaking  
4 purposes. This expense is for the benefit of stockholders, not ratepayers. The  
5 Commission has removed costs related to shareholder costs in prior rate cases. In Order  
6 No. PSC-96-1320-FOF-WS, the Commission found that:

7 Through the ROE leverage formula, we have allowed recovery of costs  
8 associated with being a publicly traded utility. Specifically, in the  
9 calculation of the appropriate cost of equity, we recognized an additional  
10 25 basis points to the otherwise determined cost of equity to provide for  
11 these costs. To ask SSU's ratepayers to pay 25 basis points on ROE in  
12 addition to the amount requested by SSU would be duplicative. We also  
13 question whether the benefits SSU receives from MP&L are worth  
14 \$208,776 to the ratepayers in Florida. Consequently, we shall disallow all  
15 of the utility's requested shareholder services expenses of \$208,776.<sup>42</sup>

16 I recommend that the Commission continue its practice and remove these expenses, in the  
17 amount of \$96,851 from the test year.

18

19 **Q. WOULD YOU ADDRESS WORK ORDERS 473ECO AND 473ECS?**

20 A. Yes. These two Work Orders are related to Chief Operating Officer legal expenses and  
21 External Affairs legal matters. It is not clear that the costs charged to these two accounts  
22 benefit ratepayers. Therefore, unless the Company is able to demonstrate that these  
23 expenses are beneficial to ratepayers, I recommend that they be excluded from test year  
24 expenses. As shown on Schedule KHD-12 they amount to \$33,690.

25

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<sup>42</sup> Florida Public Service Commission, Southern States Utilities, Inc. Docket No. 950495-WS; Order No. PSC-96-1320-FOF-WS, October 30, 1996.

**REDACTED VERSION**

1 **Q. WHAT IS YOUR RECOMMENDATION CONCERNING WORK ORDER 486030**  
2 **RELATED TO AIRCRAFT?**

3 A. The increase in expenses for Work Order 486030 from the test year relate to an  
4 unexplained increase in aircraft expenses and amount to a 97 percent increase over the  
5 2011 amount. I recommend that the increase over the budgeted 2011 amount be removed  
6 from test year expenses. The adjustment to test year expenses is \$101,859. In addition,  
7 there is outstanding discovery on aircraft lease expenses that were being negotiated  
8 between OPC and the Company at the time of the filing of my testimony. Depending on  
9 the timing of these negotiations and the additional information supplied by the Company,  
10 it may be necessary to supplement my testimony on these expenses.

11

12 **Q. WHAT IS THE TOTAL AMOUNT OF ADJUSTMENT THAT YOU**  
13 **RECOMMEND CONCERNING THE WORK ORDERS JUST DISCUSSED?**

14 A. As shown on Schedule KHD-13 the adjustments reduce total company test year capital  
15 by \$.467 million and expenses by \$1.3 million.

16

17 **Q. DOES THIS COMPLETE YOUR TESTIMONY?**

18 A. Yes, it does.

1 BY MR. SAYLER:

2 Q. And you have prepared a summary of your  
3 testimony today?

4 A. Yes, I have.

5 Q. All right. Would you please summarize your  
6 testimony for this Commission?

7 A. Yes. Good morning, Commissioners. My  
8 testimony addresses the transactions between Gulf Power  
9 and its affiliates. Gulf Power is a wholly owned  
10 subsidiary of Southern Company. Southern Company has  
11 both regulated and non-regulated subsidiaries. Gulf  
12 Power had nearly \$81 million in transactions with its  
13 affiliates during the test year. The majority of Gulf  
14 Power's affiliate transactions are with Southern Company  
15 Services, of which \$56 million was included in the test  
16 year.

17 It's important to closely examine affiliate  
18 transactions to ensure that customers of the regulated  
19 utility are not subsidizing the operations of the  
20 non-regulated companies. This Commission has  
21 consistently held that the standard in evaluating  
22 affiliate transactions is whether or not they exceed the  
23 going market rate or are otherwise inherently unfair.

24 In the first section of my testimony, I  
25 examine the methodology used to allocate costs from

1 Southern Company Services to Gulf Power and its sister  
2 companies. Southern Company Services provides a variety  
3 of services to Gulf Power and also to non-regulated  
4 companies. The services provided by Southern Company  
5 Services include, but is not limited to, legal,  
6 accounting, human resource, customer operations,  
7 engineering, information resources, and executive  
8 management.

9 Southern Company's non-regulated subsidiaries  
10 receive significant benefits from their association with  
11 Gulf Power and its sister operating companies. These  
12 benefits include the operating company's reputation,  
13 goodwill, corporate image, being associated with a  
14 large, financially strong, well-entrenched electric  
15 companies, and using the personnel of Southern Company  
16 Services, who was established for the purposes of  
17 serving the regulated companies.

18 The balance of the significant benefits  
19 received by non-regulated companies from their  
20 association with -- to balance, I'm sorry, to balance  
21 the significant benefits that Gulf Power receives from  
22 being associated with -- let me start over.

23 To balance significant benefits received by  
24 the non-regulated companies from their association with  
25 Gulf Power, I recommend that the Commission assess a

1 2 percent compensation payment on the revenue earned by  
2 the non-regulated affiliates. This recommendation  
3 results in an increase to Gulf Power's test year revenue  
4 of \$1.5 million.

5 My next recommendation focuses on the  
6 allocation factors used to distribute costs from  
7 Southern Company Services to Gulf Power and Southern  
8 Company's non-regulated affiliates. There are several  
9 problems with these allocation factors.

10 First, the factors used to allocate projected  
11 2012 expenses were based on 2009 data. I recommend that  
12 the Commission adopt the changes that I recommend and  
13 use the factors using 2010 data.

14 Second, the 2012 test year allocations do not  
15 consider the impact of Southern Renewable Energy, which  
16 was formed in 2010. Therefore, the costs from Southern  
17 Company Services have not been allocated to this  
18 non-regulated company.

19 Third, the financial allocation factor, which  
20 distributes a significant portion of the administrative  
21 and general expenses, has several problems. For  
22 example, including revenue in the financial factor tends  
23 to allocate costs to -- tends to underallocate costs to  
24 the new non-regulated companies and overallocate costs  
25 of the well-entrenched electric companies. New startup

1 companies like Southern Renewable Energy produce little  
2 revenue, but yet they require a much greater level of  
3 effort from management. On the expense side, the  
4 financial factor includes fuel and purchased power,  
5 which overallocates costs to the regulated companies.

6 To overcome these problems, I recommend that  
7 the Commission remove the revenue component from the  
8 financial allocation factor and to remove the fuel and  
9 purchased power expenses from the expense component of  
10 the factor. My recommended adjustments would reduce  
11 test year expenses by \$832,000.

12 I am also addressing Gulf Power's  
13 non-regulated operations. Gulf Power offers three  
14 different non-regulated products and services,  
15 specifically, Premium Surge, Commercial Surge, and  
16 AllConnect. Again, there are substantial benefits to  
17 Gulf Power's non-regulated operations of being  
18 associated with the regulated company. In addition, all  
19 of the companies that purchase these three services are  
20 Gulf Power ratepayers.

21 I recommend that the Commission treat these  
22 revenues, expenses, and investments above the line for  
23 ratemaking purposes. For all intents and purposes, Gulf  
24 Power and its stockholders bear little or no risk that  
25 might suggest that the earnings of these non-regulated

1 services and products should be recorded below the line.  
2 My adjustment would increase test year revenue by  
3 \$572,000.

4 My final recommendation relates to specific  
5 service company work orders that I recommend be removed  
6 from the test year. My adjustments in this area lack  
7 supporting details -- because of lacking supporting  
8 details, I recommend that be test year investments be  
9 reduced by \$467,000 and test year expenses be reduced by  
10 1.4 million.

11 That completes my summary.

12 COMMISSIONER BROWN: We tender our witness for  
13 cross.

14 CHAIRMAN GRAHAM: Intervenors? Staff?

15 CROSS-EXAMINATION

16 BY MR. YOUNG:

17 Q. Ms. Dismukes, do you have your testimony with  
18 you?

19 A. Yes, I do.

20 Q. Can you turn to your Exhibit KHD-13?

21 A. Okay.

22 Q. At the bottom of KHD-13, "Capitalized," do you  
23 see that?

24 A. Yes, I do.

25 Q. And you see FERC account number 308?



1           A.    Yes.

2           Q.    Is that the correct account number?

3           A.    That is the account number that was provided  
4 by the company. We asked them to map the work orders to  
5 the FERC accounts, and in their response to the  
6 Citizens' Sixth Set of Interrogatories, Interrogatory  
7 229 -- it's actually on page 7 -- that account number is  
8 reflected for that particular work order.

9           Q.    Subject to check, if the response to the  
10 interrogatory had a different account number, that  
11 number would change to that account; correct?

12          A.    Yes.

13           MR. YOUNG: All right. No further questions.

14           CHAIRMAN GRAHAM: Commissioners? Commissioner  
15 Brown.

16           COMMISSIONER BROWN: Just one question. Good  
17 morning, Ms. Dismukes. Nice to see you back.

18           THE WITNESS: Thanks.

19           COMMISSIONER BROWN: Do you happen to know why  
20 Gulf used 2009 data in the allocation factors?

21           THE WITNESS: They indicated, I believe, in  
22 their rebuttal testimony that -- and they did  
23 update it in their rebuttal testimony -- that it  
24 wasn't available at the time they filed their rate  
25 case, but that's not correct. They filed their

1 rate case -- I believe it was in July of 2011. Is  
2 that right?

3 And usually your financial information, 10-Ks  
4 and information like that is available in April.  
5 So the information would have been available to  
6 them in a formal setting by April, and it would  
7 have been informally available to them in a period  
8 before that.

9 COMMISSIONER BROWN: Okay. Thank you.

10 CHAIRMAN GRAHAM: Redirect?

11 MR. SAYLER: No, sir.

12 CHAIRMAN GRAHAM: Exhibits.

13 MR. SAYLER: The Office of Public Counsel  
14 would move in Ms. Dismukes' exhibits on page 12,  
15 and they're numbered 39 through 51.

16 CHAIRMAN GRAHAM: Page 11?

17 MR. SAYLER: Page 11, yes, sir.

18 CHAIRMAN GRAHAM: Thirty-nine --

19 MR. SAYLER: Through 51.

20 CHAIRMAN GRAHAM: Through 51 will be entered  
21 into the record.

22 (Exhibit Numbers 39 through 51 were admitted  
23 into the record.)

24 MR. SAYLER: And Number 207 on page 32.

25 CHAIRMAN GRAHAM: And enter 207.

1 (Exhibit Number 207 was admitted into the  
2 record.)

3 THE COURT: And may our witness be excused?

4 CHAIRMAN GRAHAM: If there's no objections, we  
5 will excuse the witness.

6 MR. SAYLER: Thank you, Mr. Chairman. Thank  
7 you, Ms. Dismukes.

8 CHAIRMAN GRAHAM: Next witness?

9 MR. MCGLOTHLIN: OPC calls Dr. J. Randall  
10 Woolridge.

11 Dr. Woolridge, have you been sworn?

12 THE WITNESS: No, I haven't been. I have not.

13 CHAIRMAN GRAHAM: Is there anybody else in the  
14 audience that has not been sworn that's going to  
15 testify?

16 (Witness sworn.)

17 Thereupon,

18 J. RANDALL WOOLRIDGE

19 was called as a witness and, having been first duly  
20 sworn, was examined and testified as follows:

21 DIRECT EXAMINATION

22 BY MR. MCGLOTHLIN:

23 Q. Please state your name and your business  
24 address.

25 A. My name is the initial J. Randall Woolridge,

1 and that's spelled W-o-o-l-r-i-d-g-e. My business  
2 address is 310 South Allen Street, State College,  
3 Pennsylvania.

4 Q. By whom are you employed, sir, and in what  
5 capacity?

6 A. I'm a professor of finance at Penn State  
7 University.

8 Q. Dr. Woolridge, at our request did you prepare  
9 and submit on behalf of the Office of Public Counsel  
10 direct testimony in this docket on October 14, 2011?

11 A. Yes.

12 Q. Do you have that before you?

13 A. Yes.

14 Q. And have you prepared an errata sheet to that  
15 testimony?

16 A. Yes.

17 MR. MCGLOTHLIN: We have distributed that and  
18 ask for a number to be assigned.

19 CHAIRMAN GRAHAM: We'll assign Number 208 to  
20 that. We'll call it Errata to Woolridge Direct  
21 Testimony?

22 MR. MCGLOTHLIN: Yes.

23 (Exhibit Number 208 was marked for  
24 identification.)

25 BY MR. MCGLOTHLIN:

1 Q. Other than the changes reflected on the errata  
2 sheet, Dr. Woolridge, do you have any changes or  
3 corrections to make to your prefiled testimony?

4 A. No.

5 Q. Do you adopt that prefiled testimony as your  
6 testimony here today?

7 A. Yes.

8 Q. Did you also prepare some exhibits that  
9 accompanied the prefiled testimony?

10 A. Yes.

11 MR. MCGLOTHLIN: They're been assigned  
12 Exhibits 52 through 65 inclusive. And I request  
13 that the prefiled testimony be inserted at this  
14 point.

15 CHAIRMAN GRAHAM: We will insert  
16 Dr. Woolridge's prefiled direct testimony into the  
17 record as though read.

18

19

20

21

22

23

24

25

1 **DIRECT TESTIMONY**

2 **OF**

3 **J. RANDALL WOOLRIDGE**

4 On Behalf of the Office of Public Counsel

5 Before the

6 Florida Public Service Commission

7 Docket No. 110138-EI

8

9 **I. IDENTIFICATION OF WITNESS AND SUMMARY OF TESTIMONY**

10

11 **Q. PLEASE STATE YOUR FULL NAME, ADDRESS, AND OCCUPATION.**

12 A. My name is J. Randall Woolridge, and my business address is 120 Haymaker Circle,  
13 State College, PA 16801. I am a Professor of Finance and the Goldman, Sachs & Co.  
14 and Frank P. Smeal Endowed University Fellow in Business Administration at the  
15 University Park Campus of the Pennsylvania State University. I am also the Director  
16 of the Smeal College Trading Room and President of the Nittany Lion Fund, LLC. A  
17 summary of my educational background, research, and related business experience is  
18 provided in Exhibit JRW-1.

19

20 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

21 A. I have been asked by the Florida Office of Public Counsel ("OPC") to provide an  
22 opinion as to the overall fair rate of return or cost of capital for Gulf Power Company  
23 ("Gulf Power" or "Company") and to evaluate Gulf Power's rate of return testimony in  
24 this proceeding.

1 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

2 A. First, I review my cost of capital recommendation for Gulf Power. Second, I provide an  
3 assessment of capital costs in today's capital markets. Third, I discuss the selection of a  
4 proxy group of electric utility companies for estimating the cost of capital for Gulf  
5 Power. Fourth, I present my recommendations for the Company's capital structure and  
6 debt cost rate. Fifth, I discuss the concept of the cost of equity capital, and then estimate  
7 the equity cost rate for Gulf Power. Sixth, I provide a critique of Gulf Power's rate of  
8 return testimony. Finally, I discuss why it is appropriate to include a parent debt  
9 adjustment to Gulf's income tax expense calculation.

10

11 **Q. PLEASE REVIEW YOUR RECOMMENDATIONS REGARDING THE**  
12 **APPROPRIATE RATE OF RETURN FOR GULF POWER.**

13 A. I have employed the Company's proposed capital structure, but I adjusted the  
14 Company's proposed short-term and long-term cost rates. I applied the Discounted  
15 Cash Flow Model ("DCF") and the Capital Asset Pricing Model ("CAPM") to a proxy  
16 group of publicly-held electric utility companies ("Electric Proxy Group"). My analysis  
17 indicates that an equity cost rate of 9.25% is appropriate for Gulf Power. Using my  
18 capital structure and debt and equity cost rates, I recommend an overall rate of return of  
19 5.89% for Gulf Power. This recommendation is summarized in Exhibit JRW-2. On  
20 another related matter, I also provide an evaluation of Mr. Teel's discussion of the  
21 Parent Debt Adjustment Rule 25-14.004, F.A.C.

22

23 **Q. PLEASE SUMMARIZE THE PRIMARY ISSUES REGARDING RATE OF**  
24 **RETURN IN THIS PROCEEDING.**

1 A. Gulf Power witness Mr. Richard J. McMillan provides the Company's proposed  
2 capital structure and long-term debt cost rate, and Dr. James H. Vander Weide  
3 recommends a common equity cost rate for Gulf Power. Gulf Power's recommended  
4 capital structure includes 1.30% short-term debt, 47.83% long-term debt, 5.31%  
5 preferred stock, and 46.87% common equity. Gulf Power uses short-term and long-  
6 term debt cost rates of 2.12% and 5.45%, a preferred stock cost rate of 6.65% and an  
7 equity cost rate of 11.7%.

8 I have used the Company's proposed capital structure ratios. I have adjusted  
9 the proposed short-term and long-term debt cost rates and the preferred stock cost rate  
10 to reflect current market interest rates. I have recommended an equity cost rate of  
11 9.25% for Gulf Power. Gulf Power witness Dr. James H. Vander Weide's proposed  
12 common equity cost rate is 11.7%. Both Dr. Vander Weide and I have applied the  
13 DCF and the CAPM approaches to a proxy group of publicly-held companies. Dr.  
14 Vander Weide has also used a Risk Premium ("RP") approach to estimate an equity  
15 cost rate for Gulf Power. Dr. Vander Weide employs a proxy group of twenty-four  
16 electric utilities. I have employed a proxy group of twenty-eight electric utilities that  
17 is quite similar to Dr. Vander Weide's group. In his DCF approach, Dr. Vander  
18 Weide uses a quarterly DCF model and relies exclusively on the projected earnings  
19 per share ("EPS") growth rates of Wall Street analysts. I provide empirical evidence  
20 that demonstrates the long-term earnings growth rates of Wall Street analysts are  
21 overly optimistic and upwardly-biased. Consequently, in developing a DCF growth  
22 rate, I have used both historic and projected growth rate measures and have evaluated  
23 growth in dividends, book value, and earnings per share.

24 The RP and CAPM approaches require an estimate of the base interest rate  
25 and the equity risk premium. In both approaches, Dr. Vander Weide's base interest



1 rate is above current market rates. However, the major area of disagreement involves  
2 our significantly different views on the alternative approaches to measuring the equity  
3 risk premium, as well as the magnitude of equity risk premium. Dr. Vander Weide's  
4 equity risk premiums are excessive and do not reflect current market fundamentals.  
5 As I highlight in my testimony, there are three methodologies for estimating an equity  
6 risk premium – historic returns, surveys, and expected return models. Dr. Vander  
7 Weide uses a historical equity risk premium which is based on historic stock and  
8 bond returns. He also calculates an expected risk premium in which he applies the  
9 DCF approach to the S&P 500 and public utility stocks. I provide evidence that risk  
10 premiums based on historic stock and bond returns are subject to empirical errors  
11 which result in upwardly biased measures of expected equity risk premiums. I  
12 demonstrate that Dr. Vander Weide's projected equity risk premiums, which use  
13 analysts' EPS growth rate projections, include unrealistic assumptions regarding  
14 future economic and earnings growth and stock returns. Finally, I demonstrate that  
15 Dr. Vander Weide's market and equity risk premiums are well above the market and  
16 equity risk premiums used in the real world of finance.

17 Finally, Dr. Vander Weide makes two unwarranted adjustments in developing  
18 an equity cost rate. In his DCF, RP, and CAPM approaches, Dr. Vander Weide  
19 makes an unnecessary adjustment for flotation costs. This serves to inflate his DCF  
20 equity cost rate. In addition, Dr. Vander Weide also makes an overall leverage  
21 adjustment to his equity cost rate estimate. This adjustment is based on the leverage  
22 difference between the market value capital structures of his electric utility group and  
23 Gulf Power's book value capital structure, which is used for ratemaking purposes. The  
24 adjustment increases his equity cost rate estimate by 90 basis points. In my testimony I

1 discuss why this adjustment is not appropriate and highlight the fact that it produces  
2 illogical results.

3 In the end, the most significant areas of disagreement in measuring Gulf Power's  
4 cost of capital are: (1) the appropriate debt and preferred stock cost rates; (2) the  
5 dividend yield in the quarterly DCF model; (3) Dr. Vander Weide's exclusive use of the  
6 projected growth rates of Wall Street analysts to measure expected DCF growth; (4) the  
7 base interest rate as well as the market or equity risk premium in the RP and CAPM  
8 approaches; (5) Dr. Vander Weide's unwarranted flotation cost adjustments to his equity  
9 cost rate results; and (6) an erroneous leverage adjustment based on the market value  
10 capital structures of his proxy group.

11

12 **II. CAPITAL COSTS IN TODAY'S MARKETS**

13

14 **Q. PLEASE DISCUSS CAPITAL COSTS IN U.S. MARKETS.**

15 A. Long-term capital cost rates for U.S. corporations are a function of the required  
16 returns on risk-free securities plus a risk premium. The risk-free rate of interest is the  
17 yield on long-term U.S Treasury bonds. The yields on ten-year U.S. Treasury bonds  
18 from 1953 to the present are provided on page 1 of Exhibit JRW-3. These yields  
19 peaked in the early 1980s and have generally declined since that time. In the summer  
20 of 2003, these yields hit a 60-year low at 3.33%. They subsequently increased and  
21 fluctuated between the 4.0% and 5.0% levels over the next four years in response to  
22 ebbs and flows in the economy. Ten-year Treasury yields began to decline in mid-  
23 2007 at the beginning of the current financial crisis. In 2008 Treasury yields declined  
24 to below 3.0% as a result of the expansion of the mortgage and subprime market  
25 credit crisis, the turmoil in the financial sector, the government bailout of financial

1 institutions, and the economic recession. Overall, these economic developments led  
2 investors to seek out low risk investments. These yields have declined from 2.5% to  
3 just below 2.0% during the past six months.

4 Panel B on page 1 of Exhibit JRW-3 shows the differences in yields between  
5 ten-year Treasuries and Moody's Baa rated bonds since the year 2000. This  
6 differential primarily reflects the additional risk required by bond investors for the  
7 risk associated with investing in corporate bonds. The difference also reflects, to  
8 some degree, yield curve changes over time. The Baa rating is the lowest of the  
9 investment grade bond ratings for corporate bonds. The yield differential hovered in  
10 the 2.0% to 3.0% area until 2005, declined to 1.5% until late 2007, and then increased  
11 significantly in response to the current financial crisis. This differential peaked at  
12 6.0% at the height of the financial crisis in early 2009, due to tightening in credit  
13 markets, which increased corporate bond yields, and the "flight to quality," which  
14 decreased treasury yields. The differential subsequently declined and has been in the  
15 2.5% range over the past six months.

16 As previously noted, the risk premium is the return premium required by  
17 investors to purchase riskier securities. The risk premium required by investors to buy  
18 corporate bonds is observable based on yield differentials in the markets. The equity  
19 risk premium is the return premium required to purchase stocks as opposed to bonds.  
20 The equity risk premium is not readily measurable in the markets (as are bond risk  
21 premiums) since expected stock market returns are not readily observable. As a  
22 result, equity risk premiums must be estimated using market data. There are  
23 alternative methodologies to estimating the equity risk premium, and the alternative  
24 approaches and equity risk premium results are subject to much debate. One way to  
25 estimate the equity risk premium is to compare the mean returns on bonds and stocks

1 over long historical periods. Measured in this manner, the equity risk premium has  
2 been in the 5% to 7% range. However, studies by leading academics indicate the  
3 forward-looking equity risk premium is actually in the 4.0% to 5.0% range. These  
4 lower equity risk premium results are in line with the findings of equity risk premium  
5 surveys of CFOs, academics, analysts, companies, and financial forecasters.

6

7 **Q. PLEASE DESCRIBE HOW THE FINANCIAL CRISIS HAS IMPACTED THE**  
8 **FINANCIAL MARKETS.**

9 A. United States Treasury Rates have declined to levels not seen since the 1950s. This  
10 reflects the “flight to quality” in the credit markets, as investors have sought out low  
11 risk investments, and the massive monetary stimulus provided by the Federal Reserve  
12 Board. The credit market for corporate and utility debt experienced higher rates  
13 during the financial crisis.

14 However, the long-term credit market has improved significantly. The credit  
15 crisis was associated with concerns among credit providers – mainly financial  
16 institutions – in terms of making loans and investing in bonds due to the  
17 overleveraging and perceived weakness of the economy. Panel A of page 2 of  
18 Exhibit JRW-3 provides the yields on A, BBB+, and BBB rated public utility bonds.  
19 These yields peaked in November 2008, declined by about 200 to 300 basis points  
20 (“BPs”) through the summer of 2010, and have since increased about 50 to 75 BPs.  
21 For example, the yields on “A” rated utility bonds, which peaked at over 7.50% in  
22 November of 2008, declined to 5.0% to 6.0% range in 2010. They have recently  
23 declined to the 4.5% range. Panel B of page 2 of Exhibit JRW-3 provides the yield  
24 spreads on A, BBB+, and BBB rated public utility bonds relative to Treasury bonds.  
25 These yield spreads increased dramatically in the third quarter of 2008 during the

1 peak of the financial crisis and have since decreased to pre-crisis levels. For example,  
2 the yield spread between 30-year, 'A' rated utility bonds and 30-Year Treasury  
3 bonds, increased from 1.5% to 3.5% in November of 2008. This yield spread  
4 decreased to below 1.5% as of the summer of 2009, and has since declined below this  
5 figure.

6 In sum, while the economy continues to face significant problems, the actions  
7 of the government and Federal Reserve had a large effect on the credit markets. The  
8 capital costs for utilities, as measured by the yields on 30-year utility bonds, have  
9 declined to pre-financial crisis levels.

10  
11 **III. PROXY GROUP SELECTION**

12  
13 **Q. PLEASE DESCRIBE YOUR APPROACH TO DEVELOPING A FAIR RATE**  
14 **OF RETURN RECOMMENDATION FOR GULF POWER.**

15 A. To develop a fair rate of return recommendation for Gulf Power, I evaluated the  
16 return requirements of investors on the common stock of a proxy group of publicly-  
17 held electric utility companies ("Electric Proxy Group").

18  
19 **Q. PLEASE DESCRIBE YOUR PROXY GROUP OF COMPANIES.**

20 A. My Electric Proxy Group consists of twenty-eight electric utility companies. The  
21 selection criteria include the following:

- 22 1. Listed as Electric Utility by *Value Line Investment Survey* and listed as an  
23 Electric Utility or Combination Electric & Gas company in *AUS Utilities Report*;
- 24 2. At least 50% of revenues from regulated electric operations as reported by *AUS*  
25 *Utilities Report*;

- 1           3.     An investment grade bond rating as reported by *AUS Utilities Report*;
- 2           4.     Pays a cash dividend;
- 3           5.     Not involved in an acquisition of another utility, and/or was not the target of an
- 4                 acquisition, in the past year; and
- 5           6.     Analysts' long-term EPS growth rate forecasts available from Yahoo, Reuters,
- 6                 and Zacks.

7           The Electric Proxy Group includes twenty-eight companies. Summary financial  
8           statistics for the proxy group are listed on page 1 of Exhibit JRW-4.<sup>1</sup> The median  
9           operating revenues and net plant for the Electric Proxy Group are \$4,078.0M and  
10          \$8,678.4M, respectively. The group receives 79% of revenues from regulated electric  
11          operations, has an A-/BBB+ bond rating from Standard & Poor's, a current common  
12          equity ratio of 45.4%, and an earned return on common equity of 10.3%.

13

14           **IV.     CAPITAL STRUCTURE RATIOS AND DEBT COST RATES**

15

16   **Q.     WHAT IS GULF POWER'S CURRENT CAPITAL STRUCTURE FOR**  
17   **RATEMAKING PURPOSES?**

18   A.     Gulf Power's recommended capital structure as for ratemaking purposes of December  
19          31, 2012, includes 1.70% short-term debt, 39.29% long-term debt, 4.36% preferred  
20          stock, 38.50% common equity, 1.27 % customer deposits, 15.34% deferred taxes, and  
21          0.17% investment tax credit. Gulf Power's recommended capital structure for  
22          investor sources includes 1.30% short-term debt, 47.83% long-term debt, 5.31%  
23          preferred stock, and 46.87% common equity.

24

---

<sup>1</sup> In my testimony, I present financial results using both mean and medians as measures of central tendency. However, due to outliers among means, I have used the median as a measure of central tendency.

1 **Q. WHAT CAPITAL STRUCTURE ARE YOU EMPLOYING FOR GULF**  
2 **POWER?**

3 A. I am using the Company's recommended capital structure. Page 2 of Exhibit JRW-5  
4 provides the capital structures for Gulf Power and Southern Company. The  
5 Company's recommended capital structure is in line with its recent capital structure  
6 as well as the capital structure of Southern Company. In addition, as discussed  
7 above, the current common equity ratio for the Electric Proxy Group is 45.4%.<sup>2</sup>

8

9 **Q. WHAT SENIOR CAPITAL COST RATES ARE HAVE BEEN USED BY**  
10 **GULF POWER?**

11 A. The Company uses projected short-term and long-term debt cost rates of 2.12% and  
12 5.45% and a preferred stock cost rate of 6.65%. These projections were made as of  
13 September 2010. The short-term debt cost rate is based on a projected London  
14 Interbank Offered Rate ("LIBOR") rate of 3.15% as of December 31, 2012. The  
15 current LIBOR rate is 0.25%. The long-term debt cost rate includes bond issues at  
16 6.50% in 2011, and 8.05% and 7.70% in 2012. These projected rates are based on the  
17 yields on long-term U. S. Treasury bonds plus 190 basis points. The current yield on  
18 long-term U. S. Treasury bonds 2.80%. In addition, the current yield on long-term  
19 utility bonds is below 5.0%. Finally, the preferred stock cost rate includes a new  
20 issue at 7.45%, which is based on the long-term Treasury yields that are well above  
21 current yields.

22

23 **Q. WHAT SENIOR CAPITAL COST RATES ARE YOU USING IN YOUR COST**  
24 **OF CAPITAL CALCULATION FOR GULF POWER?**

---

<sup>2</sup> OPC witness Ramas has recommended an adjustment in her testimony to Accumulated Deferred Income Taxes which has not been reflected in my recommended capital structure amounts.

1 A. As indicated above, the senior capital cost rates developed by the Company were  
2 developed in September of 2010 and are based on projected short-term and long-term  
3 interest rates that are well in excess of the interest rates in the market today.  
4 Therefore, I am using the Company's projected 2011 senior capital cost rates as  
5 provided in MFR D-3, D-4, and D-5. I have made one adjustment to the long-term  
6 debt cost rate. The Company estimated a yield of 6.50% for a projected bond issue in  
7 April of 2011. The actual yield on the bonds issued in May of this year was 5.75%.  
8 With this adjustment, the short-term, long-term, and preferred stock cost rates as  
9 projected by Gulf Power are 0.35%, 4.98%, and 6.40%. These are the senior capital  
10 cost rates I have used in developing a cost of capital for Gulf Power.

11

12 V. **THE COST OF COMMON EQUITY CAPITAL**

13

14 A. **Overview**

15 **Q. WHY MUST AN OVERALL COST OF CAPITAL OR FAIR RATE OF**  
16 **RETURN BE ESTABLISHED FOR A PUBLIC UTILITY?**

17 A. In a competitive industry, the return on a firm's common equity capital is determined  
18 through the competitive market for its goods and services. Due to the capital  
19 requirements needed to provide utility services and to the economic benefit to society  
20 from avoiding duplication of these services, some public utilities are monopolies. It  
21 is not appropriate to permit monopoly utilities to set their own prices because of the  
22 lack of competition and the essential nature of the services. Thus, regulation seeks to  
23 establish prices that are fair to consumers and, at the same time, are sufficient to meet  
24 the operating and capital costs of the utility (i.e., provide an adequate return on capital  
25 to attract investors).



1

2 **Q. PLEASE PROVIDE AN OVERVIEW OF THE COST OF CAPITAL IN THE**  
3 **CONTEXT OF THE THEORY OF THE FIRM.**

4 A. The total cost of operating a business includes the cost of capital. The cost of  
5 common equity capital is the expected return on a firm's common stock that the  
6 marginal investor would deem sufficient to compensate for risk and the time value of  
7 money. In equilibrium, the expected and required rates of return on a company's  
8 common stock are equal.

9 Normative economic models of the firm, developed under very restrictive  
10 assumptions, provide insight into the relationship between firm performance or  
11 profitability, capital costs, and the value of the firm. Under the economist's ideal  
12 model of perfect competition, where entry and exit are costless, products are  
13 undifferentiated, and there are increasing marginal costs of production, firms produce  
14 up to the point where price equals marginal cost. Over time, a long-run equilibrium is  
15 established where price equals average cost, including the firm's capital costs. In  
16 equilibrium, total revenues equal total costs, and because capital costs represent  
17 investors' required return on the firm's capital, actual returns equal required returns,  
18 and the market value must equal the book value of the firm's securities.

19 In the real world, firms can achieve competitive advantage due to product  
20 market imperfections. Most notably, companies can gain competitive advantage  
21 through product differentiation (adding real or perceived value to products) and by  
22 achieving economies of scale (decreasing marginal costs of production). Competitive  
23 advantage allows firms to price products above average cost and thereby earn  
24 accounting profits greater than those required to cover capital costs. When these  
25 profits are in excess of that required by investors, or when a firm earns a return on

1 equity in excess of its cost of equity, investors respond by valuing the firm's equity in  
2 excess of its book value.

3 James M. McTaggart, founder of the international management consulting  
4 firm Marakon Associates, described this essential relationship between the return on  
5 equity, the cost of equity, and the market-to-book ratio in the following manner:<sup>3</sup>

6 Fundamentally, the value of a company is determined  
7 by the cash flow it generates over time for its owners,  
8 and the minimum acceptable rate of return required by  
9 capital investors. This "cost of equity capital" is used  
10 to discount the expected equity cash flow, converting it  
11 to a present value. The cash flow is, in turn, produced  
12 by the interaction of a company's return on equity and  
13 the annual rate of equity growth. High return on equity  
14 (ROE) companies in low-growth markets, such as  
15 Kellogg, are prodigious generators of cash flow, while  
16 low ROE companies in high-growth markets, such as  
17 Texas Instruments, barely generate enough cash flow to  
18 finance growth.

19 A company's ROE over time, relative to its cost of  
20 equity, also determines whether it is worth more or less  
21 than its book value. If its ROE is consistently greater  
22 than the cost of equity capital (the investor's minimum  
23 acceptable return), the business is economically  
24 profitable and its market value will exceed book value.  
25 If, however, the business earns an ROE consistently  
26 less than its cost of equity, it is economically  
27 unprofitable and its market value will be less than book  
28 value.

29 As such, the relationship between a firm's return on equity, cost of equity, and  
30 market-to-book ratio is relatively straightforward. A firm that earns a return on  
31 equity above its cost of equity will see its common stock sell at a price above its book  
32 value. Conversely, a firm that earns a return on equity below its cost of equity will  
33 see its common stock sell at a price below its book value.

---

<sup>3</sup> James M. McTaggart, "The Ultimate Poison Pill: Closing the Value Gap," *Commentary* (Spring 1988), p. 2.

1 **Q. PLEASE PROVIDE ADDITIONAL INSIGHTS INTO THE RELATIONSHIP**  
 2 **BETWEEN RETURN ON EQUITY AND MARKET-TO-BOOK RATIOS.**

3 A. This relationship is discussed in a classic Harvard Business School case study entitled  
 4 “A Note on Value Drivers.” On page 2 of that case study, the author describes the  
 5 relationship very succinctly:<sup>4</sup>

6 For a given industry, more profitable firms – those able to generate  
 7 higher returns per dollar of equity – should have higher market-to-  
 8 book ratios. Conversely, firms which are unable to generate  
 9 returns in excess of their cost of equity should sell for less than  
 10 book value.

<i>Profitability</i>	<i>Value</i>
<i>If ROE &gt; K</i>	<i>then Market/Book &gt; 1</i>
<i>If ROE = K</i>	<i>then Market/Book = 1</i>
<i>If ROE &lt; K</i>	<i>then Market/Book &lt; 1</i>

16 To assess the relationship by industry, as suggested above, I performed a  
 17 regression study between estimated return on equity (“ROE”) and market-to-book  
 18 ratios using natural gas distribution, electric utility and water utility companies. I  
 19 used all companies in these three industries that are covered by *Value Line* and have  
 20 estimated ROE and market-to-book ratio data. The results are presented in Panels A-  
 21 C of Exhibit JRW-6. The average R-squares for the electric, gas, and water  
 22 companies are 0.65, 0.60, and 0.92, respectively.<sup>5</sup> This demonstrates the strong  
 23 positive relationship between ROEs and market-to-book ratios for public utilities.

24

25 **Q. WHAT ECONOMIC FACTORS HAVE AFFECTED THE COST OF EQUITY**  
 26 **CAPITAL FOR PUBLIC UTILITIES?**

---

<sup>4</sup> Benjamin Esty, “A Note on Value Drivers,” Harvard Business School, Case No. 9-297-082, April 7, 1997.

<sup>5</sup> R-square measures the percent of variation in one variable (e.g., market-to-book ratios) explained by another variable (e.g., expected ROE). R-squares vary between zero and 1.0, with values closer to 1.0 indicating a higher relationship between two variables.

1 A. Exhibit JRW-7 provides indicators of public utility equity cost rates over the past  
2 decade. Page 1 shows the yields on long-term 'A' rated public utility bonds. These  
3 yields peaked in the early 2000s at over 8.0%, declined to about 5.0% in 2005, and  
4 rose to 6.0% in 2006 and 2007. They stayed in that 6.0% range until the third quarter  
5 of 2008 when they spiked to almost 7.5% during the financial crisis. They have since  
6 retreated and are now below 5.0%.

7 Page 2 of Exhibit JRW-7 provides the dividend yields for the proxy group.  
8 The dividend yields for the Electric Proxy Group generally declined slightly over the  
9 decade until 2007. They increased in 2008 and 2009 in response to the financial  
10 crisis, but declined in 2010 to about 4.75%.

11 Average earned returns on common equity and market-to-book ratios for the  
12 group are on page 3 of Exhibit JRW-7. The average earned returns on common equity  
13 for the Electric Proxy Group were in the 9.0%-12.0% range over the past decade, and  
14 ended 2010 at 9.75%. The average market-to-book ratio for the group has been in the  
15 1.20X to 1.80X during the decade. The average declined to about 1.20X in 2009, but  
16 increased to 1.30X in 2010.

17

18 **Q. WHAT FACTORS DETERMINE INVESTORS' EXPECTED OR REQUIRED**  
19 **RATE OF RETURN ON EQUITY?**

20 A. The expected or required rate of return on common stock is a function of market-wide  
21 as well as company-specific factors. The most important market factor is the time  
22 value of money as indicated by the level of interest rates in the economy. Common  
23 stock investor requirements generally increase and decrease with like changes in  
24 interest rates. The perceived risk of a firm is the predominant factor that influences  
25 investor return requirements on a company-specific basis. A firm's investment risk is

1 often separated into business and financial risk. Business risk encompasses all factors  
2 that affect a firm's operating revenues and expenses. Financial risk results from  
3 incurring fixed obligations in the form of debt in financing its assets.

4  
5 **Q. HOW DOES THE INVESTMENT RISK OF UTILITIES COMPARE WITH**  
6 **THAT OF OTHER INDUSTRIES?**

7 A. Due to the essential nature of their service as well as their regulated status, public  
8 utilities are exposed to a lesser degree of business risk than other, non-regulated  
9 businesses. The relatively low level of business risk allows public utilities to meet  
10 much of their capital requirements through borrowing in the financial markets,  
11 thereby incurring greater than average financial risk. Nonetheless, the overall  
12 investment risk of public utilities is below most other industries.

13 Exhibit JRW-8 provides an assessment of investment risk for 100 industries as  
14 measured by beta, which according to modern capital market theory, is the only  
15 relevant measure of investment risk. These betas come from the *Value Line*  
16 *Investment Survey* and are compiled annually by Aswath Damodaran of New York  
17 University.<sup>6</sup> The study shows that the investment risk of utilities is very low. The  
18 average beta for electric, water, and gas utility companies are 0.75, 0.70, and 0.65,  
19 respectively. These are well below the *Value Line* average of 1.15. As such, the cost  
20 of equity for utilities is among the lowest of all industries in the U.S.

21  
22 **Q. HOW CAN THE EXPECTED OR REQUIRED RATE OF RETURN ON**  
23 **COMMON EQUITY CAPITAL BE DETERMINED?**

---

<sup>6</sup> Available at <http://www.stern.nyu.edu/~adamodar>.

1 A. The costs of debt and preferred stock are normally based on historical or book values  
2 and can be determined with a great degree of accuracy. The cost of common equity  
3 capital, however, cannot be determined precisely and must instead be estimated from  
4 market data and informed judgment. This return to the stockholder should be  
5 commensurate with returns on investments in other enterprises having comparable  
6 risks.

7 According to valuation principles, the present value of an asset equals the  
8 discounted value of its expected future cash flows. Investors discount these expected  
9 cash flows at their required rate of return that, as noted above, reflects the time value  
10 of money and the perceived riskiness of the expected future cash flows. As such, the  
11 cost of common equity is the rate at which investors discount expected cash flows  
12 associated with common stock ownership.

13 Models have been developed to ascertain the cost of common equity capital  
14 for a firm. Each model, however, has been developed using restrictive economic  
15 assumptions. Consequently, judgment is required in selecting appropriate financial  
16 valuation models to estimate a firm's cost of common equity capital, in determining  
17 the data inputs for these models, and in interpreting the models' results. All of these  
18 decisions must take into consideration the firm involved as well as current conditions  
19 in the economy and the financial markets.

20

21 **Q. HOW DO YOU PLAN TO ESTIMATE THE COST OF EQUITY CAPITAL**  
22 **FOR THE COMPANY?**

23 A. I rely primarily on the discounted cash flow ("DCF") model to estimate the cost of  
24 equity capital. Given the investment valuation process and the relative stability of the  
25 utility business, I believe that the DCF model provides the best measure of equity cost

1 rates for public utilities. It is my experience that this Commission has traditionally  
 2 relied on the DCF method. I have also performed a capital asset pricing model  
 3 (“CAPM”) study, but I give these results less weight because I believe that risk  
 4 premium studies, of which the CAPM is one form, provide a less reliable indication  
 5 of equity cost rates for public utilities.

6  
 7 **B. DCF Analysis**

8 **Q. DESCRIBE THE THEORY BEHIND THE TRADITIONAL DCF MODEL.**

9 A. According to the DCF model, the current stock price is equal to the discounted value  
 10 of all future dividends that investors expect to receive from investment in the firm.  
 11 As such, stockholders’ returns ultimately result from current as well as future  
 12 dividends. As owners of a corporation, common stockholders are entitled to a *pro*  
 13 *rata* share of the firm’s earnings. The DCF model presumes that earnings that are not  
 14 paid out in the form of dividends are reinvested in the firm so as to provide for future  
 15 growth in earnings and dividends. The rate at which investors discount future  
 16 dividends, which reflects the timing and riskiness of the expected cash flows, is  
 17 interpreted as the market’s expected or required return on the common stock.  
 18 Therefore, this discount rate represents the cost of common equity. Algebraically, the  
 19 DCF model can be expressed as:

$$20 \quad P = \frac{D_1}{(1+k)^1} + \frac{D_2}{(1+k)^2} + \dots + \frac{D_n}{(1+k)^n}$$

21  
 22  
 23  
 24 where P is the current stock price,  $D_n$  is the dividend in year n, and k is the  
 25 cost of common equity.

1 **Q. IS THE DCF MODEL CONSISTENT WITH VALUATION TECHNIQUES**  
2 **EMPLOYED BY INVESTMENT FIRMS?**

3 A. Yes. Virtually all investment firms use some form of the DCF model as a valuation  
4 technique. One common application for investment firms is called the three-stage  
5 DCF or dividend discount model (“DDM”). The stages in a three-stage DCF model  
6 are presented in Exhibit JRW-9. This model presumes that a company’s dividend  
7 payout progresses initially through a growth stage, then proceeds through a transition  
8 stage, and finally assumes a steady-state stage. The dividend-payment stage of a firm  
9 depends on the profitability of its internal investments, which, in turn, is largely a  
10 function of the life cycle of the product or service.

11 1. Growth stage: Characterized by rapidly expanding sales, high profit margins,  
12 and abnormally high growth in earnings per share. Because of highly profitable  
13 expected investment opportunities, the payout ratio is low. Competitors are attracted  
14 by the unusually high earnings, leading to a decline in the growth rate.

15 2. Transition stage: In later years increased competition reduces profit margins  
16 and earnings growth slows. With fewer new investment opportunities, the company  
17 begins to pay out a larger percentage of earnings.

18 3. Maturity (steady-state) stage: Eventually the company reaches a position  
19 where its new investment opportunities offer, on average, only slightly attractive  
20 ROEs. At that time its earnings growth rate, payout ratio, and ROE stabilize for the  
21 remainder of its life. The constant-growth DCF model is appropriate when a firm is in  
22 the maturity stage of the life cycle.

23 In using this model to estimate a firm’s cost of equity capital, dividends are projected  
24 into the future using the different growth rates in the alternative stages, and then the



1 equity cost rate is the discount rate that equates the present value of the future  
 2 dividends to the current stock price.

3

4 **Q. HOW DO YOU ESTIMATE STOCKHOLDERS' EXPECTED OR REQUIRED**  
 5 **RATE OF RETURN USING THE DCF MODEL?**

6 A. Under certain assumptions, including a constant and infinite expected growth rate, and  
 7 constant dividend/earnings and price/earnings ratios, the DCF model can be  
 8 simplified to the following:

$$9 \quad P = \frac{D_1}{k - g}$$

10  
 11  
 12  
 13 where  $D_1$  represents the expected dividend over the coming year and  $g$  is the expected  
 14 growth rate of dividends. This is known as the constant-growth version of the DCF  
 15 model. To use the constant-growth DCF model to estimate a firm's cost of equity,  
 16 one solves for  $k$  in the above expression to obtain the following:

$$17 \quad k = \frac{D_1}{P} + g$$

18  
 19  
 20  
 21 **Q. IN YOUR OPINION, IS THE CONSTANT-GROWTH DCF MODEL**  
 22 **APPROPRIATE FOR PUBLIC UTILITIES?**

23 A. Yes. The economics of the public utility business indicate that the industry is in the  
 24 steady-state or constant-growth stage of a three-stage DCF. The economics include  
 25 the relative stability of the utility business, the maturity of the demand for public  
 26 utility services, and the regulated status of public utilities (especially the fact that their  
 27 returns on investment are effectively set through the ratemaking process). The DCF  
 28 valuation procedure for companies in this stage is the constant-growth DCF. In the

1 constant-growth version of the DCF model, the current dividend payment and stock  
2 price are directly observable. However, the primary problem and controversy in  
3 applying the DCF model to estimate equity cost rates entails estimating investors'  
4 expected dividend growth rate.

5

6 **Q. WHAT FACTORS SHOULD ONE CONSIDER WHEN APPLYING THE DCF**  
7 **METHODOLOGY?**

8 A. One should be sensitive to several factors when using the DCF model to estimate a  
9 firm's cost of equity capital. In general, one must recognize the assumptions under  
10 which the DCF model was developed in estimating its components (the dividend  
11 yield and expected growth rate). The dividend yield can be measured precisely at any  
12 point in time, but tends to vary somewhat over time. Estimation of expected growth  
13 is considerably more difficult. One must consider recent firm performance, in  
14 conjunction with current economic developments and other information available to  
15 investors, to accurately estimate investors' expectations.

16

17 **Q. PLEASE DISCUSS EXHIBIT JRW-10.**

18 A. My DCF analysis is provided in Exhibit JRW-10. The DCF summary is on page 1 of  
19 this Exhibit, and the supporting data and analysis for the dividend yield and expected  
20 growth rate are provided on the following pages of the Exhibit.

21

22 **Q. WHAT DIVIDEND YIELDS ARE YOU EMPLOYING IN YOUR DCF**  
23 **ANALYSIS FOR THE PROXY GROUP?**

24 A. The dividend yields on the common stock for the companies in the proxy group are  
25 provided on page 2 of Exhibit JRW-10 for the six-month period ending October 2011.

1 For the DCF dividend yields for the Group, I use the average of the six month and  
 2 October 2011 dividend yields. The table below shows these dividend yields.

Proxy Group	October 2011 Dividend Yield	6-Month Average Dividend Yield	DCF Dividend Yield
Electric Proxy Group	4.4%	4.5%	4.45%

3 **Q. PLEASE DISCUSS THE APPROPRIATE ADJUSTMENT TO THE SPOT**  
 4 **DIVIDEND YIELD.**

5 A. According to the traditional DCF model, the dividend yield term relates to the  
 6 dividend yield over the coming period. As indicated by Professor Myron Gordon,  
 7 who is commonly associated with the development of the DCF model for popular use,  
 8 this is obtained by: (1) multiplying the expected dividend over the coming quarter by  
 9 4 and (2) dividing this dividend by the current stock price to determine the  
 10 appropriate dividend yield for a firm, that pays dividends on a quarterly basis.<sup>7</sup>

11 In applying the DCF model, some analysts adjust the current dividend for growth  
 12 over the coming year as opposed to the coming quarter. This can be complicated  
 13 because firms tend to announce changes in dividends at different times during the  
 14 year. As such, the dividend yield computed based on presumed growth over the  
 15 coming quarter as opposed to the coming year can be quite different. Consequently,  
 16 it is common for analysts to adjust the dividend yield by some fraction of the long-  
 17 term expected growth rate.

18  
 19 **Q. GIVEN THIS DISCUSSION, WHAT ADJUSTMENT FACTOR WILL YOU**  
 20 **USE FOR YOUR DIVIDEND YIELD?**

---

<sup>7</sup> *Petition for Modification of Prescribed Rate of Return*, Federal Communications Commission, Docket No. 79-05, Direct Testimony of Myron J. Gordon and Lawrence I. Gould at 62 (April 1980).

1 A. I will adjust the dividend yield by one-half (1/2) the expected growth, so as to reflect  
2 growth over the coming year.  
3

4 **Q. PLEASE DISCUSS THE GROWTH RATE COMPONENT OF THE DCF**  
5 **MODEL.**

6 A. There is much debate as to the proper methodology to employ in estimating the growth  
7 component of the DCF model. By definition, this component is investors'  
8 expectation of the long-term dividend growth rate. Presumably, investors use some  
9 combination of historical and/or projected growth rates for earnings and dividends per  
10 share and for internal or book value growth to assess long-term potential.

11 **Q. WHAT GROWTH DATA HAVE YOU REVIEWED FOR THE PROXY**  
12 **GROUP?**

13 A. I have analyzed a number of measures of growth for companies in the Electric Proxy  
14 Group. I reviewed *Value Line's* historical and projected growth rate estimates for  
15 earnings per share ("EPS"), dividends per share ("DPS"), and book value per share  
16 ("BVPS"). In addition, I utilized the average EPS growth rate forecasts of Wall  
17 Street analysts as published by Yahoo, Reuters and Zacks. These services solicit  
18 five-year earnings growth rate projections from securities analysts and compile and  
19 publish the means and medians of these forecasts. Finally, I also assessed prospective  
20 growth as measured by prospective earnings retention rates and earned returns on  
21 common equity.  
22

23 **Q. PLEASE DISCUSS HISTORICAL GROWTH IN EARNINGS AND**  
24 **DIVIDENDS AS WELL AS INTERNAL GROWTH.**

1 A. Historical growth rates for EPS, DPS, and BVPS are readily available to virtually all  
2 investors and are presumably an important ingredient in forming expectations  
3 concerning future growth. However, one must use historical growth numbers as  
4 measures of investors' expectations with caution. In some cases, past growth may not  
5 reflect future growth potential. Also, employing a single growth rate number (for  
6 example, for five or ten years), is unlikely to accurately measure investors'  
7 expectations due to the sensitivity of a single growth rate figure to fluctuations in  
8 individual firm performance as well as overall economic fluctuations (i.e., business  
9 cycles). However, one must appraise the context in which the growth rate is being  
10 employed. According to the conventional DCF model, the expected return on a  
11 security is equal to the sum of the dividend yield and the expected long-term growth  
12 in dividends. Therefore, to best estimate the cost of common equity capital using the  
13 conventional DCF model, one must look to long-term growth rate expectations.

14 Internally generated growth is a function of the percentage of earnings  
15 retained within the firm (the earnings retention rate) and the rate of return earned on  
16 those earnings (the return on equity). The internal growth rate is computed as the  
17 retention rate times the return on equity. Internal growth is significant in determining  
18 long-run earnings and therefore, dividends. Investors recognize the importance of  
19 internally generated growth and pay premiums for stocks of companies that retain  
20 earnings and earn high returns on internal investments.

21

22 **Q. ARE YOU RELYING EXCLUSIVELY ON THE EPS FORECASTS OF WALL**  
23 **STREET ANALYSTS IN ARRIVING AT A DCF GROWTH RATE FOR THE**  
24 **PROXY GROUP?**

25 A. No. There are several issues with using the EPS growth rate forecasts of Wall Street

1 analysts as DCF growth rates. First, the appropriate growth rate in the DCF model is  
2 the dividend growth rate, not the earnings growth rate. Nonetheless, over the very  
3 long term, dividend and earnings will have to grow at a similar growth rate.  
4 Therefore, consideration must be given to other indicators of growth, including  
5 prospective dividend growth, internal growth, as well as projected earnings growth.  
6 Second, and most significantly, it is well known that the long-term EPS growth rate  
7 forecasts of Wall Street securities analysts are overly optimistic and upwardly biased.  
8 This has been demonstrated in a number of academic studies over the years. Hence,  
9 using these growth rates as a DCF growth rate will provide an overstated equity cost  
10 rate. This issue is addressed in later in my testimony.

11  
12 **Q. IS IT YOUR OPINION THAT STOCK PRICES REFLECT THE UPWARD BIAS**  
13 **IN THE EPS GROWTH RATE FORECASTS?**

14 A. Yes, I do believe that investors are well aware of the bias in analysts' EPS growth rate  
15 forecasts, and therefore, stock prices reflect the upward bias. In other words,  
16 investors compensate for the upward bias in analysts' EPS growth rate forecasts by  
17 paying a lower price for the stock.

18  
19 **Q. HOW DOES THAT AFFECT THE USE OF THESE FORECASTS IN A DCF**  
20 **EQUITY COST RATE STUDY?**

21 A. According to the DCF model, the equity cost rate is a function of the dividend yield and  
22 expected growth rate. Since stock prices reflect the bias, it would affect the dividend  
23 yield. But, in the application of the DCF model, the DCF growth rate needs to be  
24 adjusted downward from the projected EPS growth rate to reflect the upward bias.

1 **Q. PLEASE DISCUSS THE SERVICES THAT PROVIDE ANALYSTS' EPS**  
2 **FORECASTS.**

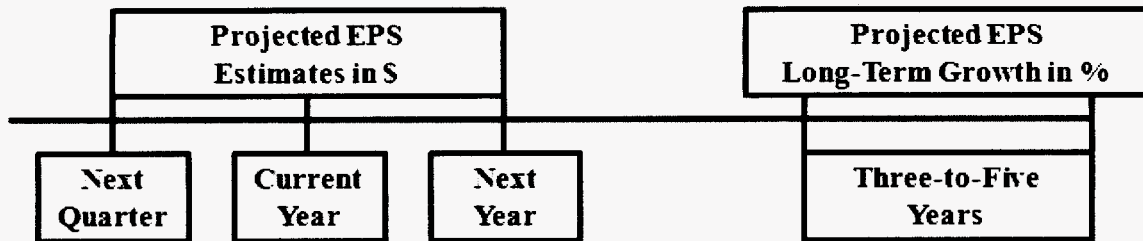
3 A. Analysts' EPS forecasts for companies are collected and published by a number of  
4 different investment information services, including Institutional Brokers Estimate  
5 System ("I/B/E/S"), Bloomberg, FactSet, Zacks, First Call and Reuters, among others.  
6 These services solicit and publish the EPS forecasts of analysts of investment and  
7 financial service firms and publish the average EPS estimates for future quarterly and  
8 annual time periods as well as the average long-term EPS growth rate forecasts.

9

10 **Q. PLEASE PROVIDE AN EXAMPLE OF THESE EPS FORECASTS.**

11 A. The following example provides the EPS forecasts compiled by Reuters for ALLETE  
12 Resources. The EPS estimates are in dollars and cents per share, and the services report  
13 the high, low and mean of the estimates collected for analysts. The long-term projected  
14 EPS growth rate is expressed in percentage terms. As shown in the figure below, the  
15 projected EPS near-term estimates are usually provided for the next quarter, the current  
16 fiscal year, and the next fiscal year. The long-term projected EPS growth rate is for a  
17 three-to-five year time period.

18



Consensus Earnings Estimates  
 ALLETE, Inc  
[www.reuters.com](http://www.reuters.com)  
 August 5, 2011

	# of Estimates	Mean	High	Low
<b>Earnings (per share)</b>				
Quarter Ending Sep-11	4	0.54	0.57	0.51
Quarter Ending Dec-11	4	0.60	0.65	0.55
Year Ending Dec-11	4	2.50	2.60	2.45
Year Ending Dec-12	4	2.62	2.65	2.60
LT Growth Rate (%)	4	5.75	8.00	5.00

These figures can be interpreted as follows. The top line shows that four analysts provided EPS estimates for the quarter ending September 2011. The mean, high and low estimates are \$0.54, 0.57, and \$0.51, respectively. The second line shows the quarterly EPS estimates for the quarter ending December 2011. Lines three and four show the annual EPS estimates for the fiscal years ending December 2011 and 2012. The quarterly and annual EPS forecasts in lines 1-4 are expressed in dollars and cents. The long-term growth rate is expressed as a percent. For ALLETE, four analysts have provided long-term EPS growth rate forecasts, with mean, high and low growth rates of 5.75%, 8.00%, and 5.00%.

**Q. WHICH OF THESE EPS FORECASTS IS USED IN DEVELOPING A DCF GROWTH RATE?**



1 A. The DCF growth rate is the long-term projected growth rate in EPS, DPS, and BVPS.  
2 Therefore, in developing an equity cost rate using the DCF model, the projected long-  
3 term growth rate is the projection used in the DCF model.  
4

5 **Q. PLEASE DISCUSS THE ISSUES IN USING THE EPS FORECASTS OF WALL  
6 STREET ANALYSTS IN ARRIVING AT A DCF GROWTH RATE?**

7 A. There are several issues with using the EPS growth rate forecasts of Wall Street  
8 analysts as DCF growth rates. First, the appropriate growth rate in the DCF model is  
9 the dividend growth rate, not the earnings growth rate. Nonetheless, over the very  
10 long-term, dividend and earnings grow at a similar growth rate. Second, and most  
11 significantly, it is well-known that the long-term EPS growth rate forecasts of Wall  
12 Street securities analysts are overly optimistic and upwardly biased. This has been  
13 demonstrated in a number of academic studies over the years. Hence, using these  
14 growth rates as a DCF growth rate will provide an overstated equity cost rate. This  
15 issue is discussed at length later in my testimony.  
16

17 **Q. PLEASE DISCUSS THE DIFFERENT SOURCES OF ANALYSTS' LONG-  
18 TERM EPS GROWTH RATE FORECASTS**

19 A. Thompson Reuters, based in New York, is a major provider of investment information  
20 and publishes analysts' EPS forecasts under different names, including I/B/E/S, First  
21 Call, and Reuters. Bloomberg, FactSet, and Zacks are independently owned and publish  
22 their own set of analysts' EPS forecasts for companies. As far as I am aware, none of  
23 these services reveal: (1) the analysts who are solicited for forecasts; or (2) the analysts  
24 who actually provide the EPS forecasts that are used in the compilations published by  
25 the services. I/B/E/S, Bloomberg, FactSet, and First Call are fee-based services. These

1 services usually provide detailed reports and other data in addition to analysts' EPS  
2 forecasts. Thompson Reuters and Zacks do provide limited EPS forecasts data free-of-  
3 charge on the internet. Yahoo finance (<http://finance.yahoo.com>) lists Thompson  
4 Reuters as the source of its summary EPS forecasts. The Reuters website  
5 ([www.reuters.com](http://www.reuters.com)) also publishes EPS forecasts from Thompson Reuters, but with  
6 more detail. Zacks ([www.zacks.com](http://www.zacks.com)) publishes its summary forecasts on its website.  
7 Zacks estimates are also available on other websites, such as msn.money  
8 (<http://money.msn.com>). As such, Thompson Reuters and Zacks are the ultimate  
9 sources of EPS forecasts that are provided free-of-charge at different sites on the  
10 internet.

11  
12 **Q. WHAT ARE YOUR OBSERVATIONS ON THE ALTERNATIVE SOURCES**  
13 **OF ANALYSTS' LONG-TERM EPS GROWTH RATE FORECASTS?**

14 A. It is my experience that there is not one single figure that represents analysts'  
15 projected EPS growth rate for a company. Page 5 of Exhibit JRW-10 provides  
16 analysts' projected EPS growth rates for the proxy group companies as published by  
17 Reuters, Yahoo, and Zacks. These are the primary providers of analysts' EPS growth  
18 rate forecasts available free-of-charge on the internet. As previously indicated,  
19 I/B/E/S is not a free service. These data were collected on October 3, 2011. Of the  
20 twenty-eight companies, only three (Avista, IDACORP, and MGE) have the same  
21 growth rate forecast from the three services. In addition, only six of the companies  
22 have the same growth rate forecasts from Yahoo and Reuters, both of which have  
23 Thompson Reuters as the source of projected long-term earnings growth rate  
24 forecasts.

25

1 **Q. BASED ON THIS DISCUSSION, WHAT MEASURE OF ANALYSTS' LONG-**  
2 **TERM EPS GROWTH RATE FORECASTS ARE YOU USING?**

3 A. I am using the average of three services published on the internet – Yahoo, Zacks,  
4 and Reuters – as the measure of analysts' projected long-term EPS growth rate  
5 forecast.

6

7 **Q. PLEASE DISCUSS THE HISTORICAL GROWTH OF THE COMPANIES IN**  
8 **THE GROUP AS PROVIDED IN THE *VALUE LINE INVESTMENT***  
9 ***SURVEY*.**

10 A. Historic growth rates for the companies in the Electric Proxy Group, as published in  
11 the *Value Line Investment Survey*, are provided on page 3 of Exhibit JRW-10. Due to  
12 the presence of outliers, I once again use the medians in the analysis. The historical  
13 growth measures in EPS, DPS, and BVPS for the Electric Proxy Group, as measured  
14 by the medians, range from -0.5% to 7.0%, with an average of 3.4%.

15

16 **Q. PLEASE SUMMARIZE *VALUE LINE'S* PROJECTED GROWTH RATES**  
17 **FOR THE COMPANIES IN THE PROXY GROUP.**

18 A. *Value Line's* projections of EPS, DPS and BVPS growth for the companies in the  
19 Electric Proxy Group are shown on page 4 of Exhibit JRW-10. As above, due to the  
20 presence of outliers, both the mean and medians are used in the analysis. For the  
21 Electric Proxy Group, the central tendency measure ranges from 3.5% to 5.5%, with  
22 an average of 4.4%.

23

24 Also provided on page 4 of Exhibit JRW-10 are the sustainable or prospective  
25 internal growth rates for the proxy group as measured by *Value Line's* average  
projected retention rate and return on shareholders' equity. As noted above,

1 sustainable or internal growth is significant and a primary driver of long-run earnings  
2 growth. For the Electric Proxy Group, the average prospective sustainable growth rate  
3 is 4.2%.

4  
5 **Q. PLEASE ASSESS GROWTH FOR THE PROXY GROUP AS MEASURED BY**  
6 **ANALYSTS' FORECASTS OF EXPECTED 5-YEAR EPS GROWTH.**

7 A. Yahoo, Zacks, and Reuters publish Wall Street analysts' five-year EPS growth rate  
8 forecasts for the companies in the proxy group. These forecasts are provided for the  
9 companies in the Electric Proxy Group on page 5 of Exhibit JRW-10. The medians of  
10 the analysts' projected EPS growth rates for the Electric Group is 5.1%.<sup>8</sup>

11  
12 **Q. PLEASE SUMMARIZE YOUR ANALYSIS OF THE HISTORICAL AND**  
13 **PROSPECTIVE GROWTH OF THE PROXY GROUP.**

14 A. The summary DCF growth rate indicators for the Electric Proxy Group are shown on  
15 page 6 of Exhibit JRW-10. The average of the growth rate indicators for the Electric  
16 Proxy Group is 4.3%. The average *Value Line's* projected growth rates in EPS, DPS,  
17 and BVPS is 4.4% and *Value Line's* sustainable growth rate is 4.2 %. The average of  
18 analysts' projected EPS growth rates is 5.1%. The average of the projected and  
19 prospective growth rate indicators for the Group is 4.6%. Given these results, and  
20 giving more weight to the projections, an expected DCF growth rate in the 4.5% to  
21 5.0% is reasonable. I will use the midpoint of this range, 4.75%, as my DCF growth  
22 rate for the Electric Proxy Group.

---

<sup>8</sup> Since there appears to be overlap in analyst coverage between the three services, I have averaged the expected five-year EPS growth rates from the three services for each company to arrive at an expected EPS growth rate by company.

1 Q. **BASED ON THE ABOVE ANALYSIS, WHAT IS YOUR INDICATED**  
 2 **COMMON EQUITY COST RATE FOR THE DCF MODEL?**

3 A. My DCF-derived equity cost rates for the group is:

4  
 5  
 6 DCF Equity Cost Rate (k) =  $\frac{D}{P}$  + g  
 7  
 8

9 **DCF Equity Cost Rates**

	<b>Dividend Yield</b>	<b>1 + ½ Growth Adjustment</b>	<b>DCF Growth Rate</b>	<b>Equity Cost Rate</b>
<b>Electric Proxy Group</b>	<b>4.45%</b>	<b>1.02375</b>	<b>4.75%</b>	<b>9.3%</b>

10

11 These results are summarized on page 1 of Exhibit JRW-10.

12

13 **C. CAPM Results**

14 **Q. PLEASE DISCUSS THE CAPM.**

15 A. The CAPM is a risk premium approach to gauging a firm's cost of equity capital.  
 16 According to the risk premium approach, the cost of equity is the sum of the interest  
 17 rate on a risk-free bond ( $R_f$ ) and a risk premium (RP), and is illustrated as follows:

18  $k = R_f + RP$   
 19

20 The yield on long-term U.S. Treasury securities is normally used as  $R_f$ . Risk  
 21 premiums are measured in different ways. The CAPM is a theory of the risk and  
 22 expected returns of common stocks. In the CAPM, two types of risk are associated  
 23 with a stock: (1) firm-specific risk or unsystematic risk and (2) market or systematic  
 24 risk, which is measured by a firm's beta. The only risk that investors receive a return  
 25 for bearing is systematic risk.

1 According to the CAPM, the expected return on a company's stock, which is  
2 also the equity cost rate ( $K$ ), is equal to:

$$3 \quad K = (R_f) + \beta * [E(R_m) - (R_f)]$$

4 Where:

- 5 •  $K$  represents the estimated rate of return on the stock;
- 6 •  $E(R_m)$  represents the expected return on the overall stock market. Frequently,  
7 the "market" refers to the S&P 500;
- 8 •  $(R_f)$  represents the risk-free rate of interest;
- 9 •  $[E(R_m) - (R_f)]$  represents the expected equity or market risk premium—the  
10 excess return that an investor expects to receive above the risk-free rate for  
11 investing in risky stocks; and
- 12 •  $Beta$ —( $\beta$ ) is a measure of the systematic risk of an asset.

13  
14  
15 To estimate the required return or cost of equity using the CAPM requires  
16 three inputs: (1) the risk-free rate of interest ( $R_f$ ), (2) the beta ( $\beta$ ), and (3) the expected  
17 equity or market risk premium  $[E(R_m) - (R_f)]$ .  $R_f$  is the easiest of the inputs to  
18 measure – it is the yield on long-term U.S. Treasury bonds.  $\beta$ , the measure of  
19 systematic risk, is a little more difficult to measure because there are different  
20 opinions about what adjustments, if any, should be made to historical betas due to  
21 their tendency to regress to 1.0 over time. And finally, an even more difficult input to  
22 measure is the expected equity or market risk premium ( $E(R_m) - (R_f)$ ). I discuss each  
23 of these inputs below.

24  
25 **Q. PLEASE DISCUSS EXHIBIT JRW-11.**

26 A. Exhibit JRW-11 provides the summary results for my CAPM study. Page 1 shows  
27 the summary of the results, and pages 2-11 contain the supporting data.

1 **Q. PLEASE DISCUSS THE RISK-FREE INTEREST RATE.**

2 A. The yield on long-term U.S. Treasury bonds has usually been viewed as the risk-free  
3 rate of interest in the CAPM. The yield on long-term U.S. Treasury bonds, in turn,  
4 has been considered to be the yield on U.S. Treasury bonds with 30-year maturities.

5

6 **Q. WHAT RISK-FREE INTEREST RATE ARE YOU USING IN YOUR CAPM?**

7 A. The yields on 30-year Treasury bonds have varied considerably over the six months.  
8 These yields have been in the 3.0% to 4.5% range over the last six months. As of the  
9 beginning this month, the rate on 30-year U.S. Treasury Bonds was about 3.0%.  
10 Given the recent range of yields, and recognizing the recent decline in Treasury  
11 yields, I use 4.0%, as the risk-free rate, or  $R_f$ , in my CAPM.

12

13 **Q. WHAT BETAS ARE YOU EMPLOYING IN YOUR CAPM?**

14 A. Beta ( $\beta$ ) is a measure of the systematic risk of a stock. The market, usually taken to  
15 be the S&P 500, has a beta of 1.0. The beta of a stock with the same price movement  
16 as the market also has a beta of 1.0. A stock whose price movement is greater than  
17 that of the market, such as a technology stock, is riskier than the market and has a  
18 beta greater than 1.0. A stock with below average price movement, such as that of a  
19 regulated public utility, is less risky than the market and has a beta less than 1.0.  
20 Estimating a stock's beta involves running a linear regression of a stock's return on  
21 the market return.

22 As shown on page 3 of Exhibit JRW-11, the slope of the regression line is the  
23 stock's beta. A steeper line indicates the stock is more sensitive to the return on the  
24 overall market. This means that the stock has a higher beta and greater than average  
25 market risk. A less steep line indicates a lower beta and less market risk.

1 Numerous online investment information services, such as Yahoo and  
2 Reuters, provide estimates of stock betas. Usually these services report different  
3 betas for the same stock. The differences are usually due to: (1) the time period over  
4 which the beta is measured and (2) any adjustments that are made to reflect the fact  
5 that betas tend to regress to 1.0 over time. In estimating an equity cost rate for the  
6 Electric Proxy Group, I use the betas for the companies as provided in the *Value Line*  
7 *Investment Survey*. As shown on page 3 of Exhibit JRW-11, the median beta for the  
8 companies in the Electric Proxy Group is 0.70.

9

10 **Q. PLEASE DISCUSS THE ALTERNATIVE VIEWS REGARDING THE**  
11 **EQUITY RISK PREMIUM.**

12 A. The equity or market risk premium -  $(E(R_m) - R_f)$  - is equal to the expected return on  
13 the stock market (e.g., the expected return on the S&P 500  $(E(R_m))$ ) minus the risk-free  
14 rate of interest  $(R_f)$ . The equity premium is the difference in the expected total return  
15 between investing in equities and investing in "safe" fixed-income assets, such as  
16 long-term government bonds. However, while the equity risk premium is easy to  
17 define conceptually, it is difficult to measure because it requires an estimate of the  
18 expected return on the market.

19

20 **Q. PLEASE DISCUSS THE ALTERNATIVE APPROACHES TO ESTIMATING**  
21 **THE EQUITY RISK PREMIUM.**

22 A. Page 4 of Exhibit JRW-11 highlights the primary approaches to, and issues in,  
23 estimating the expected equity risk premium. The traditional way to measure the  
24 equity risk premium was to use the difference between historical average stock and  
25 bond returns. In this case, historical stock and bond returns, also called ex post



1 returns, were used as the measures of the market's expected return (known as the ex  
2 ante or forward-looking expected return). This type of historical evaluation of stock  
3 and bond returns is often called the "Ibbotson Approach" after Professor Roger  
4 Ibbotson, who popularized this method of using historical financial market returns as  
5 measures of expected returns. Most historical assessments of the equity risk premium  
6 suggest an equity risk premium of 5% to 7% above the rate on long-term U.S.  
7 Treasury bonds. However, this can be a problem because: (1) *ex post* returns are not  
8 the same as *ex ante* expectations, (2) market risk premiums can change over time,  
9 increasing when investors become more risk-averse and decreasing when investors  
10 become less risk-averse, and (3) market conditions can change such that *ex post*  
11 historical returns are poor estimates of *ex ante* expectations.

12 The use of historical returns as market expectations has been criticized in  
13 numerous academic studies.<sup>9</sup> The general theme of these studies is that the large  
14 equity risk premium discovered in historical stock and bond returns cannot be  
15 justified by the fundamental data. These studies, which fall under the category "Ex  
16 Ante Models and Market Data," compute *ex ante* expected returns using market data  
17 to arrive at an expected equity risk premium. These studies have also been called  
18 "Puzzle Research" after the famous study by Mehra and Prescott in which the authors  
19 first questioned the magnitude of historical equity risk premiums relative to  
20 fundamentals.<sup>10</sup>

21 In addition, there are a number of surveys of financial professionals regarding  
22 the equity risk premium. *CFO Magazine* conducts a quarterly survey of CFOs which  
23 includes questions regarding their views on the current expected returns on stocks and

---

<sup>9</sup> The problems with using *ex post* historical returns as measures of *ex ante* expectations will be discussed at length later in my testimony.

<sup>10</sup> R. Mehra and Edward Prescott, "The Equity Premium: A Puzzle," *Journal of Monetary Economics* (1985).

1 bonds. Usually over 500 CFOs participate in the survey.<sup>11</sup> Questions regarding  
2 expected stock and bond returns are also included in the Federal Reserve Bank of  
3 Philadelphia's annual survey of financial forecasters which is published as the *Survey*  
4 *of Professional Forecasters*.<sup>12</sup> This survey of professional economists has been  
5 published for almost 50 years. In addition, Pablo Fernandez conducts occasional  
6 surveys of financial analysts and companies regarding the equity risk premiums they  
7 use in their investment and financial decision-making.

8  
9 **Q. PLEASE PROVIDE A SUMMARY OF THE EQUITY RISK PREMIUM**  
10 **STUDIES.**

11 A. Derrig and Orr (2003), Fernandez (2007), and Song (2007) have completed the most  
12 comprehensive reviews to date of the research on the equity risk premium.<sup>13</sup> Derrig  
13 and Orr's study evaluated the various approaches to estimating equity risk premiums  
14 as well as the issues with the alternative approaches and summarized the findings of  
15 the published research on the equity risk premium. Fernandez examined four  
16 alternative measures of the equity risk premium – historical, expected, required, and  
17 implied. He also reviewed the major studies of the equity risk premium and  
18 presented the summary equity risk premium results. Song provides an annotated  
19 bibliography and highlights the alternative approaches to estimating the equity risk  
20 summary.

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<sup>11</sup> See [www.cfosurvey.org](http://www.cfosurvey.org).

<sup>12</sup> Federal Reserve Bank of Philadelphia, *Survey of Professional Forecasters*, (February 11, 2011). The *Survey of Professional Forecasters* was formerly conducted by the American Statistical Association ("ASA") and the National Bureau of Economic Research ("NBER") and was known as the ASA/NBER survey. The survey, which began in 1968, is conducted each quarter. The Federal Reserve Bank of Philadelphia, in cooperation with the NBER, assumed responsibility for the survey in June 1990.

<sup>13</sup> See Richard Derrig and Elisha Orr, "Equity Risk Premium: Expectations Great and Small," Working Paper (version 3.0), Automobile Insurers Bureau of Massachusetts, (August 28, 2003); Pablo Fernandez, "Equity Premium: Historical, Expected, Required, and Implied," IESE Business School Working Paper, (2007); Zhiyi Song, "The Equity Risk Premium: An Annotated Bibliography," CFA Institute, (2007).

1           Page 5 of Exhibit JRW-11 provides a summary of the results of the primary  
2 risk premium studies reviewed by Derrig and Orr, Fernandez, and Song, as well as  
3 other more recent studies of the equity risk premium. In developing page 5 of Exhibit  
4 JRW-11, I have categorized the studies as discussed on page 4 of Exhibit JRW-11. I  
5 have also included the results of the “Building Blocks” approach to estimating the  
6 equity risk premium, including a study I performed. The Building Blocks approach is  
7 a hybrid approach employing elements of both historic and *ex ante* models.

8

9 **Q. PLEASE DISCUSS YOUR DEVELOPMENT OF AN EQUITY RISK**  
10 **PREMIUM COMPUTED USING THE BUILDING BLOCKS**  
11 **METHODOLOGY.**

12 A. Ibbotson and Chen (2003) evaluate the ex post historical mean stock and bond returns  
13 in what is called the Building Blocks approach.<sup>14</sup> They use 75 years of data and  
14 relate the compounded historical returns to the different fundamental variables  
15 employed by different researchers in building ex ante expected equity risk premiums.  
16 Among the variables included were inflation, real EPS and DPS growth, ROE and  
17 book value growth, and price-earnings (“P/E”) ratios. By relating the fundamental  
18 factors to the ex post historical returns, the methodology bridges the gap between the  
19 ex post and ex ante equity risk premiums. Ilmanen (2003) illustrates this approach  
20 using the geometric returns and five fundamental variables – inflation (“CPI”),  
21 dividend yield (“D/P”), real earnings growth (“RG”), repricing gains (“PEGAIN”) and  
22 return interaction/reinvestment (“INT”).<sup>15</sup> This is shown on page 7 of Exhibit  
23 JRW-11. The first column breaks the 1926-2000 geometric mean stock return of

---

<sup>14</sup> Roger Ibbotson and Peng Chen, “Long Run Returns: Participating in the Real Economy,” *Financial Analysts Journal*, (January 2003).

<sup>15</sup> Antti Ilmanen, Expected Returns on Stocks and Bonds,” *Journal of Portfolio Management*, (Winter 2003), p. 11.

1 10.7% into the different return components demanded by investors: the historical  
2 U.S. Treasury bond return (5.2%), the excess equity return (5.2%), and a small  
3 interaction term (0.3%). This 10.7% annual stock return over the 1926-2000 period  
4 can then be broken down into the following fundamental elements: inflation (3.1%),  
5 dividend yield (4.3%), real earnings growth (1.8%), repricing gains (1.3%) associated  
6 with higher P/E ratios, and a small interaction term (0.2%).  
7

8 **Q. HOW ARE YOU USING THIS METHODOLOGY TO DERIVE AN EX ANTE**  
9 **EXPECTED EQUITY RISK PREMIUM?**

10 A. The third column in the graph on page 7 of Exhibit JRW-11 shows current inputs to  
11 estimate an ex ante expected market return. These inputs include the following:

12 CPI – To assess expected inflation, I have employed expectations of the short-term  
13 and long-term inflation rate. Long term inflation forecasts are available in the Federal  
14 Reserve Bank of Philadelphia’s publication entitled *Survey of Professional*  
15 *Forecasters*. While this survey is published quarterly, only the first quarter survey  
16 includes long-term forecasts of gross domestic product (“GDP”) growth, inflation,  
17 and market returns. In the first quarter 2011 survey, published on February 11, 2011,  
18 the average long-term (10-year) expected inflation rate as measured by the CPI was  
19 2.30% (see Panel A of page 8 of Exhibit JRW-11).

20 The University of Michigan’s Survey Research Center surveys consumers on  
21 their short-term (one-year) inflation expectations on a monthly basis. As shown on  
22 page 9 of Exhibit JRW-11, the current short-term expected inflation rate is 3.5%.

23 As a measure of expected inflation, I will use the average of the long-term  
24 (2.3%) and short-term (3.5%) inflation rate measures, or 2.8%.

1        D/P – As shown on page 10 of Exhibit JRW-11, the dividend yield on the S&P 500  
2        has fluctuated from 1.0% to almost 3.5% over the past decade. Ibbotson and Chen  
3        (2003) report that the long-term average dividend yield of the S&P 500 is 4.3%.  
4        Currently, the S&P 500 dividend yield is 2.4%. I will use this figure in my ex ante  
5        risk premium analysis.

6        RG – To measure expected real growth in earnings, I use the historical real earnings  
7        growth rate of the S&P 500 and the expected real GDP growth rate. The S&P 500  
8        was created in 1960 and includes 500 companies which come from ten different  
9        sectors of the economy. On page 11 of Exhibit JRW-11, real EPS growth is  
10       computed using the CPI as a measure of inflation. The real growth figure over 1960-  
11       2010 period for the S&P 500 is 2.6%.

12                The second input for expected real earnings growth is expected real GDP  
13        growth. The rationale is that over the long-term, corporate profits have averaged a  
14        relatively consistent 5.50% of U.S. GDP.<sup>16</sup> Expected GDP growth, according to the  
15        Federal Reserve Bank of Philadelphia's *Survey of Professional Forecasters*, is 2.9%  
16        (see Panel B of page 8 of Exhibit JRW-11).

17                Given these results, I will use 2.75%, for real earnings growth.

18        PEGAIN – PEGAIN is the repricing gain associated with an increase in the P/E ratio.  
19        It accounted for 1.3% of the 10.7% annual stock return in the 1926-2000 period. In  
20        estimating an ex ante expected stock market return, one issue is whether investors  
21        expect P/E ratios to increase from their current levels. The P/E ratios for the S&P  
22        500 over the past 25 years are shown on page 10 of Exhibit JRW-11. The run-up and  
23        eventual peak in P/Es in the year 2000 is very evident in the chart. The average P/E  
24        declined until late 2006, and then increased to higher high levels, primarily due to the

---

<sup>16</sup>Marc. H. Goedhart, et al, "The Real Cost of Equity," *McKinsey on Finance* (Autumn 2002), p.14.

1 decline in EPS as a result of the financial crisis and the recession. The current average  
2 P/E for the S&P 500 is approximately 13.0, which is in line with the historic average.  
3 Since the current figure is near the historic average, a PEGAIN would not be  
4 appropriate in estimating an ex ante expected stock market return.

5

6 **Q. GIVEN THIS DISCUSSION, WHAT IS THE EX ANTE EXPECTED**  
7 **MARKET RETURN AND EQUITY RISK PREMIUM USING THE**  
8 **“BUILDING BLOCKS METHODOLOGY”?**

9 A. My expected market return is represented by the last column on the right in the graph  
10 entitled “Decomposing Equity Market Returns: The Building Blocks Methodology”  
11 set forth on page 7 of Exhibit JRW-11. As shown, my expected market return of  
12 7.95% is composed of 2.8% expected inflation, 2.4% dividend yield, and 2.75% real  
13 earnings growth rate.

14

15 **Q. IS AN EXPECTED MARKET RETURN OF 7.95% CONSISTENT WITH THE**  
16 **FORECASTS OF MARKET PROFESSIONALS?**

17 A. Yes. In the first quarter 2011 *Survey of Financial Forecasters*, published on February  
18 11, 2011 by the Federal Reserve Bank of Philadelphia, the mean long-term expected  
19 return on the S&P 500 was 7.37% (see Panel D of page 8 of Exhibit JRW-11).

20

21 **Q. IS AN EXPECTED MARKET RETURN OF 7.95% CONSISTENT WITH THE**  
22 **EXPECTED MARKET RETURNS OF CORPORATE CHIEF FINANCIAL**  
23 **OFFICERS (CFOs)?**

24 A. Yes. John Graham and Campbell Harvey of Duke University conduct a quarterly  
25 survey of corporate CFOs. The survey is a joint project of Duke University and *CFO*

1 *Magazine*. In the September 2011 survey, the mean expected return on the S&P 500  
2 over the next ten years was 6.5%.<sup>17</sup>

3  
4 **Q. GIVEN THIS EXPECTED MARKET RETURN, WHAT IS THE EX ANTE**  
5 **EQUITY RISK PREMIUM USING THE BUILDING BLOCKS**  
6 **METHODOLOGY?**

7 A. The current 30-year U.S. Treasury yield is approximately 3.00%. This ex ante equity  
8 risk premium is simply the expected market return from the Building Blocks  
9 methodology minus this risk-free rate:

10

11 Ex Ante Equity Risk Premium = 7.95% - 3.0% = 4.95%

12

13 **Q. HOW ARE YOU USING THIS EQUITY RISK PREMIUM ESTIMATE IN**  
14 **YOUR CAPM EQUITY COST RATE STUDY?**

15 A. This is only one estimate of the equity risk premium. As shown on page 5 of Exhibit  
16 JRW-11, I am also using the results of over thirty other studies and surveys to  
17 determine an equity risk premium for my CAPM.

18

19 **Q. PLEASE DISCUSS PAGE 5 OF EXHIBIT JRW-11.**

20 A. Page 5 of Exhibit JRW-11 provides a summary of the results of the equity risk  
21 premium studies that I have reviewed. These include the results of: (1) the various  
22 studies of the historical risk premium, (2) *ex ante* equity risk premium studies, (3)  
23 equity risk premium surveys of CFOs, Financial Forecasters, analysts, companies and

---

<sup>17</sup> The survey results are available at [www.cfosurvey.org](http://www.cfosurvey.org).

1 academics, and (4) the Building Block approaches to the equity risk premium. There  
2 are results reported for over thirty studies, and the median equity risk premium is  
3 5.03%.

4

5 **Q. PLEASE HIGHLIGHT THE RESULTS OF THE MORE RECENT RISK**  
6 **PREMIUM STUDIES AND SURVEYS?**

7 A. The studies cited on page 5 of Exhibit JRW-11 include all equity risk premium  
8 studies and surveys I could identify that were published over the past decade and that  
9 provided an equity risk premium estimate. Most of these studies were published prior  
10 to the financial crisis of the past two years. In addition, some of these studies were  
11 published in the early 2000s at the market peak. It should be noted that many of these  
12 studies (as indicated) used data over long periods of time (as long as fifty years of  
13 data) and so they were not estimating an equity risk premium as of a point in time  
14 (e.g., the year 2001). To assess the effect of the earlier studies on the equity risk  
15 premium, on page 6 of Exhibit JRW-11 I have reconstructed page 5 of Exhibit JRW-  
16 11, but I have eliminated all studies dated before January 2, 2010. The median for  
17 this subset of studies is 5.10%.

18

19 **Q. GIVEN THESE RESULTS, WHAT EQUITY RISK PREMIUM ARE YOU**  
20 **USING IN YOUR CAPM?**

21 A. I use the median equity risk premium for the 2010-11 studies and surveys, which is  
22 5.10%.

23



1 Q. IS YOUR *EX ANTE* EQUITY RISK PREMIUM CONSISTENT WITH THE  
2 EQUITY RISK PREMIUMS USED BY CFOS AND FINANCIAL  
3 FORECASTERS?

4 A. Yes. My risk premium is below historic averages and therefore is consistent with  
5 surveys of CFOs and financial forecasters. In the September 2011 CFO survey  
6 conducted by *CFO Magazine* and Duke University, the expected 10-year equity risk  
7 premium was 4.2%. In addition, the financial forecasters in the previously referenced  
8 Federal Reserve Bank of Philadelphia survey project both stock and bond returns. As  
9 shown on Panels D and E of page 8 of Exhibit JRW-11, the mean long-term expected  
10 stock and bond returns were 7.37% and 4.50%, respectively. This provides an *ex ante*  
11 equity risk premium of 2.87%.

12

13 Q. IS YOUR *EX ANTE* EQUITY RISK PREMIUM CONSISTENT WITH THE  
14 EQUITY RISK PREMIUMS OF FINANCIAL ANALYSTS AND  
15 COMPANIES?

16 A. Yes. Pablo Fernandez recently published the results of a 2011 survey of financial  
17 analysts and companies. This survey included over 6,000 responses. The median  
18 equity risk premium employed by both U.S. analysts and companies was 5.0% and  
19 5.2%.

20

21 Q. IS YOUR *EX ANTE* EQUITY RISK PREMIUM CONSISTENT WITH THE  
22 EQUITY RISK PREMIUMS USED BY THE LEADING CONSULTING  
23 FIRMS?

24 A. Yes. McKinsey & Co. is widely recognized as the leading management consulting  
25 firm in the world. It published a study entitled "The Real Cost of Equity" in which

1 the McKinsey authors developed an *ex ante* equity risk premium for the U.S. In  
 2 reference to the decline in the equity risk premium, as well as what is the appropriate  
 3 equity risk premium to employ for corporate valuation purposes, the McKinsey  
 4 authors concluded the following:

5 We attribute this decline not to equities becoming less  
 6 risky (the inflation-adjusted cost of equity has not  
 7 changed) but to investors demanding higher returns in  
 8 real terms on government bonds after the inflation  
 9 shocks of the late 1970s and early 1980s. We believe  
 10 that using an equity risk premium of 3.5 to 4 percent in  
 11 the current environment better reflects the true long-  
 12 term opportunity cost of equity capital and hence will  
 13 yield more accurate valuations for companies.<sup>18</sup>

14  
 15 **Q. WHAT EQUITY COST RATE IS INDICATED BY YOUR CAPM ANALYSIS?**

16 A. The results of my CAPM study for the proxy group are provided below:

$$K = (R_f) + \beta * [E(R_m) - (R_f)]$$

	<b>Risk-Free Rate</b>	<b>Beta</b>	<b>Equity Risk Premium</b>	<b>Equity Cost Rate</b>
<b>Electric Proxy Group</b>	<b>4.0%</b>	<b>0.70</b>	<b>5.10%</b>	<b>7.6%</b>

18 These results are summarized on page 1 of Exhibit JRW-11.

19  
 20 **VI. EQUITY COST RATE SUMMARY**

21  
 22 **Q. PLEASE SUMMARIZE YOUR EQUITY COST RATE STUDY.**

23 A. The results for my DCF and CAPM analyses for the proxy group of electric utility  
 24 companies re indicated below:

	<b>DCF</b>	<b>CAPM</b>
<b>Electric Proxy Group</b>	<b>9.3%</b>	<b>7.6%</b>

<sup>18</sup> Marc H. Goedhart, *et al.*, "The Real Cost of Equity," *McKinsey on Finance* (Autumn 2002), p. 15.

1 **Q. GIVEN THESE RESULTS, WHAT IS YOUR ESTIMATED EQUITY COST**  
2 **RATE FOR THE GROUP?**

3 A. These results indicate that the appropriate equity cost rate for Gulf Power is in the  
4 7.6% to 9.3% range. However, since I give greater weight to the results of the DCF  
5 model, I believe that the appropriate equity cost rate for Gulf Power is 9.25%.

6  
7 **Q. PLEASE INDICATE WHY A 9.25% RETURN IS APPROPRIATE FOR GULF**  
8 **POWER AT THIS TIME.**

9 A. There are several reasons why 9.25% ROE is an appropriate for the Company in this  
10 case. First, as shown on Exhibit JRW-8, the electric utility industry is among the  
11 lowest risk industries as measured by beta. As such, the cost of equity capital for the  
12 industry is among the lowest in the U.S. according to the CAPM. Second, as shown in  
13 Exhibit JRW-3, capital costs for utilities, as indicated by long-term bond yields, have  
14 declined to their pre-financial crisis levels. Third, while the financial markets have  
15 recovered significantly in the past year, the economy has not. The economic times are  
16 still viewed as being difficult, with nearly nine percent unemployment. As a result,  
17 interest rates and inflation are at relatively low levels, and hence the expected returns  
18 on financial assets – from savings accounts to Treasury bills to common stocks – are  
19 low. Therefore, in my opinion, a 9.25% return is appropriate for Gulf Power.

20

21 **VII. CRITIQUE OF GULF POWER'S RATE OF RETURN TESTIMONY**

22

23 **Q. PLEASE SUMMARIZE DR. VANDER WEIDE'S RATE OF RETURN**  
24 **RECOMMENDATION FOR GULF POWER.**

1 A. Gulf Power witness Mr. Richard J. McMillan provides the Company's proposed  
2 capital structure and long-term debt cost rate, and Dr. James H. Vander Weide  
3 recommends a common equity cost rate for Gulf Power. Gulf Power's rate of return  
4 recommendation is summarized on page 1 of Exhibit JRW-12. Gulf Power's  
5 recommended capital structure includes 1.30% short-term debt, 47.83% long-term  
6 debt, 5.31% preferred stock, and 46.87% common equity. Gulf Power uses short-  
7 term and long-term debt cost rates of 2.12% and 5.45%, a preferred stock cost rate of  
8 6.65% and an equity cost rate of 11.7%.

9

10 **Q. WHAT ISSUES DO YOU HAVE WITH THE COMPANY'S COST OF**  
11 **CAPITAL POSITION?**

12 A. The primary areas of disagreement in measuring Gulf Power' cost of capital are: (1) the  
13 appropriate debt and preferred stock cost rates for Gulf Power; (2) the dividend yield in  
14 the quarterly DCF model; (3) the exclusive use of the projected growth rates of Wall  
15 Street analysts to measure expected DCF growth; (4) the base interest rate as well as the  
16 market or equity risk premium in the RP and CAPM approaches; (5) unwarranted  
17 flotation cost adjustments to his equity cost rate results; and (6) an erroneous leverage  
18 adjustment based on the market value capital structures of his proxy group. The debt  
19 and preferred stock cost rate issues were discussed previously. The other issues are  
20 addressed below.

21

22 **Q. PLEASE REVIEW DR. VANDER WEIDE'S EQUITY COST RATE**  
23 **APPROACHES.**

24 A. Dr. Vander Weide uses an electric utility proxy group and employs DCF, CAPM, and  
25 RP equity cost rate approaches. Dr. Vander Weide's equity cost rate estimates for

1 Gulf Power are summarized in the in Panel A of Exhibit JRW-13. Based on these  
2 figures, he concludes that the appropriate equity cost rate for the Company is 11.7%.

3  
4 **Q. PLEASE DISCUSS YOUR ISSUES WITH DR. VANDER WEIDE'S**  
5 **RECOMMENDED EQUITY COST RATE.**

6 A. Dr. Vander Weide's requested return on common equity is too high, primarily  
7 due to: (A) the use of a quarterly DCF dividend yield adjustment in his DCF  
8 approach; (B) an inflated growth rate in his DCF approach; (C) excessive equity risk  
9 premiums in his RP and CAPM approaches; (D) unwarranted flotation cost  
10 adjustments to his equity cost rate results; and (E) an erroneous leverage adjustment  
11 based on the market value capital structures of his proxy group. The flotation cost  
12 and leverage adjustment are discussed later in the testimony. The individual equity  
13 cost rate approaches are reviewed below.

14  
15 **A. DCF Approach**

16 **Q. PLEASE SUMMARIZE DR. VANDER WEIDE'S DCF ESTIMATES.**

17 A. On pages 20-30 of his testimony and his Exhibit No. \_\_\_(JVW-1), Schedule 1, Dr.  
18 Vander Weide develops an equity cost rate by applying a DCF model to his group of  
19 electric utility companies. In the traditional DCF approach, the equity cost rate is the  
20 sum of the dividend yield and expected growth. Dr. Vander Weide makes adjustments to  
21 the dividend yield to reflect the quarterly payment of dividends. Dr. Vander Weide uses  
22 one measure of DCF expected growth - the projected EPS growth rate forecasts from  
23 Wall Street analysts as provided by I/B/E/S. Dr. Vander Weide's DCF results are  
24 provided in Panel B of Exhibit JRW-13. Based on these figures, Dr. Vander Weide  
25 claims that the DCF equity cost rate for the Vander Weide Proxy Group is 10.7%.

1

2 **Q. PLEASE DISCUSS THE ADJUSTMENT TO THE DIVIDEND YIELD TO**  
3 **REFLECT THE QUARTERLY PAYMENT OF DIVIDENDS.**

4 A. In Exhibit\_\_\_(JVW-2), Schedule 2, Dr. Vander Weide discusses his quarterly DCF  
5 model. Dr. Vander Weide's approach compounds the quarterly dividend payment over  
6 the year to compute the dividend yield. This compounding process results in an  
7 overstated dividend yield.

8 There are several issues with the quarterly adjustment process. First, as  
9 discussed earlier in my testimony, the appropriate dividend yield adjustment for  
10 growth in the DCF model is the expected dividend for the next quarter multiplied by  
11 four. The quarterly adjustment procedure is inconsistent with this approach. The  
12 quarterly model includes an adjustment to reflect the time value of money. Each  
13 quarterly dividend is compounded to the end of the year using the long-term growth  
14 rate as the compounding factor. As such, this approach presumes that investors require  
15 additional compensation during the coming year because their dividends are paid out  
16 quarterly instead of being paid all in a lump sum. The error in this logic and approach  
17 is that the investor receives the money from each quarterly dividend and has the  
18 option to reinvest it as he or she chooses. This reinvestment generates its own  
19 compounding, but it is outside of the dividend payments of the issuing company. Dr.  
20 Vander Weide's approach serves to duplicate this compounding process, thereby  
21 inflating the return to the investor.

22 Finally, as previously discussed, the appropriate growth rate adjustment to the  
23 dividend yield in the DCF model is complicated because companies change their  
24 quarterly dividend payments at different times during the year. This means that it is  
25 not appropriate to make a full-year adjustment to the dividend yield. Therefore, I

1 have adjusted the dividend yield for the Electric Proxy Group by 1/2 the expected  
2 growth rate. This is consistent with the approach used by the Federal Energy  
3 Regulatory Commission.<sup>19</sup>

4  
5 **Q. PLEASE CRITIQUE DR. VANDER WEIDE'S DCF GROWTH RATE**  
6 **MEASURES.**

7  
8 A. Dr. Vander Weide uses the projected EPS growth rate forecasts of Wall Street  
9 analysts as compiled by I/B/E/S in estimating as his DCF growth rate. His market-  
10 value weighted average for the group is 6.0%.

11  
12 **Q. PLEASE DISCUSS THE PRIMARY ERROR IN DR. VANDER WEIDE'S DCF**  
13 **GROWTH RATE ANALYSIS.**

14 A. The primary issue is that Dr. Vander Weide relied exclusively on the long-term EPS  
15 growth rate forecasts of Wall Street analysts in developing a DCF growth rate. This  
16 is an error. These growth rate forecasts are overly optimistic and upwardly biased.  
17 The results of the research on Wall Street analysts' EPS growth rate forecasts are  
18 unambiguous on this issue.

19  
20 **Q. PLEASE REVIEW THE ACADEMIC RESEARCH ON THE ACCURACY OF**  
21 **ANALYSTS' NEAR-TERM EPS ESTIMATES AND LONG-TERM EPS**  
22 **GROWTH RATE FORECASTS.**

23 A. There is a long history of studies that evaluate how well analysts forecast near-term EPS  
24 estimates and long-term EPS growth rates. Most of the early studies evaluated the

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<sup>19</sup> Opinion No. 414-A, *Transcontinental Gas Pipe Line Corp.*, 84 FERC ¶61,084 (1998).

1 accuracy of earnings forecasts for the next quarter or the next year. These studies  
 2 demonstrate that analysts make overly optimistic EPS earnings forecasts (Stickel  
 3 (1990); Brown (1997); Chopra (1998)).<sup>20</sup> Harris (1999) published the first study  
 4 examining the accuracy of long-term EPS growth rate forecasts.<sup>21</sup> He evaluated the  
 5 accuracy of analysts' long-term EPS forecasts over the 1982-1997 time period. He  
 6 concluded the following: (1) the accuracy of analysts' long-term EPS forecasts is very  
 7 low; (2) a superior long-run method to forecast long-term EPS growth is to assume  
 8 that all companies will have an earnings growth rate equal to historic GDP growth;  
 9 and (3) analysts' long-term EPS forecasts are significantly upwardly biased, with  
 10 forecasted earnings growth exceeding actual earnings growth by seven percent per  
 11 annum. Subsequent studies by DeChow, P., A. Hutton, and R. Sloan (2000), and  
 12 Chan, Karceski, and Lakonishok (2003) also conclude that analysts' long-term EPS  
 13 growth rate forecasts are overly optimistic and upwardly biased.<sup>22</sup>

14 More recent studies have shown that the optimistic bias tends to be larger for  
 15 longer-term forecasts and smaller for forecasts made nearer to the EPS announcement  
 16 date. Richardson, Teoh, and Wysocki (2004) report that the upward bias in earnings  
 17 growth rates declines in the quarters leading up to the earnings announcement date.<sup>23</sup>  
 18 They call this result the "walk-down to beatable analyst forecasts." They hypothesize  
 19 that the walk-down might be driven by the "earning-guidance game," in which

---

<sup>20</sup> S. Stickel, "Predicting Individual Analyst Earnings Forecasts," *Journal of Accounting Research*, Vol. 28, 409-417, 1990. Brown, L.D., "Analyst Forecasting Errors: Additional Evidence," *Financial Analysts Journal*, Vol. 53, 81-88, 1997, and Chopra, V.K., "Why So Much Error in Analysts' Earnings Forecasts?" *Financial Analysts Journal*, Vol. 54, 30-37 (1998).

<sup>21</sup> R.D. Harris, "The Accuracy, Bias, and Efficiency of Analysts' Long Run Earnings Growth Forecasts," *Journal of Business Finance & Accounting*, pp. 725-55 (June/July 1999).

<sup>22</sup> P. DeChow, A. Hutton, and R. Sloan, "The Relation Between Analysts' Forecasts of Long-Term Earnings Growth and Stock Price Performance Following Equity Offerings," *Contemporary Accounting Research* (2000) and K. Chan, L., Karceski, J., & Lakonishok, J., "The Level and Persistence of Growth Rates," *Journal of Finance* pp. 643-684, (2003).

<sup>23</sup> S. Richardson, S. Teoh, and P. Wysocki, "The Walk-Down to Beatable Analyst Forecasts: The Role of Equity Issuance and Insider Trading Incentives," *Contemporary Accounting Research*, pp. 885-924, (2004).



1 analysts give optimistic forecasts at the start of a fiscal year, then revise their  
2 estimates downwards until the firm can beat the forecasts at the earnings  
3 announcement date.

4 In sum, there have been many studies of analysts' earnings forecasts. The  
5 studies conclude (almost unanimously) that analysts' earnings forecasts of short-term  
6 earnings estimates and long-term earnings growth rates are overly optimistic. In terms  
7 of analysts' projections of long-term earnings growth, all previous studies have come  
8 to this conclusion.

9  
10 **Q. PLEASE DISCUSS YOUR STUDY OF THE ACCURACY OF ANALYSTS'**  
11 **LONG-TERM EARNINGS GROWTH RATES.**

12 A. To evaluate the accuracy of analysts' EPS forecasts, I have compared actual 3-5 year  
13 EPS growth rates with forecasted EPS growth rates on a quarterly basis over the past  
14 20 years for all companies covered by the I/B/E/S data base. In Panel A of page 1 of  
15 Exhibit JRW-14, I show the average analysts' forecasted 3-5 year EPS growth rate  
16 with the average actual 3-5 year EPS growth rate for the past twenty years.

17 The following example shows how the results can be interpreted. For the 3-5 year  
18 period prior to the first quarter of 1999, analysts had projected an EPS growth rate of  
19 15.13%, but companies generated an average annual EPS growth rate over the 3-5  
20 years of only 9.37%. This projected EPS growth rate figure represented the average  
21 projected growth rate for over 1,510 companies, with an average of 4.88 analyst  
22 forecasts per company. For the entire twenty-year period of the study, for each  
23 quarter there were, on average, 5.6 analysts' EPS projections for 1,281 companies.  
24 Overall, my findings indicate that forecast errors for long-term estimates are  
25 predominantly positive, which indicates an upward bias in growth rate estimates. The

1 mean and median forecast errors over the observation period are 143.06% and  
2 75.08%, respectively. The forecasting errors are negative for only eleven of the eighty  
3 quarterly time periods: five consecutive quarters starting at the end of 1995, and six  
4 consecutive quarters starting in 2006. As shown in Panel A of page 1 of Exhibit  
5 JRW-14, the quarters with negative forecast errors were for the 3-5 year periods  
6 following earnings declines associated with the 1991 and 2001 economic recessions  
7 in the U.S. Thus, there is evidence of a persistent upward bias in long-term EPS  
8 growth forecasts.

9 The average 3-5 year EPS growth rate projections for all companies provided in the  
10 I/B/E/S database on a quarterly basis from 1988 to 2008 are shown in Panel B of page  
11 1 of Exhibit JRW-14. In this graph, no comparison to actual EPS growth rates is  
12 made, and hence, there is no follow-up period. Therefore, since companies are not  
13 lost from the sample due to a lack of follow-up EPS data, these results are for a larger  
14 sample of firms. Analysts' forecasts for EPS growth were higher for this larger  
15 sample of firms, with a more pronounced run-up and then decline around the stock  
16 market peak in 2000. The average projected growth rate hovered in the 14.5%-17.5%  
17 range until 1995 and then increased dramatically over the next five years to 23.3% in  
18 the fourth quarter of the year 2000. Forecasted EPS growth has since declined to the  
19 15.0% range.

20  
21 **Q. HAVE THE MARKETS OBSERVED THE UPWARD BIAS IN ANALYSTS'**  
22 **GROWTH RATE FORECASTS THAT YOU OBSERVE?**

23 A. Yes. Page 2 of Exhibit JRW-14 provides an article published in the *Wall Street Journal*,  
24 dated March 21, 2008, that discusses the upward bias in analysts' EPS growth rate

1 forecasts.<sup>24</sup> In addition, a recent *Bloomberg Businessweek* article also highlighted the  
 2 upward bias in analysts' EPS forecasts, citing a study by McKinsey Associates. This  
 3 article is provided on pages 3 and 4 of Exhibit JRW-14. The article concludes with the  
 4 following:<sup>25</sup>

5 *The bottom line: Despite reforms intended to improve Wall Street research,*  
 6 *stock analysts seem to be promoting an overly rosy view of profit prospects.*

7

8 **Q. PLEASE ADDRESS THE COMPARATIVE ACCURACY OF ANALYSTS' EPS**  
 9 **FORECASTS AND HISTORIC AND TIME-SERIES ESTIMATES OF EPS**  
 10 **GROWTH.**

11 A. As highlighted by the classic study by Brown and Rozeff (1976) and the other studies  
 12 that followed, analysts' forecasts of quarterly earnings estimates are superior to the  
 13 estimates derived from historic and time-series analyses.<sup>26</sup> This is often attributed to the  
 14 information and timing advantage that analysts have over historic and time-series  
 15 analyses. However, more recently Bradshaw, Drake, Myers, and Myers (2009)  
 16 discovered that time-series estimates of annual earnings are more accurate over  
 17 longer horizons than analysts' forecasts of earnings. As the authors state, "These  
 18 findings suggest an incomplete and misleading generalization about the superiority of  
 19 analysts' forecasts over even simple time-series-based earnings forecasts."<sup>27</sup>

20 With respect to long-term earnings growth, analysts' forecasts of long-term  
 21 growth have not been found to be superior to other historic growth rate measures. Harris

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<sup>24</sup> Andrew Edwards, "Study Suggests Bias in Analysts' Rosy Forecasts," *Wall Street Journal* (March 21, 2008), p. C6.

<sup>25</sup> Roben Farzad, 'For Analysts, Things are Always Looking Up,' *Bloomberg Businessweek* (June 14, 2010), pp. 39-40.

<sup>26</sup> L. Brown and M. Rozeff, "The Superiority of Analyst Forecasts as Measures of Expectations: Evidence from Earnings," *The Journal of Finance* 33 (1): pp. 1-16 (1976).

<sup>27</sup> M. Bradshaw, M. Drake, J. Myers, and L. Myers, "A Re-examination of Analysts' Superiority Over Time-Series Forecasts," Working paper, (1999), <http://ssrn.com/abstract=1528987>.

1 (1999) concluded that historic GDP growth was superior to analysts' forecasts for  
2 long run earnings growth. These results are supported by empirical results of Chan,  
3 Karceski, and Lakonishok (2003).

4 **Q. WHAT IMPACT HAVE NEW STOCK MARKET AND REGULATORY**  
5 **DEVELOPMENTS HAD ON ANALYSTS' EPS GROWTH RATE**  
6 **FORECASTS?**

7 A. Analysts' EPS growth rate forecasts have subsided somewhat since the stock market  
8 peak of 2000. Two regulatory developments over the past decade have potentially  
9 impacted analysts' EPS growth rate estimates. First, Regulation Fair Disclosure ("Reg  
10 FD") was introduced by the Securities and Exchange Commission ("SEC") in  
11 October of 2000. Reg FD prohibits private communication between analysts and  
12 management so as to level the information playing field in the markets. With Reg  
13 FD, analysts are less dependent on gaining access to management to obtain  
14 information and therefore, are not as likely to make optimistic forecasts to gain access  
15 to management. Second, the conflict of interest within investment firms with  
16 investment banking and analyst operations was addressed in the Global Analysts  
17 Research Settlements ("GARS"). GARS, as agreed upon on April 23, 2003, between  
18 the SEC, NASD, NYSE and ten of the largest U.S. investment firms, includes a  
19 number of regulations that were introduced to prevent investment bankers from  
20 pressuring analysts to provide favorable projections.

21 The impact of these regulatory developments on the accuracy of short-term  
22 EPS estimates was addressed in a recent study by Hovakimian and Saenyasiri  
23 (2009).<sup>28</sup> They investigate analysts' forecasts of annual earnings for the following  
24 time periods: (1) the time prior to Reg FD (1984-2000); (2) the time period after Reg

---

<sup>28</sup> A. Hovakimian and E. Saenyasiri, "Conflicts of Interest and Analysts Behavior: Evidence from Recent Changes in Regulation," *Financial Analysts Journal* (July-August, 2010), pp. 96-107.

1 FD but prior to GARS (2000-2002);<sup>29</sup> and (3) the time period after GARS (2002-  
2 2006). For the pre-Reg FD period, Hovakimian and Saenyasiri find that analysts  
3 generally made overly optimistic forecasts of annual earnings. The forecast bias was  
4 higher for early forecasts and steadily declined in the months leading up to the  
5 earnings announcement. The results are similar for the time period after Reg FD but  
6 prior to GARS. However, the bias was lower in the later forecasts (the forecasts  
7 made just prior to the announcement). For the time period after GARS, the average  
8 forecasts declined significantly, but a positive bias remains. In sum, Hovakimian and  
9 Saenyasiri find that: (1) analysts make overly optimistic short-term forecasts of  
10 annual earnings; (2) Reg FD had no effect on this bias; and (3) GARS did result in a  
11 significant reduction in the bias, but analysts' short-term forecasts of annual earnings  
12 still have a small positive bias.

13 Whereas Hovakimian and Saenyasiri evaluated the impact of regulations on  
14 analysts' short-term EPS estimates, there is little research on the impact of Reg FD  
15 and GARS on the long-term EPS forecasts of Wall Street analysts. My study with  
16 Patrick Cusatis did find that the long-term EPS growth rate forecasts of analysts did  
17 not decline significantly and have continued to be overly-optimistic in the post Reg  
18 FD and GARS period.<sup>30</sup> Analysts' long-term EPS growth rate forecasts before and  
19 after GARS are about two times the level of historic GDP growth. These  
20 observations are supported by a *Wall Street Journal* article entitled "Analysts Still  
21 Coming Up Rosy – Over-Optimism on Growth Rates is Rampant – and the Estimates  
22 Help to Buoy the Market's Valuation." The following quote provides insight into the

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<sup>29</sup> Whereas the GARS settlement was signed in 2003, rules addressing analysts' conflict of interest by separating the research and investment banking activities of analysts went into effect with the passage of NYSE and NASD rules in July of 2002.

<sup>30</sup> P. Cusatis and J. R. Woolridge, "The Accuracy of Analysts' Long-Term EPS Growth Rate Forecasts," Working Paper, (July 2008).

1 continuing bias in analysts' forecasts:

2 Hope springs eternal, says Mark Donovan, who manages  
3 Boston Partners Large Cap Value Fund. "You would have  
4 thought that, given what happened in the last three years,  
5 people would have given up the ghost. But in large measure  
6 they have not.

7 These overly optimistic growth estimates also show that, even  
8 with all the regulatory focus on too-bullish analysts allegedly  
9 influenced by their firms' investment-banking relationships, a  
10 lot of things haven't changed. Research remains rosy and many  
11 believe it always will.<sup>31</sup>

12

13

14 **Q. HOW DO THESE OBSERVATIONS COMPARE WITH THE FINDINGS OF**  
15 **A RECENT MCKINSEY STUDY ON THE IMPACT OF THESE**  
16 **REGULATIONS ON THE ACCURACY OF ANALYSTS' EPS GROWTH**  
17 **RATE FORECASTS?**

18 A. McKinsey recently published a study entitled "Equity Analysts: Still too Bullish" in  
19 which they reported on a study of the accuracy on analysts long-term EPS growth rate  
20 forecasts. They concluded that after a decade of stricter regulation, analysts' long-  
21 term earnings forecasts continue to be excessively optimistic.

22 They made the following observation (emphasis added):<sup>32</sup>

23

24 Alas, a recently completed update of our work only reinforces this  
25 view—despite a series of rules and regulations, dating to the last  
26 decade, that were intended to improve the quality of the analysts'  
27 long-term earnings forecasts, restore investor confidence in them,  
28 and prevent conflicts of interest. For executives, many of whom go  
29 to great lengths to satisfy Wall Street's expectations in their financial  
30 reporting and long-term strategic moves, this is a cautionary tale  
31 worth remembering. This pattern confirms our earlier findings that  
32 analysts typically lag behind events in revising their forecasts to

<sup>31</sup> Ken Brown, "Analysts Still Coming Up Rosy – Over-Optimism on Growth Rates is Rampant – and the Estimates Help to Buoy the Market's Valuation," *Wall Street Journal*, p. C1, (January 27, 2003).

<sup>32</sup> Marc H. Goedhart, Rishi Raj, and Abhishek Saxena, "Equity Analysts, Still Too Bullish," *McKinsey on Finance*, pp. 14-17, (Spring 2010).

1 reflect new economic conditions. When economic growth  
2 accelerates, the size of the forecast error declines; when economic  
3 growth slows, it increases. So as economic growth cycles up and  
4 down, the actual earnings S&P 500 companies report occasionally  
5 coincide with the analysts' forecasts, as they did, for example, in  
6 1988, from 1994 to 1997, and from 2003 to 2006. Moreover,  
7 analysts have been persistently overoptimistic for the past 25 years,  
8 with estimates ranging from 10 to 12 percent a year, compared with  
9 actual earnings growth of 6 percent. Over this time frame, actual  
10 earnings growth surpassed forecasts in only two instances, both  
11 during the earnings recovery following a recession. On average,  
12 analysts' forecasts have been almost 100 percent too high.  
13 (Emphasis added.)  
14  
15  
16

17 **Q. ARE YOUR OBSERVATIONS REGARDING THE UPWARD BASIS OF**  
18 **ANALYSTS' EPS GROWTH RATE FORECASTS APPLICABLE TO**  
19 **UTILITY COMPANIES?**

20 A. Yes. To evaluate whether analysts' EPS growth rate forecasts are upwardly biased for  
21 utility companies, I conducted a study similar to the one described above using a  
22 group of electric utility companies. The results are shown on Panels A and B of page  
23 5 of Exhibit JRW-14. The projected EPS growth rates for electric utilities have been  
24 in the 4% to 6% range over the last twenty years, with the recent figures  
25 approximately 5%. As shown, the achieved EPS growth rates have been volatile and  
26 on average, below the projected growth rates. Over the entire period, the average  
27 quarterly 3-5 year projected and actual EPS growth rates are 4.59% and 2.90%,  
28 respectively.

29 Overall, the upward bias in EPS growth rate projections for electric utility  
30 companies is not as pronounced as it is for all companies. Nonetheless, the results  
31 here are consistent with the results for companies in general -- analysts' projected  
32 EPS growth rate forecasts are upwardly-biased for utility companies.

33

1 **Q. WHAT ABOUT *VALUE LINE*'S GROWTH RATE FORECASTS?**

2 A. *Value Line* has a decidedly positive bias to its earnings growth rate forecasts as well. To  
3 assess *Value Line*'s earnings growth rate forecasts, I used the *Value Line Investment*  
4 *Analyzer*. The results are summarized in Panel A of Page 6 of Exhibit JRW-14. I  
5 initially filtered the database and found that *Value Line* has 3-5 year EPS growth rate  
6 forecasts for 1,996 firms. The average projected EPS growth rate was 14.45%. This is  
7 high given that the average historical EPS growth rate in the U.S. is about 7%. A major  
8 factor seems to be that *Value Line* only predicts negative EPS growth for 56 companies.  
9 This is less than three percent of the companies covered by *Value Line*. Given the ups  
10 and downs of corporate earnings, this is unreasonable.

11 To put this figure in perspective, I screened the *Value Line* companies to see  
12 what percent of companies covered by *Value Line* had experienced negative EPS growth  
13 rates over the past five years. *Value Line* reported a five-year historic growth rate for  
14 2,147 companies. The results are shown in Panel B of page 6 of Exhibit JRW-14 and  
15 indicate that the average 5-year historic growth rate was 8.38%, and *Value Line* reported  
16 negative historic growth for 654 firms which represents 30.4% of these companies.

17 These results indicate that *Value Line*'s EPS forecasts are excessive and  
18 unrealistic. It appears that the analysts at *Value Line* are similar to their Wall Street  
19 brethren in that they are reluctant to forecast negative earnings growth.

20

21 **Q. DR. VANDER WEIDE HAS DEFENDED THE USE OF ANALYSTS' EPS**  
22 **FORECASTS IN HIS DCF MODEL BY CITING A STUDY HE PUBLISHED**  
23 **WITH DR. WILLARD CARLETON. PLEASE DISCUSS DR. VANDER**  
24 **WEIDE'S STUDY.**

25



1 A. Dr. Vander Weide cites the study on page 25 of his testimony. In the study, Dr.  
2 Vander Weide performs a linear regression of a company's stock price to earnings  
3 ratio (P/E) on the dividend yield payout ratio (D/E), alternative measures of growth  
4 (g), and four measures of risk (beta, covariance, r-squared, and the standard deviation  
5 of analysts' growth rate projections). He performed the study for three one-year  
6 periods – 1981-1982, and 1983 – and used a sample of approximately 65 companies.  
7 His results indicated that regressions measuring growth as analysts' forecasted EPS  
8 growth were more statistically significant than those using various historic measures  
9 of growth. Consequently, he concluded that analysts' growth rates are superior  
10 measures of expected growth.

11

12 **Q. PLEASE CRITIQUE DR. VANDER WEIDE'S STUDY.**

13 A. Before highlighting the errors in the study, it is important to note that the study was  
14 published twenty years ago, used a sample of only sixty-five companies, and  
15 evaluated a three-year time period (1981-83) that was over twenty-five years ago.  
16 Since that time, many more exhaustive studies have been performed using  
17 significantly larger data bases and, from these studies, much has been learned about  
18 Wall Street analysts and their stock recommendations and earnings forecasts.  
19 Nonetheless, there are several errors that invalidate the results of the study.

20

21 **Q. PLEASE DESCRIBE THE ERRORS IN DR. VANDER WEIDE'S STUDY.**

22 A. The primary error in the study is that his regression model is misspecified. As a  
23 result, he cannot conclude whether one growth rate measure is better than the other.  
24 The misspecification results from the fact that Dr. Vander Weide did not actually  
25 employ a modified version of the DCF model. Instead, he used a "linear

1 approximation.” He used the approximation so that he did not have to measure k,  
2 investors’ required return, directly; instead, he used some proxy variables for risk.  
3 The error in this approach is there can be an interaction between growth (g) and  
4 investors’ required return (k) which could lead him to conclude that one growth rate  
5 measure is superior to others. Furthermore, due to this problem, analysts’ EPS  
6 forecasts could be upwardly biased and still appear to provide better measures of  
7 expected growth.

8 There are other errors in the study as well that further invalidate the results.  
9 Dr. Vander Weide does not use both historic and analysts’ projections growth rate  
10 measures in the same regression to assess if both historic and forecasts should be used  
11 together to measure expected growth. In addition, he did not perform any tests to  
12 determine if the difference between historic and projected growth measures is  
13 statistically significant. Without such tests, he cannot make any conclusions about  
14 the superiority of one measure versus the other.

15  
16 **B. Risk Premium (“RP”) Approach**

17 **Q. PLEASE REVIEW DR. VANDER WEIDE'S RP ANALYSIS.**

18 A. On pages 30-38 of his testimony and in Exhibit No. \_\_\_(JWV-1), Schedules 1-4, Dr.  
19 Vander Weide develops an equity cost rate using expected (ex ante) and historical (ex  
20 post) RP models. Dr. Vander Weide’s RP results are provided in Panels C and D of  
21 Exhibit JRW-13. In his ex ante RP approach, Dr. Vander Weide computes an expected  
22 stock return by applying the DCF model to the S&P utilities and the S&P 500 and uses  
23 the EPS growth rate forecasts of Wall Street analysts as his growth rate. He then  
24 subtracts the yield on ‘A’ rated utility bonds. In his historic RP model, Dr. Vander  
25 Weide’s computes a historical risk premium as the difference in the arithmetic mean

1 stock and bond returns. The stock returns are computed for different time periods for  
2 several different indexes, including S&P and Moody's electric utility indexes as well  
3 as the S&P 500. Both his ex ante and ex post RP studies include an adjustment for  
4 flotation costs. His ex ante and ex post RP studies provide equity cost rates of 11.0%  
5 and 10.8%.

6 **Q. WHAT ARE THE ERRORS IN DR. VANDER WEIDE'S RP ANALYSES?**

7 A. The errors in Dr. Vander Weide's RP equity cost rate approaches include: (1) an inflated  
8 base interest rate; (2) excessive risk premiums in both the ex ante and ex post RP  
9 studies; and (3) the inclusion of flotation costs. The flotation cost issue is addressed  
10 later in the testimony. The other two issues are discussed below.

11  
12 **Q. PLEASE DISCUSS THE BASE YIELD OF DR. VANDER WEIDE'S RISK  
13 PREMIUM ANALYSES.**

14 A. The base yield in Dr. Vander Weide's RP analyses is the projected yield on 'A' rated  
15 utility bonds. There are two issues with his projected 6.15% 'A' rated utility bond  
16 yield. First, the yield is well above current market rates. As shown on Page 2 of  
17 Exhibit JRW-3, the current yield on long-term, 'A' rated public utility bonds is about  
18 4.5%. Second, Vander Weide's base yield is erroneous and inflates the required  
19 return on equity in two ways. First, long-term bonds are subject to interest rate risk, a  
20 risk which does not affect common stockholders since dividend payments (unlike  
21 bond interest payments) are not fixed but tend to increase over time. Second, the base  
22 yield in Dr. Vander Weide's risk premium study is subject to credit risk since it is not  
23 default risk-free like an obligation of the U.S. Treasury. As a result, its yield-to-  
24 maturity includes a premium for default risk and therefore is above its expected

1 return. Hence, using such a bond's yield-to-maturity as a base yield results in an  
2 overstatement of investors' return expectations.

3

4 **Q. DR. VANDER WEIDE EMPLOYS A DCF-BASED EX ANTE RISK**  
5 **PREMIUM APPROACH. PLEASE DISCUSS THE ERRORS IN THIS**  
6 **APPROACH.**

7 A. Dr. Vander Weide computes a DCF-based equity risk premium in Exhibit\_\_(JWV-1),  
8 Schedule 2. Dr. Vander Weide estimates an expected return using the DCF model and  
9 subtracts a concurrent measure of interest rates. The expected return is computed for  
10 utilities using the DCF model with analysts' EPS growth rate forecasts for the growth  
11 rate. Then Dr. Vander Weide employs 'A' rated utility yields as a measure of interest  
12 rates. From the results of his study, he concludes that an appropriate ex ante risk  
13 premium is 4.90%.

14 The primary error in this approach is the DCF-based or ex ante risk premium.  
15 This ex ante risk premium uses of the EPS growth rate forecasts of Wall Street  
16 analysts as the one and only measure of growth in the DCF model. This issue was  
17 previously addressed. In short, as I discuss and demonstrate in Appendix A, analysts'  
18 EPS growth rate forecasts are upwardly biased estimates of actual EPS growth for  
19 companies in general as well as for electric utilities.

20

21 **Q. PLEASE REVIEW DR. VANDER WEIDE'S EX POST OR HISTORIC RP**  
22 **STUDY.**

23 A. Dr. Vander Weide performs an ex-post or historical RP study that appears in  
24 Exhibit\_\_(JWV-1), Schedules 3 and 4. This study involves an assessment of the  
25 historical differences between S&P Public Utility Index and the S&P 500 stock returns

1 stocks and bonds. This change suggests that the equity risk premium has declined.

2

3 **Q. PLEASE DISCUSS THE PROBLEMS WITH USING HISTORIC STOCK**  
4 **AND BOND RETURNS TO ESTIMATE AN EQUITY RISK PREMIUM.**

5 A. There are a number of flaws in using historic returns over long time periods to  
6 estimate expected equity risk premiums. These issues include:

- 7 1) Biased historical bond returns
- 8 2) Use of the arithmetic versus the geometric mean return
- 9 3) The large error in measuring the equity risk premium using historical returns
- 10 4) Unattainable and biased historical stock returns
- 11 5) Company Survivorship bias
- 12 6) The "Peso Problem" - U.S. stock market survivorship bias

13 These issues will be addressed in order.

14

15 1) Biased Historical Bond Returns

16 **Q. HOW ARE HISTORICAL BOND RETURNS BIASED?**

17 A. An essential assumption of these studies is that over long periods of time, investors'  
18 expectations are realized. However, the experienced returns of bondholders in the past  
19 invalidate this critical assumption. Historic bond returns are biased downward as a  
20 measure of expectancy because of capital losses suffered by bondholders in the past. As  
21 such, risk premiums derived from this data are biased upwards.

22

23 2) The Arithmetic versus the Geometric Mean Return

24 **Q. PLEASE DISCUSS THE ISSUE RELATING TO THE USE OF THE**  
25 **ARITHMETIC VERSUS THE GEOMETRIC MEAN RETURNS IN THE**

1 and public utility bond returns over various time periods between the years 1937-2010.

2 From the results of his study, he concludes that an appropriate risk premium is 4.35%.

3

4 **Q. PLEASE ADDRESS THE ISSUES INVOLVED IN USING HISTORICAL**  
5 **STOCK AND BOND RETURNS TO COMPUTE A FORWARD-LOOKING OR**  
6 **EX ANTE RISK PREMIUM.**

7 A. Using the historical relationship between stock and bond returns to measure an ex  
8 ante equity risk premium is erroneous and, especially in this case, overstates the true  
9 market equity risk premium. The equity risk premium is based on expectations of the  
10 future. When past market conditions vary significantly from the present, historic data  
11 does not provide a realistic or accurate barometer of expectations of the future. Using  
12 historical returns to measure the ex ante equity risk premium ignores current market  
13 conditions and masks the change in the risk and return relationship between stocks  
14 and bonds. This change suggests that the equity risk premium has declined.

15

16 **Q. PLEASE ADDRESS THE ISSUES INVOLVED IN USING HISTORICAL**  
17 **STOCK AND BOND RETURNS TO COMPUTE A FORWARD-LOOKING OR**  
18 **EX ANTE RISK PREMIUM.**

19 A. Using the historical relationship between stock and bond returns to measure an ex  
20 ante equity risk premium is erroneous and, especially in this case, overstates the true  
21 market equity risk premium. The equity risk premium is based on expectations of the  
22 future and when past market conditions vary significantly from the present, historic  
23 data does not provide a realistic or accurate barometer of expectations of the future.  
24 Using historical returns to measure the ex ante equity risk premium ignores current  
25 market conditions and masks the change in the risk and return relationship between

1 **IBBOTSON METHODOLOGY.**

2 A. The measure of investment return has a significant effect on the interpretation of the  
 3 risk premium results. When analyzing a single security price series over time (i.e., a  
 4 time series), the best measure of investment performance is the geometric mean  
 5 return. Using the arithmetic mean overstates the return experienced by investors. In  
 6 a study entitled "Risk and Return on Equity: The Use and Misuse of Historical  
 7 Estimates," Carleton and Lakonishok make the following observation: "The  
 8 geometric mean measures the changes in wealth over more than one period on a buy  
 9 and hold (with dividends invested) strategy."<sup>33</sup> Since Dr. Vander Weide's historic  
 10 study covers more than one period (and he assumes that dividends are reinvested), he  
 11 should be employing the geometric mean and not the arithmetic mean.

12

13 **Q. PLEASE PROVIDE AN EXAMPLE DEMONSTRATING THE PROBLEM**  
 14 **WITH USING THE ARITHMETIC MEAN RETURN.**

15 A. To demonstrate the upward bias of the arithmetic mean, consider the following  
 16 example. Assume that you have a stock (that pays no dividend) that is selling for  
 17 \$100 today, increases to \$200 in one year, and then falls back to \$100 in two years.

18 The table below shows the prices and returns.

Time Period	Stock Price	Annual Return
0	\$100	
1	\$200	100%
2	\$100	-50%

19

20 The arithmetic mean return is simply  $(100\% + (-50\%))/2 = 25\%$  per year. The  
 21 geometric mean return is  $((2 * .50)^{(1/2)} - 1 = 0\%$  per year. Therefore, the arithmetic

<sup>33</sup> Willard T. Carleton and Josef Lakonishok, "Risk and Return on Equity: The Use and Misuse of Historical Estimates," *Financial Analysts Journal*, pp. 38-47, (January-February, 1985).

1 mean return suggests that your stock has appreciated at an annual rate of 25%, while  
2 the geometric mean return indicates an annual return of 0%. Since after two years,  
3 your stock is still only worth \$100, the geometric mean return is the appropriate  
4 return measure. For this reason, when stock returns and earnings growth rates are  
5 reported in the financial press, they are generally reported using the geometric mean.  
6 This is because of the upward bias of the arithmetic mean. As further evidence of the  
7 appropriate mean return measure, the SEC requires equity mutual funds to report  
8 historic return performance using geometric mean and not arithmetic mean returns.<sup>34</sup>  
9 Therefore, the historic arithmetic mean return measures are biased and should be  
10 disregarded.

11  
12 **Q. PLEASE PROVIDE ADDITIONAL INSIGHTS INTO THE DEBATE OVER**  
13 **THE USE OF THE ARITHMETIC VERSUS THE GEOMETRIC MEAN**  
14 **RETURN IN DEVELOPING AN EXPECTED MARKET RISK PREMIUM.**

15 A. In measuring historic returns to develop an expected equity risk premium, finance  
16 texts will often recommend the use of an arithmetic mean return as a measure of  
17 central tendency. A common justification for using the arithmetic mean return is that  
18 since annual stock returns are not serially correlated, the best measure of a return for  
19 next year is the arithmetic mean of past returns. On the other hand, Damodaran  
20 suggests that such an estimate is not appropriate in estimating an equity risk  
21 premium.<sup>35</sup>

22 “There are, however, strong arguments that can be made for the  
23 use of geometric averages. First, empirical studies seem to  
24 indicate that returns on stocks are negatively correlated over long  
25 periods of time. Consequently, the arithmetic average return is

---

<sup>34</sup> SEC, Form N-1A.

<sup>35</sup> Aswath. Damodaran, “A New “Risky” World Order: Unstable Risk Premiums - Implications for Practice”  
NUU Working Paper, 2010, p. 25.



1 likely to overstate the premium. Second, while asset pricing  
2 models may be single period models, the use of these models to  
3 get expected returns over long periods (such as five or ten years)  
4 suggests that the estimation period may be much longer than a  
5 year. In this context, the argument for geometric average  
6 premiums becomes stronger.”  
7

8

9

10

11

12

3) The Error in Measuring Equity Risk Premiums with Historic Data

13 **Q.**

**PLEASE DISCUSS THE ERROR IN MEASURING THE EQUITY RISK  
14 PREMIUM USING HISTORICAL STOCK AND BOND RETURNS.**

15 **A.**

Measuring the equity risk premium using historical stock and bond returns is subject to a  
16 substantial forecasting error. For example, the arithmetic mean long-term equity risk  
17 premium of approximately 6.5% has a standard deviation of over 20.0%. This may be  
18 interpreted in the following way with respect to the historical distribution of the long-  
19 term equity risk premium using a standard normal distribution and a 95%, +/- 2 standard  
20 deviation confidence interval: We can say, with a 95% degree of confidence, that the  
21 true equity risk premium is between -34.7% and +47.7%. As such, the historical equity  
22 risk premium is measured with a substantial amount of error.

23

24

4) Unattainable and Biased Historic Stock Returns

25 **Q.**

**YOU NOTE THAT HISTORIC STOCK RETURNS ARE BIASED USING  
26 THE IBBOTSON METHODOLOGY. PLEASE ELABORATE.**

27 **A.**

Returns developed using Ibbotson's methodology are computed on stock indexes and  
28 therefore: (1) cannot be reflective of expectations because these returns are unattainable

1 to investors and (2) produce biased results. This methodology assumes: (1) monthly  
2 portfolio rebalancing and (2) reinvestment of interest and dividends. Monthly portfolio  
3 rebalancing presumes that investors rebalance their portfolios at the end of each month  
4 in order to have an equal dollar amount invested in each security at the beginning of  
5 each month. The assumption generates high transaction costs and thereby renders these  
6 returns unattainable to investors. In addition, an academic study demonstrates that the  
7 monthly portfolio rebalancing assumption produces biased estimates of stock returns.<sup>36</sup>

8 Transaction costs themselves provide another bias in historic versus expected  
9 returns. In the past, the observed stock returns were not the realized returns of  
10 investors, due to the much higher transaction costs of previous decades. These higher  
11 transaction costs are reflected through the higher commissions on stock trades and the  
12 lack of low cost mutual funds like index funds.

13  
14 5) Company Survivorship Bias

15 **Q. HOW DOES COMPANY SURVIVORSHIP BIAS AFFECT THE HISTORIC**  
16 **EQUITY RISK PREMIUM?**

17 A. Using historic data to estimate an equity risk premium suffers from company  
18 survivorship bias. Company survivorship bias results when using returns from  
19 indexes like the S&P 500. The S&P 500 includes only companies that have survived.  
20 The fact that returns of firms that did not perform well were dropped from these  
21 indexes is not reflected. Therefore, these stock returns are upwardly biased because  
22 they only reflect the returns from more successful companies.

23  

---

<sup>36</sup> See Richard Roll, "On Computing Mean Returns and the Small Firm Premium," *Journal of Financial Economics*, pp. 371-86, (1983).

1           6) The “Peso Problem” - U.S. Stock Market Survivorship Bias

2   **Q.   WHAT IS THE “PESO PROBLEM,” AND HOW DOES IT RELATE TO**  
3   **SURVIVORSHIP BIAS IN U. S. STOCK MARKET RETURNS?**

4   A.   The use of historic return data also suffers from the so-called “Peso Problem,” which  
5   is also known as U.S. stock market survivorship bias. The “peso problem” issue was  
6   first highlighted by the Nobel laureate, Milton Friedman, and gets its name from  
7   conditions related to the Mexican peso market in the early 1970s. This issue involves  
8   the fact that past stock market returns were higher than were expected at the time  
9   because despite war, depression and other social, political, and economic events, the  
10   U.S. economy survived and did not suffer hyperinflation, invasion and/or the  
11   calamities of other countries. As such, highly improbable events, which may or may  
12   not occur in the future, are factored into stock prices, leading to seemingly low  
13   valuations. Higher than expected stock returns are then earned when these events do  
14   not subsequently occur. Therefore, the “peso problem” indicates that historic stock  
15   returns are overstated as measures of expected returns because the U.S. markets have  
16   not experienced the disruptions of other major markets around the world.

17

18   **Q.   DO YOU HAVE ANY OTHER THOUGHTS ON THE USE OF HISTORICAL**  
19   **RETURN DATA TO ESTIMATE AN EQUITY RISK PREMIUM?**

20   A.   Yes. Jay Ritter, a Professor of Finance at the University of Florida, identified the use  
21   of historical stock and bond return data to estimate a forward-looking equity risk  
22   premium as one of the “Biggest Mistakes” taught by the finance profession.<sup>37</sup> His  
23   argument is based on the theory behind the equity risk premium, the excessive results  
24   produced by historical returns, and the previously-discussed errors such as

---

<sup>37</sup> Jay Ritter, “The Biggest Mistakes We Teach,” *Journal of Financial Research* (Summer 2002).

1 survivorship bias in historical data.

2

3 **C. CAPM Approach**

4 **Q. PLEASE DISCUSS DR. VANDER WEIDE'S CAPM.**

5 A. On pages 38-46 of his testimony and in Exhibit No. \_\_\_(JVW-1), Schedules 5-8, Dr.  
6 Vander Weide develops an equity cost rate using the CAPM and two different market  
7 risk premium approaches. Dr. Vander Weide's CAPM results are provided in Panels  
8 E and F of Exhibit JRW-13. Dr. Vander Weide estimates equity cost rates of 10.7%  
9 using his expected CAPM and 9.20% using his historical CAPM approach. He elects  
10 to not recommend the use of the CAPM results due to the notion that the CAPM  
11 underestimates the equity cost rate for companies such as utilities that have betas less  
12 than 1.0.

13

14 **Q. WHAT ARE THE ERRORS IN DR. VANDER WEIDE'S CAPM ANALYSIS?**

15 A. There are three flaws with Dr. Vander Weide's CAPM analysis: (1) his risk-free rate of  
16 4.45%; (2) the historic and expected market risk premiums; and (3) the flotation cost  
17 adjustment. The flotation cost adjustment is discussed later in the testimony. The other  
18 issues are addressed below.

19

20 **Q. PLEASE DISCUSS DR. VANDER WEIDE'S RISK-FREE RATE OF INTEREST**  
21 **IN HIS CAPM.**

22 A. Dr. Vander Weide uses a risk-free rate of interest of 4.45% in his CAPM. This well in  
23 excess of the current yield on long-term Treasury bonds, which is less than 3.0%

24

1 **Q. PLEASE ADDRESS THE PROBLEMS WITH DR. VANDER WEIDE'S**  
2 **HISTORIC CAPM.**

3 A. Dr. Vander Weide's historical CAPM uses an equity risk premium of 6.7%, which is  
4 based on the difference between the arithmetic mean stock and bond income returns  
5 over the 1926-2010 period. The errors associated with computing an expected equity  
6 risk premium using historical stock and bond returns were addressed at length earlier  
7 in my testimony. In short, there is a myriad of empirical problems, which result in  
8 historical market returns producing inflated estimates of expected risk premiums.  
9 Among the errors are the U.S. stock market survivorship bias (the 'Peso Problem'),  
10 the company survivorship bias (only successful companies survive – poor companies  
11 do not survive), and unattainable return bias (the Ibbotson procedure presumes  
12 monthly portfolio rebalancing). In addition, in this case, Dr. Vander Weide has  
13 compounded the error by using the bond income return and not the actual bond  
14 return. By omitting the price change component of the bond return, he has magnified  
15 the historic risk premium by not matching the returns on stock with the actual returns  
16 on bonds.

17

18 **Q. PLEASE REVIEW THE ERRORS IN DR. VANDER WEIDE'S EQUITY OR**  
19 **MARKET RISK PREMIUM IN HIS EXPECTED CAPM APPROACH.**

20 A. Dr. Vander Weide develops an expected equity risk premium for his CAPM of 8.85% in  
21 Exhibit No. \_\_\_(JVW-1), Schedule 8 by applying the DCF model to the S&P 500. Dr.  
22 Vander Weide estimates an expected market return of 13.3% using a dividend yield  
23 of 2.7% and an expected DCF growth rate of 10.6%. The most significant error with  
24 this approach is that the expected DCF growth rate is the projected 5-year EPS  
25 growth rate for the companies in the S&P 500 as reported by I/B/E/S. As explained

1 below, this produces an overstated expected market return and equity risk premium.

2

3 **Q. PLEASE REVIEW DR. VANDER WEIDE'S EQUITY OR MARKET RISK**  
4 **PREMIUM IN HIS CAPM APPROACH.**

5 A. The primary problem with Dr. Vander Weide's CAPM analysis is the size of the market  
6 or equity risk premium. Dr. Vander Weide develops an expected market risk premium  
7 of 8.85% by: (1) applying the DCF model to the S&P 500 to get an expected market  
8 return; and (2) subtracting the risk-free rate of interest. Dr. Vander Weide's estimated  
9 market return of 13.3% for the S&P 500 equals the sum of the dividend yield of 2.7%  
10 and expected EPS growth rate of 10.6%. The expected EPS growth rate is the  
11 average of the expected EPS growth rates from I/B/E/S. The primary error in this  
12 approach is his expected DCF growth rate. As previously discussed, the expected  
13 EPS growth rates of Wall Street analysts are upwardly biased. Therefore, as  
14 explained below, this produces an overstated expected market return and equity risk  
15 premium.

16

17 **Q. BEYOND YOUR PREVIOUS DISCUSSION OF THE UPWARD BIAS IN**  
18 **WALL STREET ANALYSTS' EPS GROWTH RATE FORECASTS, WHAT**  
19 **OTHER EVIDENCE CAN YOU PROVIDE TO DEMONSTRATE THAT DR.**  
20 **VANDER WEIDE'S S&P 500 GROWTH RATE IS EXCESSIVE?**

21 A. A long-term EPS growth rate of 10.6% is not consistent with historic as well as  
22 projected economic and earnings growth in the U.S for several reasons: (1) Dr.  
23 Vander Weide's projected EPS growth rate of 10.6% is almost double long-term EPS  
24 and economic growth, as measured by GDP; (2) more recent trends in GDP growth,

1 as well as projections of GDP growth, suggest slower economic and earnings growth  
2 in the future; and (3) over time, EPS growth tends to lag behind GDP growth.

3 The long-term economic, earnings, and dividend growth rate in the U.S. has  
4 only been in the 5% to 7% range. I performed a study of the growth in nominal GDP,  
5 S&P 500 stock price appreciation, and S&P 500 EPS and DPS growth since 1960.  
6 The results are provided on page 1 of Exhibit JRW-15, and a summary is given in the  
7 table below.

8  
9  
10  
11 **GDP, S&P 500 Stock Price, EPS, and DPS Growth**  
12 **1960-Present**

<b>Nominal GDP</b>	<b>6.94%</b>
<b>S&amp;P 500 Stock Price Appreciation</b>	<b>6.34%</b>
<b>S&amp;P 500 EPS</b>	<b>6.81%</b>
<b>S&amp;P 500 DPS</b>	<b>5.04%</b>
<b>Average</b>	<b>6.28%</b>

13  
14 These results indicate that historically the long-run growth rate for GDP, S&P  
15 EPS, and S&P DPS in the 5% to 7% range. By comparison, Dr. Vander Weide's  
16 long-run growth rate projection of 10.6% is overstated. These estimates suggest that  
17 companies in the U.S. would be expected to: (1) increase their growth rate of EPS by  
18 almost 100% in the future and (2) maintain that growth indefinitely in an economy  
19 that is expected to grow at about one-half of his projected growth rates.

20  
21 **Q. DO MORE RECENT DATA SUGGEST THAT THE U.S. ECONOMY**  
22 **GROWTH IS FASTER OR SLOWER THAN THE LONG-TERM DATA?**

1 A. The more recent trends suggest that future economic growth will be lower than the long-  
2 term historic GDP growth. The historic GDP growth rates for 10-, 20-, 30-, 40- and 50-  
3 years are presented in Panel A of page 2 of Exhibit JRW-15. These figures clearly  
4 suggest that GDP growth in recent decades has slowed and that a figure in the range of  
5 4.0% to 5.0% is more appropriate today for the U.S. economy. These figures indicate  
6 that Dr. Vander Weide's long-term growth EPS growth rate of 10.6% is inflated.

7

8 **Q. WHAT LEVEL OF GDP GROWTH IS FORECASTED BY ECONOMISTS AND**  
9 **VARIOUS GOVERNMENT AGENCIES?**

10 A. There are several forecasts of annual GDP growth that are available from economists  
11 and government agencies. These are listed in Panel B of page 2 of Exhibit JRW-15.  
12 The mean 10-year nominal GDP growth forecast (as of February 2011) by economists in  
13 the recent *Survey of Professional Forecasters* is 5.2%. The Energy Information  
14 Administration (EIA), in its projections used in preparing *Annual Energy Outlook*,  
15 forecasts long-term GDP growth of 4.8% for the period 2009-2035. The  
16 Congressional Budget Office, in its forecasts for the period 2010 to 2021, projects a  
17 nominal GDP growth rate of 5.6%. As such, projections of nominal GDP growth  
18 provide additional evidence that Dr. Vander Weide's long-term EPS growth rate of  
19 10.6% is overstated.

20

21 **Q. PLEASE HIGHLIGHT THE RECENT RESEARCH ON THE LINK**  
22 **BETWEEN ECONOMIC AND EARNINGS GROWTH AND EQUITY**  
23 **RETURNS.**

24 A. Brad Cornell of the California Institute of Technology recently published a study on  
25 GDP growth, earnings growth, and equity returns. He finds that long-term EPS



1 growth in the U.S. is directly related GDP growth, with GDP growth providing an  
2 upward limit on EPS growth. In addition, he finds that long-term stock returns are  
3 determined by long-term earnings growth. He concludes with the following  
4 observations:<sup>38</sup>

5 “The long-run performance of equity investments is  
6 fundamentally linked to growth in earnings. Earnings growth, in  
7 turn, depends on growth in real GDP. This article demonstrates  
8 that both theoretical research and empirical research in  
9 development economics suggest relatively strict limits on future  
10 growth. In particular, real GDP growth in excess of 3 percent in  
11 the long run is highly unlikely in the developed world. In light of  
12 ongoing dilution in earnings per share, this finding implies that  
13 investors should anticipate real returns on U.S. common stocks to  
14 average no more than about 4–5 percent in real terms.”  
15

16 Given current inflation in the 2% to 3% range, the results imply nominal  
17 expected stock market returns in the 6% to 8% range. As such, Dr. Vander Weide’s  
18 projected earnings growth rates and implied expected stock market returns are not  
19 indicative of the realities of the U.S. economy and stock market.  
20

21 **Q. PLEASE PROVIDE A SUMMARY ASSESSMENT OF DR. VANDER WEIDE’S**  
22 **EQUITY RISK PREMIUMS DERIVED FROM EXPECTED MARKET**  
23 **RETURNS.**

24 A. Dr. Vander Weide’s equity risk premium of 8.85% derived from his expected market  
25 return of 13.3% is not reflective of the risk premiums used in the real world of finance.  
26 Investment banks, analysts, companies, consulting firms, and CFOs use the equity risk  
27 premium concept every day in making financing, investment, and valuation decisions. I  
28 provided the results of over thirty academic studies and recent surveys of these financial  
29 professionals. These equity risk premium estimates are in the 4% to 5% range and not in

---

<sup>38</sup> Bradford Cornell, “Economic Growth and Equity Investing,” *Financial Analysts Journal* (January- February, 2010), p. 63.

1 the 8%-10% range. On this issue, the opinions of CFOs are especially relevant. CFOs  
2 deal with capital markets on an ongoing basis since they must continually assess and  
3 evaluate capital costs for their companies. They are well aware of the historical equity  
4 risk premium results as published by Ibbotson Associates as well as Wall Street  
5 analysts' projections. Nonetheless, the CFOs in the September 2011 *CFO Magazine* –  
6 Duke University Survey of almost 500 CFOs shows an expected equity risk premium  
7 of 4.2% over the next ten years. In addition, surveys conducted in 2011 by Fernandez  
8 indicate that financial analysts and companies are using equity risk premiums of about  
9 5.0%. As such, using these real world equity risk premiums, the appropriate equity  
10 cost rate for Gulf Power Company should be in the 8.0% to 9.0% range and not in the  
11 11.0% range.

12 **D. Flotation Costs**

13 **Q. PLEASE DISCUSS DR. VANDER WEIDE'S ADJUSTMENT FOR FLOTATION**  
14 **COSTS.**

15 A. Dr. Vander Weide claims that an upward adjustment to the equity cost rate is  
16 warranted for flotation costs. This adjustment factor is erroneous for several reasons.  
17 First, he has not identified any actual flotation costs for the Company. Therefore, the  
18 Company is requesting annual revenues in the form of a higher return on equity for  
19 flotation costs that have not been identified. Second, it is commonly argued that a  
20 flotation cost adjustment (such as that used by the Company) is necessary to prevent  
21 the dilution of the existing shareholders. In this case, Dr. Vander Weide justifies a  
22 flotation cost adjustment by referring to bonds and the manner in which issuance  
23 costs are recovered by including the amortization of bond flotation costs in annual  
24 financing costs. However, this is incorrect for several reasons:

1 (1) If an equity flotation cost adjustment is similar to a debt flotation cost  
2 adjustment, the fact that the market-to-book ratios for electric utility companies are  
3 over 1.3X actually suggests that there should be a flotation cost reduction (and not  
4 increase) to the equity cost rate. This is because when (a) a bond is issued at a price  
5 in excess of face or book value, and (b) the difference between market price and the  
6 book value is greater than the flotation or issuance costs, the cost of that debt is lower  
7 than the coupon rate of the debt. The amount by which market values of electric  
8 utility companies are in excess of book values is much greater than flotation costs.  
9 Hence, if common stock flotation costs were exactly like bond flotation costs, and  
10 one was making an explicit flotation cost adjustment to the cost of common equity,  
11 the adjustment would be downward;

12 (2) If a flotation cost adjustment is needed to prevent dilution of existing  
13 stockholders' investment, then the reduction of the book value of stockholder  
14 investment associated with flotation costs can occur only when a company's stock is  
15 selling at a market price at/or below its book value. As noted above, electric utility  
16 companies are selling at market prices well in excess of book value. Hence, when  
17 new shares are sold, existing shareholders realize an increase in the book value per  
18 share of their investment, not a decrease;

19 (3) Flotation costs consist primarily of the underwriting spread or fee and not out-  
20 of-pocket expenses. On a per share basis, the underwriting spread is the difference  
21 between the price the investment banker receives from investors and the price the  
22 investment banker pays to the company. Hence, these are not expenses that must be  
23 recovered through the regulatory process. Furthermore, the underwriting spread is  
24 known to the investors who are buying the new issue of stock, who are well aware of  
25 the difference between the price they are paying to buy the stock and the price that the

1 Company is receiving. The offering price which they pay is what matters when  
2 investors decide to buy a stock based on its expected return and risk prospects.  
3 Therefore, the company is not entitled to an adjustment to the allowed return to  
4 account for those costs; and

5 (4) Flotation costs, in the form of the underwriting spread, are a form of a  
6 transaction cost in the market. They represent the difference between the price paid  
7 by investors and the amount received by the issuing company. Whereas the Company  
8 believes that it should be compensated for these transaction costs, it has not accounted  
9 for other market transaction costs in determining a cost of equity for the Company.  
10 Most notably, brokerage fees that investors pay when they buy shares in the open  
11 market are another market transaction cost. Brokerage fees increase the effective  
12 stock price paid by investors to buy shares. If the Company had included these  
13 brokerage fees or transaction costs in its DCF analysis, the higher effective stock  
14 prices paid for stocks would lead to lower dividend yields and equity cost rates. This  
15 would result in a downward adjustment to their DCF equity cost rate.

16  
17 **E. Leverage Adjustment**

18 **Q. PLEASE REVIEW DR. VANDER WEIDE'S LEVERAGE ADJUSTMENT.**

19 A. Dr. Vander Weide has added a leverage adjustment of 90 basis points to the estimated  
20 equity cost rates that he estimated using the DCF, RP, and CAPM approaches. Dr.  
21 Vander Weide claims that this is needed since (1) market values are greater than book  
22 values for utilities and (2) the overall rate of return is applied to a book value  
23 capitalization in the ratemaking process. This adjustment is unwarranted for the  
24 following reasons:

25 (1) The market value of a firm's equity exceeds the book value of equity when the

1 firm is expected to earn more on the book value of investment than investors require.  
2 This relationship is described very succinctly in the Harvard Business School case study  
3 which I quote earlier in my testimony. As such, the reason that market values exceed  
4 book values is that the company is earning a return on equity in excess of its cost of  
5 equity;

6 (2) Despite Dr. Vander Weide's contention that this represents a leverage  
7 adjustment, there is no change in leverage. There is no need for a leverage adjustment  
8 since there is no change in leverage. The Company's financial statements and fixed  
9 financial obligations remain the same;

10 (3) Financial publications and investment firms report capitalizations on a book  
11 value and not a market value basis; and

12 (4) Dr. Vander Weide has presented his leverage adjustment in many rate cases  
13 before many regulatory commissions. In response OPC interrogatories, Dr. Vander  
14 Weide indicated that he: (1) has testified in over 400 cases before regulatory  
15 commissions; and (2) had been recommending the leverage adjustment to his cost of  
16 equity since the early 1990s. However, he could not identify any proceeding in which  
17 he has testified in which the regulatory commission had adopted his leverage  
18 adjustment.

19

20 **Q. PLEASE EXPLAIN WHY YOU BELIEVE THAT REGULATORY**  
21 **COMMISSIONS HAVE REJECTED DR. VANDER WEIDE'S LEVERAGE**  
22 **ADJUSTMENT?**

23 A. I believe that Dr. Vander Weide's leverage adjustment has been rejected by  
24 regulatory commissions because it increases the ROEs for utilities that have high  
25 returns on common equity and decreases the ROEs for utilities that have low returns

1 on common equity.

2 In the graphs presented in Exhibit JRW-6, I have demonstrated that there is a  
3 strong positive relationship between expected returns on common equity and market-to-  
4 book ratios for public utilities. Hence, in the context of Dr. Vander Weide's leverage  
5 adjustment, this means that: (1) for a utility with a relatively high market-to-book ratio  
6 (e.g., 2.5) and ROE (e.g., 12.0%), the leverage adjustment will increase the estimated  
7 equity cost rate, while (2) for a utility with a relatively low market-to-book ratio (e.g.,  
8 0.5) and ROE (e.g., 5.0%), the leverage adjustment will decrease the estimated equity  
9 cost rate. Therefore, the adjustment will result in even higher market-to-book ratios for  
10 utilities with relatively high ROEs and even lower market-to-book ratios for utilities  
11 with relatively low ROEs.

12 **VIII. PARENT DEBT ADJUSTMENT**

13  
14 **Q. PLEASE REVIEW THE COMMISSION'S POLICY REGARDING THE**  
15 **PARENT DEBT ADJUSTMENT TO REDUCE A UTILITY'S INCOME TAX**  
16 **EXPENSE RELATED TO ITS PARENT COMPANY'S DEBT.**

17 **A.** Rule 25-14.004, F.A.C., provides that "the income tax expense of a regulated  
18 company shall be adjusted to reflect the income tax expense of the parent debt that  
19 may be invested in the equity of the subsidiary where a parent-subsidiary relationship  
20 exists and the parties to the relationship join in the filing of a consolidated income tax  
21 return." Further, Rule 25-14.004(3), F.A.C., states that "it shall be a rebuttable  
22 presumption that a parent's investment in any subsidiary or in its own operations shall  
23 be considered to have been made in the same ratios as exist in the parent's overall  
24 capital structure."

1 In several recent cases, the Commission has found that the companies have  
 2 not effectively rebutted the presumption that the parent debt adjustment should be  
 3 applied.<sup>39</sup> In ruling that a parent debt adjustment was required in a case involving  
 4 Indiantown Company, Inc., the Commission stated:

5 Based on our analysis, the rule requires that a parent debt  
 6 adjustment be made in this proceeding. Further, the rule does not  
 7 allow for specific identification of debt from the parent to the  
 8 subsidiary utility. Since the utility is included in the consolidated  
 9 income tax returns of the parent, we believe that it would be very  
 10 difficult to prove specific identification to only the utility. Rule 25-  
 11 14.004(3), Florida Administrative Code, states that it shall be a  
 12 rebuttable presumption that a parent's investment in any subsidiary  
 13 or in its own operations shall be considered to have been made in  
 14 the same ratios as exist in the parent's overall capital structure.<sup>40</sup>

15 Additionally, in the most recent Progress Energy Florida rate case, the  
 16 Commission found that PEF had not demonstrated that the investment made by  
 17 Progress Energy in PEF could be attributed to any source other than the general funds  
 18 of the parent and that PEF did not meet its burden of proof to demonstrate its claim  
 19 that all contributions made and expected to be made by Progress Energy to PEF in  
 20 2009 and 2010 would be from funds generated from common equity issuances at  
 21 Progress Energy.<sup>41</sup>

22  
 23 **Q. PLEASE PROVIDE YOUR ASSESSMENT OF GULF'S POSITION ON THE**  
 24 **PARENT DEBT ADJUSTMENT.**

25 A. Gulf witness Mr. Teel claims that the Parent Debt Adjustment should not be made in  
 26 this case. He makes two arguments: (1) The parent debt adjustment was not an issue

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<sup>39</sup> See Order No. PSC-09-0411-FOF-GU, page 38, issued June 9, 2009, in Docket No. O80318-GU, In re: Petition for rate increase by Peoples Gas System; Order No. PSC-09-0283-FOF-EI, issued April 30, 2009 in Docket No. 080317-EI, In re: Petition for rate increase by Tampa Electric Company.

<sup>40</sup> See Order No. PSC-OO-2054-PAA-WS, issued October 27, 2000, in Docket No. 990939-WS, In re: Application for rate increase in Martin County by Indiantown Company, Inc.

<sup>41</sup> See Order No. PSC-10-0131-FOF-EI, issued March 5, 2010, in Docket No. 090079-EI, In re: Petition for increase in rates by Progress Energy Florida, Inc.

1 in the Company's last rate case; and (2) since the last rate case, Gulf Power has paid  
2 more in dividends to Southern than Southern has invested in capital contributions to  
3 Gulf Power.

4 The fact that the order in Gulf's last rate case was silent on the subject of a  
5 parent debt adjustment provides no support for Gulf's position in this current case.  
6 The parent debt adjustment applies unless Gulf can overcome the rebuttable  
7 presumption that the rule creates. In this regard, Mr. Teel says that Gulf sent more  
8 dividends to Southern Company over a period of years than the amount of equity that  
9 Southern invested in Gulf. The fallacy in this reasoning is that it is impossible to  
10 "trace dollars" (i.e., attribute particular monies to certain sources of funds). Further,  
11 as shown in Schedule D-2, the capital structure of Southern Company, after the  
12 elimination of subsidiary debt, has debt outstanding on an ongoing basis. Therefore,  
13 in the absence of an all equity capital structure at the parent level, a PDA is  
14 appropriate for Gulf Power.

15  
16 **Q. PLEASE SUMMARIZE YOUR RECOMMENDATION ON THE PARENT**  
17 **DEBT ADJUSTMENT.**

18 A. Given the Commission's recent decisions in dockets involving Tampa Electric,  
19 People's Gas and Progress Energy Florida, the existence of debt in Southern  
20 Company's capital structure, and the impossibility of tracing funds to specific equity  
21 issuances, a parent debt adjustment is appropriate in this case.

22  
23  
24 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

25 A. Yes.



1 BY MR. MCGLOTHLIN:

2 Q. Dr. Woolridge, please summarize your testimony  
3 for the Commissioners.

4 A. Good morning, Commissioners. My summary  
5 focuses on the appropriate return on equity for Gulf and  
6 discusses the most significant ROE issues in this  
7 proceeding.

8 In my opinion, under current market  
9 conditions, the appropriate ROE for Gulf is  
10 9.25 percent. In contrast, Gulf witness  
11 Dr. Vander Weide has proposed a common equity cost rate  
12 of 11.7 percent.

13 According to the DCF model, the equity cost  
14 rate is computed as the dividend yield plus the expected  
15 long-term growth rate. There are two issues with this.  
16 The first issue is the DCF dividend yield adjustment.  
17 I've adjusted the dividend, the amount of the annual  
18 dividend by one-half the annual growth rate. This is  
19 because companies tend to increase their dividends at  
20 different times during the year. This is the approach  
21 employed by FERC in its application of the DCF model.

22 In contrast, Dr. Vander Weide uses a model in  
23 which each quarterly dividend is compounded at the end  
24 of the year by the long-term growth rate. This approach  
25 duplicates the compounding processes in the DCF model,

1 and therefore overstates investors' required return.

2 The second issue is the DCF growth rate. To  
3 estimate the DCF growth rate, I have reviewed Value  
4 Line's projections for earnings, dividends, and book  
5 value per share, as well as sustainable growth. I've  
6 also used the EPS growth rates, the earnings per share  
7 growth rates of Wall Street analysts. Where I've used a  
8 variety of growth rate measures, Dr. Vander Weide has  
9 relied exclusively on one growth rate indicator, that  
10 being the projected earnings per share growth rates of  
11 Wall Street analysts.

12 There's a serious error in this approach. As  
13 I document in my testimony, a number of studies have  
14 evaluated the accuracy of the long-term earnings per  
15 share growth rate forecasts of Wall Street analysts.  
16 And I want to emphasize, these are the long-term growth  
17 rate forecasts, not the forecasts of quarterly and  
18 annual earnings. The results of the studies are  
19 unanimous. As summarized in the 2010 study by McKinsey,  
20 the long-term growth rate forecasts of Wall Street  
21 analysts have been persistently overoptimistic for the  
22 past 25 years, with estimates ranging from 10 to  
23 12 percent compared to actual earnings growth of  
24 6 percent. As such, relying exclusively on the  
25 long-term earnings per share growth rates of Wall Street

1 analysts produces an upwardly biased DCF growth rate.

2 The risk premium and CAPM approaches require  
3 an estimate of the base interest rate and equity risk  
4 premium. Dr. Vander Weide employs base interest rates  
5 that are well above current market rates. For example,  
6 Dr. Vander Weide uses a long-term A-rated bond yield of  
7 6.11 percent. The current yield on long-term A-rated  
8 utility bonds is 4.5 percent.

9 Dr. Vander Weide and I also disagree on the  
10 measurement and the magnitude of the equity risk  
11 premium. I demonstrate that Dr. Vander Weide's historic  
12 and projected equity risk premiums are excessive and  
13 include unrealistic assumptions of economic and earnings  
14 growth as well as stock returns. For example,  
15 Dr. Vander Weide's expected market risk premium presumes  
16 a long-term stock market return of 13.3 percent. This  
17 is simply unrealistic. In fact, as I point out in my  
18 testimony, Dr. Vander Weide's equity risk premiums are  
19 well above the equity risk premiums used in the real  
20 world of finance, as indicated by surveys of CFOs,  
21 companies, and economists.

22 Dr. Vander Weide's recommended ROE includes a  
23 leverage adjustment of 90 basis points. The problem  
24 with this is that financial publications and investment  
25 firms report capitalizations on a book value basis and

1 not on a market value basis. As I show in my discussion  
2 of the capital structure, the book value capitalizations  
3 of my proxy group and Gulf are very similar. In fact,  
4 there is no change in leverage, because Gulf's financial  
5 statements and their financial obligations remain the  
6 same.

7 Furthermore, as I indicate, the leverage  
8 adjustment has not really been adopted by other state  
9 regulatory commissions. Therefore, in summary, it's my  
10 belief that the leverage adjustment is inappropriate in  
11 this proceeding as well.

12 MR. MCGLOTHLIN: With several seconds to  
13 spare, Dr. Woolridge is available for  
14 cross-examination.

15 CHAIRMAN GRAHAM: And that is very well  
16 appreciated.

17 Intervenors, anything?

18 Staff?

19 MR. YOUNG: No questions.

20 CHAIRMAN GRAHAM: Commissioners?

21 Redirect.

22 MR. MCGLOTHLIN: No redirect.

23 CHAIRMAN GRAHAM: Thank you, Dr. Woolridge.

24 MR. MCGLOTHLIN: OPC moves Exhibits 52 through  
25 65 inclusive and the errata sheet, which is 208.

1 CHAIRMAN GRAHAM: We'll move 52 through 65  
2 into the record, and also Exhibit 208.

3 (Exhibit Numbers 52 through 65 and 208 were  
4 admitted into the record.)

5 CHAIRMAN GRAHAM: I think it's an opportune  
6 time to take a 10-minute break for the court  
7 reporter. We'll be back here at 35 after.

8 (Recess from 11:24 a.m. to 11:35 a.m.)

9 (Transcript continues in sequence in  
10 Volume 10.)

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CERTIFICATE OF REPORTER


STATE OF FLORIDA:

COUNTY OF LEON:

I, MARY ALLEN NEEL, Registered Professional Reporter, do hereby certify that the foregoing proceedings were taken before me at the time and place therein designated; that my shorthand notes were thereafter translated under my supervision; and the foregoing pages numbered 1524 through 1736 are a true and correct record of the aforesaid proceedings.

I FURTHER CERTIFY that I am not a relative, employee, attorney or counsel of any of the parties, nor relative or employee of such attorney or counsel, or financially interested in the foregoing action.

DATED THIS 18th day of December, 2011.

  
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