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BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

DOCKET NO. 130040-EI

PETITION FOR RATE INCREASE  
BY TAMPA ELECTRIC COMPANY.  
\_\_\_\_\_ /

VOLUME 7

Pages 1206 through 1436

PROCEEDINGS: HEARING

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

DATE: Monday, September 9, 2013

TIME: Commenced at 9:37 a.m.  
Concluded at 10:01 a.m.PLACE: Betty Easley Conference Center  
Room 148  
4075 Esplanade Way  
Tallahassee, FloridaREPORTED BY: LINDA BOLES, CRR, RPR  
Official FPSC Reporter  
(850) 413-6734

APPEARANCES: (As heretofore noted.)

## I N D E X

## WITNESSES

NAME:	PAGE NO.
RICHARD A. BAUDINO Prefiled Direct Testimony Inserted	1210
STEPHEN J. BARON Prefiled Direct Testimony Inserted	1259
LANE KOLLEN Prefiled Direct Testimony Inserted	1300
WILLIAM B. McNULTY Prefiled Direct Testimony Inserted	1333
JEFFERY A. SMALL Prefiled Direct Testimony Inserted	1345
KAREN LEWIS Prefiled Rebuttal Testimony Inserted	1351
TERRY DEASON Prefiled Rebuttal Testimony Inserted	1370

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EXHIBITS

NUMBER: ID. ADMTD.

\*\*\*NO EXHIBITS MARKED OR ADMITTED IN THIS VOLUME\*\*\*

P R O C E E D I N G S

(Transcript follows in sequence from  
Volume 6.)

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## I. QUALIFICATIONS AND SUMMARY

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

2 A. My name is Richard A. Baudino. My business address is J. Kennedy and Associates,  
3 Inc. ("Kennedy and Associates"), 570 Colonial Park Drive, Suite 305, Roswell,  
4 Georgia 30075.

5 **Q. What is your occupation and by whom are you employed?**

6 A. I am a consultant with Kennedy and Associates.

7 **Q. Please describe your education and professional experience.**

8 A. I received my Master of Arts degree with a major in Economics and a minor in  
9 Statistics from New Mexico State University in 1982. I also received my Bachelor  
10 of Arts Degree with majors in Economics and English from New Mexico State in  
11 1979.

12

13 I began my professional career with the New Mexico Public Service Commission  
14 Staff in October 1982 and was employed there as a Utility Economist. During my  
15 employment with the Staff, my responsibilities included the analysis of a broad range  
16 of issues in the ratemaking field. Areas in which I testified included cost of service,  
17 rate of return, rate design, revenue requirements, analysis of sale/leasebacks of  
18 generating plants, utility finance issues, and generating plant phase-ins.

19 In October 1989, I joined the utility consulting firm of Kennedy and Associates as a  
20 Senior Consultant where my duties and responsibilities covered substantially the

1 same areas as those during my tenure with the New Mexico Public Service  
2 Commission Staff. I became Manager in July 1992 and was named Director of  
3 Consulting in January 1995. Currently, I am a consultant with Kennedy and  
4 Associates.

5

6 Exhibit No. \_\_\_\_ (RAB-1) summarizes my expert testimony experience.

7 **Q. On whose behalf are you testifying?**

8 A. I am testifying on behalf of the WCF Hospital Utility Alliance ("HUA").

9 **Q. What is the purpose of your Direct Testimony?**

10 A. The purpose of my direct testimony is to address the allowed return on equity and  
11 capital structure for ratemaking purposes for Tampa Electric Company ("Tampa  
12 Electric" or "Company").

13 **Q. Please summarize your Direct Testimony.**

14 A. I recommend that the Florida Public Service Commission ("Commission") approve a  
15 rate of return on equity ("ROE") for Tampa Electric of 9.30%. This  
16 recommendation is based on the results from my Discounted Cash Flow ("DCF")  
17 analyses for a comparison group of electric companies that has similar bond ratings  
18 to Tampa Electric. I also employed the Capital Asset Pricing Model ("CAPM"), but  
19 did not directly incorporate the results into my recommendation. In my opinion, a  
20 return on equity of 9.30% is a reasonable, even generous, estimate of the required  
21 return on equity for an electric company such as Tampa Electric. As I will

1 demonstrate in the following sections of my testimony, the market evidence I have  
2 examined supports my ROE recommendation.

3 I also recommend that the Commission reject the return on equity recommendation  
4 of 11.25% of Mr. Robert Hevert, witness for Tampa Electric. As I will demonstrate  
5 in Section IV of my Direct Testimony, Mr. Hevert's analyses systematically overstate  
6 the current investor required ROE for Tampa Electric.

7 **Q. What exhibits are you sponsoring as a part of your Direct Testimony?**

8 **A.** I am sponsoring the following exhibits as a part of my Direct Testimony:

9 Exhibit No. \_\_\_(RAB-1) - Resume and Testimony Experience of Richard A Baudino

10 Exhibit No. \_\_\_(RAB-2) - Historical Bond Yields

11 Exhibit No. \_\_\_(RAB-3) - FOMC June 19, 2013 Press Release

12 Exhibit No. \_\_\_(RAB-4) - Historical Daily VIX Values

13 Exhibit No. \_\_\_(RAB-5) - Excerpts from TECO Energy Dec. 31, 2012 SEC 10-K

14 Exhibit No. \_\_\_(RAB-6) - Excerpts from TECO Energy Investor Presentations

15 Exhibit No. \_\_\_(RAB-7) - Tampa Electric Discovery Responses

16 Exhibit No. \_\_\_(RAB-8) - Comparison Group Dividend Yield Calculations

17 Exhibit No. \_\_\_(RAB-9) - Comparison Group Growth and DCF ROE Calculation

18 Exhibit No. \_\_\_(RAB-10) - CAPM ROE Analysis - Comparison Group

19 Exhibit No. \_\_\_(RAB-11) - CAPM Analysis - Historic Market Premium

20 **II. REVIEW OF ECONOMIC AND FINANCIAL CONDITIONS**

21 **Q. Mr. Baudino, what has the trend been in long-term capital costs over the last**  
22 **few years?**

1 A. Exhibit No. \_\_\_(RAB-2) presents a graphic depiction of the trend in interest rates  
2 from January 2002 through May 2013. The interest rates shown in this exhibit are  
3 for the 20-year U.S. Treasury Bond and the average public utility bond from the  
4 Mergent Bond Record. Exhibit No. \_\_\_(RAB-2) shows that the yields on long-term  
5 Treasury and utility bonds have declined substantially since early 2002. For  
6 example, the average public utility bond yield in January 2002 was 7.69% and the  
7 20-year Treasury Bond yield was 5.69%. As of May 2013 the average public utility  
8 bond yield was 4.24% and represents a decline of 345 basis points, or 3.45% from  
9 January 2002. Likewise, the 20-year Treasury bond declined to 2.73% in May 2013,  
10 a decline of 2.96% from January 2002. Interest rates during 2013 have been at  
11 historically low levels.

12  
13 In 2008, world financial markets experienced tumultuous changes and volatility not  
14 seen since the Great Depression. As noted in the SBBI 2009 Yearbook, both large  
15 and small company stocks declined around 37% for the year.<sup>1</sup> Investors, in a flight  
16 to quality and safety, also pulled their funds out of those corporate bonds that were  
17 perceived to be higher risk and invested in the safety of Treasury securities. The  
18 2009 SBBI Yearbook reported that long-term Treasury Bonds returned 25.87%  
19 during 2008, while long-term corporate bonds returned 8.78%. Thus, bonds  
20 significantly outperformed stocks in 2008. The stocks of electric utilities did not fare  
21 well during the financial market upheaval of 2008. The Dow Jones Utility Average

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1 <sup>1</sup> 2009 Ibbotson SBBI Classic Yearbook, Morningstar, page 11.



1 was down from its opening level in January 2008 of 532.50 to 370.76 at the end of  
2 December, a decline of 30.4%. This decline was smaller than the decline in the  
3 overall stock market. Utility bond yields also increased significantly during the year,  
4 rising from 6.08% in January to a high of 7.80% in November. As investors flocked  
5 to the safety of Treasury securities, the yield spread between long-term Treasury  
6 securities and the index of public utility bonds widened from 1.73% in January to  
7 3.69% in December, the highest spread during the entire period shown in Exhibit No.  
8 \_\_\_\_ (RAB-2).

9  
10 In 2009 and continuing through 2012, utility bond yields fell significantly from  
11 November 2008 levels, as did the spread between public utility bond yields and long-  
12 term Treasuries. The average utility bond yield in December 2012 was 4.1%, a  
13 decline of 370 basis points, or 3.70%, from November 2008. At the end of December  
14 2012 the yield spread between utility bonds and the long-term Treasury bond  
15 declined to 1.63%. This is much closer to the historical spread.

16  
17 On June 19, 2013, the Federal Reserve issued a Federal Open Market Committee  
18 ("FOMC") press release indicating that it intended to extend what has been termed  
19 "Operation Twist." This refers to the Federal Reserve maturity extension program  
20 whereby the Federal Reserve redeems or sells shorter-term treasury securities and  
21 uses the proceeds to buy longer-term securities. In its press release, the Federal  
22 Reserve stated:

23 To support a stronger economic recovery and to help ensure  
24 that inflation, over time, is at the rate most consistent with its

1 dual mandate, the Committee decided to continue purchasing  
2 additional agency mortgage-backed securities at a pace of \$40  
3 billion per month and longer-term Treasury securities at a pace  
4 of \$45 billion per month. The Committee is maintaining its  
5 existing policy of reinvesting principal payments from its  
6 holdings of agency debt and agency mortgage-backed  
7 securities in agency mortgage-backed securities and of rolling  
8 over maturing Treasury securities at auction. Taken together,  
9 these actions should maintain downward pressure on longer-  
10 term interest rates, support mortgage markets, and help to  
11 make broader financial conditions more accommodative.  
12 [Exhibit No. \_\_\_\_ (RAB-3) at p. 1].

13 By reducing the supply of longer-term Treasury securities, the prices of these  
14 securities will rise, putting downward pressure on long-term interest rates.

15 **Q. Please compare current financial market conditions with the conditions that**  
16 **were present in Tampa Electric's last rate case, Docket No. 080317-EI.**

17 **A.** Tampa Electric's last rate case began in August 2008 and the Commission issued its  
18 Final Order on April 30, 2009. As I stated earlier, the latter part of 2008 was marked  
19 by a severe financial crisis. In 2009 the financial markets began to slowly recover  
20 from the tumultuous volatility and substantial losses sustained in 2008 and the  
21 country had fallen into a deep recession. The yield on the average public utility bond  
22 was 6.48% in August 2008 and by the time the Commission issued its Final Order,  
23 that bond yield had risen to 6.9%. The Commission noted on page 47 of its Order  
24 that the witnesses in the case recognized that the economy was not in a "normal or  
25 stable state."<sup>2</sup> The Commission authorized an ROE of 11.25% with a range of plus

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2 Order No. PSC-09-0283-FOF-EI, *In re: Petition for rate increase by Tampa Electric Co.*, Docket No. 080317-EI, at p. 47 (issued Apr. 30, 2009).

1 or minus 100 basis points.

2

3 Since 2009, financial markets have recovered from the tumult of 2008 and interest  
4 rates are near historic lows. The Dow Jones Utility Average, which closed at 334.20  
5 in April 2009, closed at 482.16 as of May 30, 2013, a rise of approximately 44%.

6

7 In addition the Chicago Board of Options Exchange ("CBOE") VIX index, a well-  
8 known measure of stock market volatility has declined significantly since 2009. At  
9 the end of April 2009 the VIX stood at 36.5. At the end of June 2013, the VIX stood  
10 at 16.86, indicating far less stock market volatility at the time of this proceeding vis-  
11 à-vis Tampa Electric's last rate case. Exhibit No. \_\_\_\_ (RAB-4)

12 **Q. What does this suggest for the return on equity in this proceeding?**

13 A. It suggests that the ROE in this case should be considerably lower than in Tampa  
14 Electric's last rate case. My ROE analysis in the next section of my testimony  
15 supports this conclusion.

16 **Q. How does the investment community regard the electric utility industry as a**  
17 **whole?**

18 A. The June 21, 2013 Value Line report on the Electric Utility (Central) group of  
19 companies noted the following regarding the effect of the current low interest rate  
20 environment on electric utilities:

21

22 Since mid-May, the prices of most electric utility stocks have  
23 declined, while the Value Line Composite Average is almost  
24 unchanged. Even so, most electric utility issues are up solidly  
25 year to date, and are still trading within their 2016-2018

1 Target Price Ranges. Historically, this is an indication that  
2 these equities are expensively priced. Income-oriented  
3 investors don't have a lot of options, with money market and  
4 savings instruments having such low yields. They must be  
5 cognizant of the market risks they are assuming when they  
6 purchase stocks for their generous dividends.

7 **Q. Briefly describe Tampa Electric Company.**

8 A. Tampa Electric is a wholly owned electric operating subsidiary of TECO Energy,  
9 Inc. ("TECO Energy"). According to TECO Energy's 2012 10-K Report, during  
10 calendar year 2012, Tampa Electric generated \$1,981.3 million in revenues, 48%  
11 derived from residential sales, 31% from commercial sales, 9% from industrial sales,  
12 and 12% from other sources, including bulk power and sales for resale. Exhibit No.  
13 \_\_\_\_ (RAB-5) at p. 5. Tampa Electric derives 61% of its generation from coal and  
14 39% from natural gas. The Company's owned generating units supply 94% of total  
15 system load requirements, with the remaining 6% coming from purchased power.  
16 Exhibit No. \_\_\_\_ (RAB-5) at p. 6.

17  
18

19 Tampa Electric's "[f]uel, purchased power, conservation and certain environmental  
20 costs are recovered through levelized monthly charges established pursuant to the  
21 [Commission's] cost-recovery clauses." Exhibit No. \_\_\_\_ (RAB-5) at p. 9.  
22 According to TECO Energy's 2012 10-K, "Tampa Electric expects that the costs to  
23 comply with new environmental regulations would be eligible for recovery through  
24 the [environmental cost recovery clause]." Exhibit No. \_\_\_\_ (RAB-5) at p. 8.

25 Tampa Electric expects to undertake capital investments from 2013 through 2017

1 totaling approximately \$2.3 billion. Exhibit No. \_\_\_ (RAB-7) at p. 7. These  
2 expenditures will support system growth and reliability, environmental compliance  
3 and computer system improvements.

4 **Q. What are the current bond ratings for Tampa Electric?**

5 A. Tampa Electric's senior unsecured bond ratings are currently A3 from Moody's  
6 Investor's Services ("Moody's") and BBB+ from Standard and Poor's ("S&P").  
7 Both of these rating agencies have stable ratings outlooks for the Company.

8  
9 In its Credit Opinion dated May 30, 2013, Moody's noted the following ratings  
10 drivers for Tampa Electric:

- 11 • Supportive Florida regulatory framework that provides timely recovery of  
12 prudently incurred costs and investments.
- 13 • Strong credit metrics elevated by bonus depreciation.
- 14 • Sizeable increase in capital expenditures funded through debt and parent  
15 contributions.
- 16 • Solid liquidity profile.

17  
18 In its Summary Analysis dated June 17, 2013, S&P assigned Tampa Electric an  
19 excellent business risk profile and a significant financial risk profile. With respect to  
20 business risk, S&P's ratings scale ranges from vulnerable to excellent, meaning that  
21 Tampa Electric is at the top of the scale. S&P stated that Tampa Electric's excellent  
22 business risk reflects monopolistic, rate-regulated electric and gas businesses that  
23 provide an essential service. S&P also stated:

1 Tampa Electric Co.'s service territory has faced a strong  
2 downturn due to the slowed economy and depressed housing  
3 market. However, recent housing statistics and state  
4 unemployment rates signal a slow but recovering economy.  
5 Although historically high growth rates seen in the past in  
6 these areas may take some time to come back, Florida  
7 continues to offer attractive incentives that should favor its  
8 economy.

9 With respect to "significant" financial risk, S&P noted that Tampa Electric's  
10 financial profile "reflects the consolidated financial measures of its parent, TECO  
11 Energy." S&P's ratings scale ranges from "highly leveraged" to "minimal".

12  
13 TECO Energy's Chief Executive Officer ("CEO") stated in a May 2012 presentation  
14 that "TECO Energy expects to generate significant free cash flow after dividends for  
15 the next several years", there were "[n]o significant TECO Energy debt maturities  
16 until 2015", and TECO Energy expects "cash generation to retire 2015 debt."  
17 Exhibit No. \_\_\_\_ (RAB-6) at p. 12. In addition, Schedule D-4a, page 2, of Tampa  
18 Electric's MFRs show that Tampa Electric will not have any long term debt maturing  
19 until April, 2016.

20  
21 According to S&P's June 17, 2013 Summary Analysis, TECO Energy has  
22 announced that "it had entered into a stock purchase agreement to acquire New  
23 Mexico Gas Co." S&P's assessment of Tampa Electric's financial risk "previously  
24 assumed that the proceeds from [TECO Energy's sale of its] Guatemala assets would

1 be used for reduction of debt” but now S&P’s assessment “assumes that this cash  
2 will be used for the acquisition” of New Mexico Gas Co.

3  
4 Additionally, Witness Callahan noted on page 22 of her testimony that the  
5 Regulatory Research Associates (“RRA”) ranked the Commission as “Above  
6 Average 3” on a scale that runs from Above Average 1 to Below Average 3. As  
7 such, there are only three state/district regulatory bodies out of the 51 jurisdictions  
8 evaluated by RRA that have a better ranking than the Commission. Exhibit No.  
9 \_\_\_\_ (SWC-1), Document No. 9 (Alabama, Virginia, and Wisconsin). Notably, the  
10 rankings “are intended to be comparative in nature” and are based on a curve so that  
11 the majority of jurisdictions receive a ranking of Average 2. Exhibit No. \_\_\_\_  
12 (RAB\_7) at pp. 20-21.

13 **Q. Mr. Baudino, what is your conclusion regarding the financial health and overall**  
14 **risk of Tampa Electric?**

15 A. Since its last rate proceeding before the Commission, the Company has had low cost  
16 access to capital markets for its construction program and for other corporate  
17 purposes. Tampa Electric spent approximately \$1.476 billion on capital  
18 expenditures from 2009 through 2012. Exhibit No. \_\_\_\_ (RAB-7) at p. 1. During  
19 that time, Tampa Electric (1) entered a debt exchange in December 2010 with a  
20 principal amount of approximately \$232 million, maturing in approximately 11  
21 years, at a coupon rate of 5.4%, (2) issued \$250 million of 30-year bonds in June  
22 2012 at a coupon rate of 4.10% and (3) issued \$225 million of 10-year bonds in  
23 September 2012 at a coupon rate of 2.60%. MFR Schedule D-4a at p. 3.

1

2

Tampa Electric also benefits from several Commission-approved cost recovery clauses that reduce its business and financial risk profiles and help stabilize its revenues and earnings. Its bond ratings currently enjoy a stable credit outlook from Moody's and S&P. Overall Tampa Electric remains an electric utility with solid financial health and an excellent business risk position.

7

8

As I described earlier in my testimony, current interest rates are at or near historic lows. This suggests a much lower return on equity, other things equal, for Tampa Electric than the Commission approved in Docket No. 080317-EI.

9

10

11

### III. DETERMINATION OF FAIR RATE OF RETURN

12 Q.

**Please describe the methods you employed in estimating a fair rate of return for Tampa Electric.**

13

14 A.

I employed a Discounted Cash Flow ("DCF") analysis for a group of comparison electric companies to estimate the cost of equity for the Company's regulated electric operations. I also employed several Capital Asset Pricing Model ("CAPM") analyses using both historical and forward-looking data.

15

16

17

18 Q.

**What are the main guidelines to which you adhere in estimating the cost of equity for a firm?**

19

20 A.

Generally speaking, the estimated cost of equity should be comparable to the returns of other firms with similar risk and should be sufficient for the firm to attract capital.

21

22

These are the basic standards set out by the United States Supreme Court in *Federal Power Comm'n v. Hope Natural Gas Co.*, 320 U.S. 591 (1944) ("Hope") and

23



1        *Bluefield W.W. & Improv. Co. v. Public Service Comm'n*, 262 U.S. 679 (1922)  
2        ("Bluefield").

3  
4        From an economist's perspective, the notion of "opportunity cost" plays a vital role  
5        in estimating the return on equity. One measures the opportunity cost of an  
6        investment equal to what one would have obtained in the next best alternative. For  
7        example, let us suppose that an investor decides to purchase the stock of a publicly  
8        traded electric utility. That investor made the decision based on the expectation of  
9        dividend payments and growth over time; however, that investor's opportunity cost  
10       is measured by what she or he could have invested in as the next best alternative.  
11       That alternative could have been another utility stock, a utility bond, a mutual fund, a  
12       money market fund, or any other number of comparable investment vehicles.

13  
14       The key determinant in deciding whether to invest, however, is based on  
15       comparative levels of risk and expected return. Our hypothetical investor would not  
16       invest in a particular electric company stock if it offered a return lower than other  
17       investments of similar risk. The opportunity cost simply would not justify such an  
18       investment. Thus, the task for the rate of return analyst is to estimate a return that is  
19       equal to the return being offered by other risk-comparable firms.

20       **Q.    What are the major types of risk faced in holding the stock of utility**  
21       **companies?**

22       **A.    In general, risk associated with the holding of common stock can be separated into**  
23       **three major categories: business risk, financial risk, and liquidity risk. Business risk**

1 refers to risks inherent in the operation of the business. Volatility of the firm's sales,  
2 long-term demand for its product(s), and quality of management are several factors  
3 that affect business risk. The quality of regulation at the state and federal levels also  
4 plays an important role in business risk for regulated utility companies.

5  
6 Financial risk refers to the impact on a firm's future cash flows from the use of debt  
7 in the capital structure. Interest payments to bondholders represent a prior call on the  
8 firm's cash flows and must be met before income is available to the common  
9 shareholders. Other things being equal, as the percentage of debt interest to total  
10 income increases, so does the financial risk.

11  
12 Liquidity risk refers to the ability of an investor to quickly sell an investment without  
13 a substantial price concession. The easier it is for an investor to sell an investment  
14 for cash, the lower the liquidity risk will be. Stock markets, such as the New York  
15 and American Stock Exchanges, help ease liquidity risk substantially. Investors who  
16 own stocks that are traded in these markets know on a daily basis what the market  
17 prices of their investments are and that they can sell these investments fairly quickly.  
18 Many electric utility stocks are traded on the New York Stock Exchange and are  
19 considered liquid investments.

20 **Q. Are there any sources available to investors that quantify the risks facing a**  
21 **company?**

22 **A. Yes. Bond and credit ratings are tools that investors use to assess the risk**  
23 **comparability of firms. Bond rating agencies such as Moody's and S&P perform**

1 detailed analyses of factors that contribute to the risk of a particular investment. The  
2 end result of their analyses is a bond and/or credit rating that reflects these risks.  
3 These ratings are widely available and relied upon by investors.

#### 4 Discounted Cash Flow ("DCF") Model

5 **Q. Please describe the basic DCF approach.**

6 A. The basic DCF approach is rooted in valuation theory. It is based on the premise that  
7 the value of a financial asset is determined by its ability to generate future net cash  
8 flows. In the case of a common stock, those future cash flows generally take the  
9 form of dividends and appreciation in stock price. The value of the stock to  
10 investors is based on the discounted present value of future cash flows to the  
11 investor. The general equation then is:

$$V = \frac{R}{(1+r)} + \frac{R}{(1+r)^2} + \frac{R}{(1+r)^3} + \dots + \frac{R}{(1+r)^n}$$

13 *Where:*         $V = \text{asset value}$   
14                     $R = \text{yearly cash flows}$   
15                     $r = \text{discount rate}$

16  
17 This is no different from determining the value of any asset from an economic point  
18 of view; however, the commonly employed DCF model makes certain simplifying  
19 assumptions. One is that the stream of income from the equity share is assumed to  
20 be perpetual; that is, there is no salvage or residual value at the end of some maturity  
21 date (as is the case with a bond). Another important assumption is that financial  
22 markets are reasonably efficient; that is, they correctly evaluate the cash flows

1 relative to the appropriate discount rate, thus rendering the stock price efficient  
2 relative to other alternatives. Finally, the model I employ also assumes a constant  
3 growth rate in dividends. The fundamental relationship employed in the DCF  
4 method is described by the formula:

$$k = D_1/P_0 + g$$

5           Where:        *D<sub>1</sub>* = the next period dividend  
6                            *P<sub>0</sub>* = current stock price  
7                            *g* = expected growth rate  
8                            *k* = investor-required return

9  
10 Under the formula, it is apparent that "k" must reflect the investors' expected return.  
11 Use of the DCF method to determine an investor-required return is complicated by  
12 the need to express investors' expectations relative to dividends, earnings, and book  
13 value over an infinite time horizon. Financial theory suggests that stockholders  
14 purchase common stock on the assumption that there will be some change in the rate  
15 of dividend payments over time. We assume that the rate of growth in dividends is  
16 constant over the assumed time horizon, but the model could easily handle varying  
17 growth rates if we knew what they were. Finally, the relevant time frame is  
18 prospective rather than retrospective.

19 **Q. What was your first step in conducting your DCF analysis for Tampa Electric?**

20 **A.** My first step was to construct a comparison group of companies with a risk profile  
21 that is reasonably similar to Tampa Electric. Since Tampa Electric is a subsidiary of  
22 TECO Energy, it is not publicly traded, thus one cannot estimate a DCF cost of

1 equity on this company directly. It is necessary to use a group of companies that are  
2 similarly situated and have reasonably similar risk profiles to Tampa Electric.

3 **Q. Please describe your approach for selecting a comparison group of electric**  
4 **companies.**

5 A. I used several criteria to select a comparison group. First, using the July 2013 issue  
6 of AUS Utility Reports, I selected electric companies whose bonds were rated  
7 Baa/BBB by either Moody's or S&P. Tampa Electric currently carries senior  
8 unsecured bond ratings of BBB+ from S&P and A3 from Moody's, so using the  
9 either/or criterion for a BBB/Baa rating assures that the companies in the comparison  
10 group carry bond ratings that are slightly below or similar to Tampa Electric. In fact,  
11 using a slightly lower Moody's bond rating than Tampa Electric's A3 rating suggests  
12 that my ROE analysis is conservative.

13

14 From this group, I then eliminated companies that had recently cut or eliminated  
15 dividends, were recently or currently involved in merger activities, or had recent  
16 experience with significant earnings fluctuations. Companies that did not pass these  
17 screens are not appropriate candidates to which one can apply the DCF formula  
18 because of unrepresentative market prices (in terms of companies that are merger  
19 candidates) or non-constant growth in earnings or dividends. I also eliminated any  
20 companies that had recently been or were currently being restructured in a significant  
21 way. These screens eliminated the following companies:

22

- 1           • El Paso Electric Company - resumed dividend payments in 2011 after several  
2           years of no dividends.
- 3           • Entergy Corporation - pending sale of transmission assets to ITC  
4           Corporation.
- 5           • FirstEnergy Corporation - unstable earnings per share in 2011 and 2012,  
6           reduced unregulated earnings.
- 7           • NV Energy Inc. - pending acquisition by MidAmerican Energy Holdings  
8           Company.
- 9           • OGE Energy Corp. - affect on stock price from formation of Master Limited  
10          Partnership with CenterPoint Energy.
- 11          • PNM Resources - non-constant dividend and earnings growth rates from  
12          Value Line (12.5% and 12.0%, respectively).
- 13          • TECO Energy - pending purchase of New Mexico Gas Company.

14

15          I also eliminated Ameren Corporation and Edison International from the group  
16          because Value Line noted that these companies are being affected by low power  
17          prices and/or activities associated with their merchant and unregulated generation  
18          assets.<sup>3</sup> According to Value Line, Edison International is a different company in  
19          2013 than it was in 2012. Edison International booked a \$5.11 per share loss from  
20          its discontinued unregulated power generating business. Likewise, Value Line

---

3          Value Line Investment Survey, report for Ameren dated June 21, 2013 and for Edison International dated May 3, 2013.

1 reported that Ameren discontinued its merchant generation business and booked an  
2 \$0.82 per share loss in the March quarter of 2013. Value Line currently forecasts  
3 negative earnings and book value growth rate for Ameren.

4  
5 Finally, I eliminated PG&E Corporation due to ongoing effects from a gas pipeline  
6 explosion.<sup>4</sup> This uncertainty is affecting near-term earnings growth forecasts for  
7 PG&E.

8  
9 The resulting comparison group of 16 electric companies that I used in my analysis  
10 is shown in the table below.

11  

---

  
4 Value Line Investment Survey, report for PG&E dated May 3, 2013.

**TABLE 1**  
**ELECTRIC UTILITY COMPARISON GROUP**

		<u>S&amp;P</u>	<u>Moody's</u>
1	American Electric Power Co.	BBB	Baa2
2	Black Hills Corporation	BBB+	A3
3	Cleco Corporation	BBB	Baa2
4	CMS Energy Corporation	BBB/BBB-	Baa2
5	Consolidated Edison, Inc.	A-	A3/Baa1
6	Dominion Resources, Inc.	A	Baa1
7	Great Plains Energy Incorporated	BBB/BBB-	Baa1/Baa2
8	Hawaiian Electric Industries, Inc.	BBB-	Baa2
9	Otter Tail Corp.	BBB-/BB+	Baa2
10	Pepeco Holdings, Inc.	A-/BBB+	Baa1/Baa2
11	Pinnacle West Capital Corp.	BBB+	Baa1
12	SCANA Corporation	BBB+	Baa1/Baa2
13	UIL Holdings Corporation	BBB	Baa2
14	UNS Energy Corp.	BBB-	Baa2
15	Westar Energy, Inc.	BBB+	A3
16	Wisconsin Energy Corporation	A-/BBB+	A2/A3

1

2 **Q. What was your first step in determining the DCF return on equity for the**  
 3 **comparison group?**

4 A. I first determined the current dividend yield,  $D_1/P_0$ , from the basic equation. My  
 5 general practice is to use six months as the most reasonable period over which to  
 6 estimate the dividend yield. The six-month period I used covered the months from  
 7 January through June 2013. I obtained historical prices and dividends from Yahoo!  
 8 Finance. The annualized dividend divided by the average monthly price represents  
 9 the average dividend yield for each month in the period.

10

11 The resulting average dividend yield for the group is 4.00%. These calculations are  
 12 shown in Exhibit No. \_\_\_\_ (RAB-8).

13



1 **Q. What was the range of monthly dividend yields during the six-month period?**

2 A. Page 3 of Exhibit No. \_\_\_\_ (RAB-8) shows that the monthly average yields for the  
3 comparison group ranged from 3.80% in April to 4.19% in January, with the most  
4 recent June yield being 4.11%. In my opinion, the average six-month yield of 4.00%  
5 is a reasonable proxy for the current dividend yield in this case.

6 **Q. Having established the average dividend yield, how did you determine the**  
7 **investors' expected growth rate for the electric comparison group?**

8 A. The investors' expected growth rate, in theory, correctly forecasts the constant rate  
9 of growth in dividends. The dividend growth rate is a function of earnings growth  
10 and the payout ratio, neither of which is known precisely for the future. We refer to  
11 a perpetual growth rate since the DCF model has no arbitrary cut-off point. We must  
12 estimate the investors' expected growth rate because there is no way to know with  
13 absolute certainty what investors expect the growth rate to be in the short term, much  
14 less in perpetuity.

15  
16 In this analysis, I relied on three major sources of analysts' forecasts for growth.  
17 These sources are the Value Line Investment Survey, Zacks, and Thomson Financial.

18 **Q. Please briefly describe Value Line, Zacks, and Thomson Financial.**

19 A. The Value Line Investment Survey is a widely used and respected source of investor  
20 information that covers several thousand companies. It is updated quarterly and  
21 probably represents the most comprehensive of all investment information services.  
22 It provides both historical and forecasted information on a number of data elements.

1 Value Line neither participates in financial markets as a broker nor works for the  
2 utility industry in any capacity of which I am aware.

3  
4 Zacks is an investment service that gathers opinions from a variety of analysts on  
5 earnings growth forecasts for numerous firms including regulated electric utilities.  
6 The estimates of the analysts responding are combined to produce consensus average  
7 estimates of earnings growth.

8  
9 Like Zacks, Thomson Financial also provides investment research on numerous  
10 companies. Thomson also compiles and reports consensus analysts' forecasts of  
11 earnings growth. I obtained the Thomson Financial forecasts from Yahoo! Finance.

12  
13 Both Zacks and Thomson Financial provide five-year earnings growth forecasts,  
14 which I have used in my DCF analyses.

15 **Q. Why did you rely on analysts' forecasts in your analysis?**

16 A. Return on equity analysis is a forward-looking process. Five-year or ten-year  
17 historical growth rates may not accurately represent investor expectations for  
18 dividend growth. Analysts' forecasts for earnings and dividend growth provide  
19 better proxies for the expected growth component in the DCF model than historical  
20 growth rates. Analysts' forecasts are also widely available to investors and by virtue  
21 of their continual updating and marketing by their sponsor obviously fill a market  
22 demand for such information.

1 Q. How did you utilize your data sources to estimate growth rates for the  
2 comparison group?

3 A. Exhibit No.\_\_\_\_(RAB-9) presents the Value Line, Zacks, and Thomson Financial  
4 forecasted growth estimates. These earnings and dividend growth estimates for the  
5 comparison group are summarized on Columns (1) through (5) of Exhibit  
6 No.\_\_\_\_(RAB-9).

7 I also adjusted the Value Line dividend growth rate for Pinnacle West Capital Corp.  
8 to recognize 4 dividend payments in 2012, rather than the five declarations that were  
9 included by Value Line in the "Div'd Decl'd per sh" line in that Company's report.  
10 This reduced the three-year historical average dividends per share data that I used to  
11 calculate compound growth through the 2016 - 2018 time period. This had the effect  
12 of increasing the compound dividend growth rate from 2.0% to 3.62%.

13 I also utilized the sustainable growth formula in estimating the expected growth rate.  
14 The sustainable growth method, also known as the retention ratio method, recognizes  
15 that the firm retains a portion of its earnings to fuel growth in dividends. These  
16 retained earnings, which are plowed back into the firm's asset base, are expected to  
17 earn a rate of return. This, in turn, generates growth in the firm's book value, market  
18 value, and dividends.

19

20 The sustainable growth method is calculated using the following formula:

21

$$G = B * R$$

22

Where: *G = expected retention growth rate*

23

*B = the firm's expected retention ratio*

24

*R = the expected return*

1 In its proper form, this calculation is forward-looking. That is, the investors'  
2 expected retention ratio and return must be used in order to measure what investors  
3 anticipate will happen in the future. Data on expected retention ratios and returns  
4 may be obtained from Value Line.

5  
6 The expected sustainable growth estimates for the comparison group are presented in  
7 Column (3) on page 1 of Exhibit No. \_\_\_\_ (RAB-9). The data came from the Value  
8 Line forecasts for the comparison group.

9 **Q. How did you approach the calculation of earnings growth forecasts in this case?**

10 A. For purposes of this case, I looked at two different methods for calculating the  
11 expected growth rates for my comparison group. For Method 1, I calculated the  
12 average of all the growth rates for the companies in my comparison group using  
13 Value Line, Zacks, and Thomson. For Method 2, I calculated the median growth  
14 rates for my comparison group. The median value represents the middle value in a  
15 data range and is not influenced by excessively high or low numbers in the data set.  
16 The median growth rate for each forecast provides additional valuable information  
17 regarding expected growth rates for the group.

18  
19 I also excluded the Value Line earnings growth estimate of 21.50% for Otter Tail  
20 Corp. from the calculation of the average Value Line earnings growth estimate.  
21 Clearly, 21.50% is an anomalous percentage and would only serve to inflate the  
22 average earnings growth calculation for the comparison group. By way of

1 comparison, the next highest growth rate estimate for the companies in my  
2 comparison group in 12.0%.

3

4 The expected growth rates produced from these two methods fall in a range from  
5 3.31% to 5.95%.

6 **Q. How did you proceed to determine the DCF return on equity for the electric**  
7 **comparison group?**

8 A. To estimate the expected dividend yield ( $D_1$ ) for the group, the current dividend  
9 yield must be moved forward in time to account for dividend increases over the next  
10 twelve months. I estimated the expected dividend yield by multiplying the current  
11 dividend yield by one plus one-half the expected growth rate.

12

13 I then added the expected growth rates to the expected dividend yield. The  
14 calculations of the resulting DCF returns on equity for both methods are presented on  
15 page 2 of Exhibit No. \_\_\_\_ (RAB-9).

16 **Q. Please explain how you calculated your DCF cost of equity estimates.**

17 A. Page 2 of Exhibit No. \_\_\_\_ (RAB-9) presents the DCF results utilizing the two  
18 different methods I described earlier. Method 1 utilizes the average growth rates for  
19 the comparison group. I used the Value Line earnings and dividend growth forecasts  
20 and the consensus analysts' forecasts. The average for the comparison group is  
21 9.32% and the midpoint is 9.08%.

22 Method 2 employs the median growth rates from Value Line, Zacks, and Thomson.

23 The average DCF return on equity is 9.08% and the midpoint of the results is 8.73%.

1 **Capital Asset Pricing Model**

2 **Q. Briefly summarize the Capital Asset Pricing Model ("CAPM") approach.**

3 A. The theory underlying the CAPM approach is that investors, through diversified  
4 portfolios, may combine assets to minimize the total risk of the portfolio.  
5 Diversification allows investors to diversify away risks specific to a particular  
6 company so that the investor is left only with market risk that affects all companies.  
7 Thus, the CAPM theory identifies two types of risks for a security: company-specific  
8 risk and market risk. Company-specific risk includes such events as strikes,  
9 management errors, marketing failures, lawsuits, and other events that are unique to  
10 a particular firm. Market risk includes inflation, business cycles, war, variations in  
11 interest rates, and changes in consumer confidence. Market risk tends to affect all  
12 stocks and cannot be diversified away. The idea behind the CAPM is that diversified  
13 investors are rewarded with returns based on market risk.

14

15 Within the CAPM framework, the expected return on a security is equal to the risk-  
16 free rate of return plus a risk premium that is proportional to the security's market, or  
17 non-diversifiable, risk. Beta is the factor that reflects the inherent market risk of a  
18 security and measures the volatility of a particular security relative to the overall  
19 market for securities. For example, a stock with a beta of 1.0 indicates that if the  
20 market rises by 15%, that stock will also rise by 15%. This stock moves in tandem  
21 with movements in the overall market. Stocks with a beta of 0.5 will only rise or fall  
22 50% as much as the overall market. So with an increase in the market of 15%, this  
23 stock will only rise 7.5%. Stocks with betas greater than 1.0 will rise and fall more

1 than the overall market. Thus, beta is the measure of the relative risk of individual  
2 securities vis-à-vis the market.

3  
4 Based on the foregoing discussion, the equation for determining the return for a  
5 security in the CAPM framework is:

$$K = R_f + \beta(MRP)$$

7           Where:       *K*     = *Required Return on equity*  
8                        *R<sub>f</sub>*    = *Risk-free rate*  
9                        *MRP* = *Market risk premium*  
10                      *β*     = *Beta*

11  
12 This equation tells us about the risk/return relationship posited by the CAPM.  
13 Investors are risk averse and will only accept higher risk if they expect to receive  
14 higher returns. These returns can be determined in relation to a stock's beta and the  
15 market risk premium. The general level of risk aversion in the economy determines  
16 the market risk premium. If the risk-free rate of return is 3.0% and the required  
17 return on the total market is 15%, then the risk premium is 12%. Any stock's  
18 required return can be determined by multiplying its beta by the market risk  
19 premium. Stocks with betas greater than 1.0 are considered riskier than the overall  
20 market and will have higher required returns. Conversely, stocks with betas less than  
21 1.0 will have required returns lower than the market as a whole.

22 **Q. In general, are there concerns regarding the use of the CAPM in estimating the**  
23 **return on equity?**

1 A. Yes. There is some controversy surrounding the use of the CAPM.<sup>5</sup> There is  
2 evidence that beta is not the primary factor in determining the risk of a security.  
3 Beta coefficients usually describe only a small amount of total investment risk.  
4 Finally, a considerable amount of judgment must be employed in determining the  
5 risk-free rate and market return portions of the CAPM equation. The analyst's  
6 application of judgment can significantly influence the results obtained from the  
7 CAPM. My past experience with the CAPM indicates that it is prudent to use a wide  
8 variety of data in estimating returns. Of course, the range of results may also be  
9 wide, indicating the difficulty in obtaining a reliable estimate from the CAPM.

10 **Q. How did you estimate the market return portion of the CAPM?**

11 A. The first source I used was the Value Line Investment Analyzer, Plus Edition, for  
12 June 25, 2013. This edition covers nearly 7,000 stocks. The Value Line Investment  
13 Analyzer provides a summary statistical report detailing, among other things,  
14 forecasted growth in earnings and book value for the companies Value Line follows.  
15 I have presented these two growth rates and the average on page 2 of Exhibit  
16 No.\_\_\_\_(RAB-10). The average growth rate is 11.43%. Combining this growth rate  
17 with the average expected dividend yield of the Value Line companies of 0.71%  
18 results in an expected market return of 12.18%. The detailed calculations are shown  
19 on page 1 of Exhibit No.\_\_\_\_(RAB-10).

20

---

5 For a more complete discussion of some of the controversy surrounding the use of the CAPM, refer to  
*A Random Walk Down Wall Street* by Burton Malkiel, pp. 206– 211, 2007 edition.



1 I also considered a supplemental check to this market estimate. Morningstar  
2 publishes a study of historical returns on the stock market in its *Ibbotson SBBI 2013*  
3 *Valuation Yearbook*. Some analysts employ this historical data to estimate the  
4 market risk premium of stocks over the risk-free rate. The assumption is that a risk  
5 premium calculated over a long period of time is reflective of investor expectations  
6 going forward. Exhibit No. \_\_\_\_ (RAB-11) presents the calculation of the market  
7 return using the historical data.

8 **Q. Please address the use of historical earned returns to estimate the market risk**  
9 **premium.**

10 A. The use of historic earned returns on the S&P 500 to estimate the current market risk  
11 premium is rather suspect because it naively assumes that investors currently expect  
12 historic risk premiums to continue unchanged into the future regardless of present or  
13 forecasted economic conditions. Brigham, Shome, and Vinson noted the following  
14 with respect to the use of historic risk premiums calculated using the returns as  
15 reported by Ibbotson and Sinquefeld (referred to in the quote as "I&S"):

16 There are both conceptual and measurement problems with  
17 using I&S data for purposes of estimating the cost of capital.  
18 Conceptually, there is no compelling reason to think that  
19 investors expect the same relative returns that were earned in  
20 the past. Indeed, evidence presented in the following sections  
21 indicates that relative expected returns should, and do, vary  
22 significantly over time. Empirically, the measured historic  
23 premium is sensitive both to the choice of estimation horizon  
24 and to the end points. These choices are essentially arbitrary,  
25 yet can result in significant differences in the final outcome.<sup>6</sup>

---

6 Brigham, E.F., Shome, D.K. and Vinson, S.R., "The Risk Premium Approach to Measuring a Utility's Cost

1 In summary, the use of historic earned returns should be viewed with a great deal of  
2 caution. There is no real support for the proposition that an unchanging,  
3 mechanically applied historical risk premium is representative of current investor  
4 expectations and return requirements.

5 **Q. How did you determine the risk free rate?**

6 A. I used the average yields on the 20-year Treasury bond and five-year Treasury note  
7 over the six-month period from January through June 2013. The 20-year Treasury  
8 bond is often used by rate of return analysts as the risk-free rate, but it contains a  
9 significant amount of interest rate risk. Interest rate risk is the inverse relationship  
10 between interest rates and prices. Generally, the longer the term of the bond, the  
11 more risk the investor assumes regarding changes in interest rates over time. The  
12 five-year Treasury note carries less interest rate risk than the 20-year bond and is  
13 more stable than three-month Treasury bills. Therefore, I have employed both of  
14 these securities as proxies for the risk-free rate of return. This approach provides a  
15 reasonable range over which the CAPM may be estimated.

16 **Q. What is your estimate of the market risk premium?**

17 A. Exhibit No. \_\_\_\_ (RAB-10), line 9 of page 1, presents my estimates of the market risk  
18 premium based on a DCF analysis applied to current market data. The market risk  
19 premium is 9.42% using the 20-year Treasury bond and 11.31% using the five-year  
20 Treasury bond.

1

2 Utilizing the historical Ibbotson data on market returns, the market risk premium  
3 ranges from 4.70% to 6.70%. This is shown on Exhibit No.\_\_\_\_(RAB-11).

4 **Q. How did you determine the value for beta?**

5 A. I obtained the betas for the companies in the electric company comparison group  
6 from most recent Value Line reports. The average of the Value Line betas for the  
7 electric group is .71.

8 **Q. Please summarize the CAPM results.**

9 A. The CAPM results using the 20-year and five-year Treasury bond yields and Value  
10 Line market return data range from 8.89% to 9.44%. Exhibit No. \_\_\_\_ (RAB-10) at  
11 p. 1, line 14.

12

13 The CAPM results using the historical Ibbotson data range from 6.10% to 7.52%.  
14 These results are shown on Exhibit No.\_\_\_\_(RAB-11).

15 **Conclusions and Recommendations**

16 **Q. Please summarize the cost of equity you recommend the Commission adopt for**  
17 **Tampa Electric.**

18 A. I recommend that the Commission adopt the DCF model I developed and the cost of  
19 equity estimates for the comparison group of electric utility companies that I  
20 compiled. The results for the electric company comparison group using the constant-  
21 growth DCF model and the expected growth rate forecasts ranged from 8.73% to

1 9.32%. Based on this range of results, I recommend that the Commission adopt a  
2 9.30% return on equity for Tampa Electric in this proceeding, which is at the top end  
3 of reasonable returns established by these estimates of investor required ROEs. I  
4 offer this recommendation to the Commission as a just and reasonable estimate of  
5 investor return on equity requirements for an electric utility such as Tampa Electric.

6  
7 Finally, it should be noted that most of the CAPM results are significantly lower than  
8 the DCF results in this proceeding. This is especially the case with the historical  
9 formulation of the CAPM. I do not rely on the CAPM for my ROE  
10 recommendation, but these results suggest that my recommended ROE of 9.30% is  
11 generous based on current capital market conditions.

12 **Capital Structure and Weighted Cost of Capital**

13 **Q. Did you review Tampa Electric's requested capital structure?**

14 A. Yes. The Company's requested capital structure and weighted cost of capital is  
15 presented in Schedule D-1A and is supported by the Direct Testimony of Tampa  
16 Electric witnesses Hevert and Callahan. Tampa Electric's proposed equity ratio for  
17 purposes of this case is 54.2%.

18 **Q. How does Tampa Electric's proposed level of equity compare to the equity**  
19 **levels for the companies in your comparison group?**

20 A. Tampa Electric's proposed level of equity is significantly higher than the average of  
21 the companies in my comparison group. Table 2 below presents the common equity

1 ratios for the comparison group. I obtained the data from the Value Line Investment  
 2 Survey and from AUS Utility Reports, July 2013.

3

**TABLE 2**  
**COMPARISON GROUP CAPITAL STRUCTURES**

	2012 Value Line Common <u>Equity</u>	AUS Common <u>Equity</u>
1 American Electric Power Co.	49.4%	45.0%
2 Black Hills Corporation	56.8%	49.5%
3 Cleco Corporation	54.4%	53.1%
4 CMS Energy Corporation	31.6%	30.1%
5 Consolidated Edison, Inc.	54.1%	49.8%
6 Dominion Resources, Inc.	38.2%	33.4%
7 Great Plains Energy Incorporated	54.4%	46.1%
8 Hawaiian Electric Industries, Inc.	53.1%	47.4%
9 Otter Tail Corp.	54.4%	54.6%
10 Pepco Holdings, Inc.	52.7%	42.3%
11 Pinnacle West Capital Corp.	55.4%	53.0%
12 SCANA Corporation	45.6%	43.7%
13 UIL Holdings Corporation	41.1%	38.9%
14 UNS Energy Corp.	37.7%	37.0%
15 Westar Energy, Inc.	48.8%	45.7%
16 Wisconsin Energy Corporation	<u>48.0%</u>	44.9%
 Average	 48.5%	 44.7%

Source: Value Line Reports 2013; AUS Utility Reports, July 2013

4

5

6 It is clear from Table 2 that Tampa Electric's equity ratio greatly exceeds the average  
 7 equity ratio of the comparison group. This suggests that Tampa Electric's lower  
 8 financial risk relative to the comparison group should result in a lower required  
 9 return on equity by investors in Tampa Electric. However, for purposes of this case,  
 10 I will recommend an ROE for Tampa Electric consistent with the ROE results from

1 the comparison group. This underscores the reasonableness of my ROE  
 2 recommendation for Tampa Electric in this proceeding.

3 **Q. Please provide Tampa Electric's proposed capital structure and your**  
 4 **calculation of its weighted cost of capital.**

5 **A. Please refer to Table 3 below for the calculation of my recommended weighted cost**  
 6 **of capital for Tampa Electric. Using the Company's requested capital structure, the**  
 7 **weighted cost of capital is 5.91%.**

8

**TABLE 3**  
**HUA ADJUSTED WEIGHTED COST OF CAPITAL**

	<u>Amount</u>	<u>Pct.</u>	<u>Cost</u>	<u>Weighted Cost</u>
Long-Term Debt	\$1,525,392	35.15%	5.40%	1.90%
Short-term Debt	\$24,646	0.57%	1.47%	0.01%
Customer Deposits	\$112,864	2.60%	2.20%	0.06%
Preferred Stock	\$0	0.00%	0.00%	0.00%
Common Equity	1,833,899	42.26%	9.30%	3.93%
ADIT	835,173	19.24%	0.00%	0.00%
Tax Credits	<u>7,999</u>	<u>0.18%</u>	8.54%	<u>0.02%</u>
Totals	\$4,339,973	100.00%		5.91%

9

**IV. RESPONSE TO TAMPA ELECTRIC TESTIMONY**

1

2 **Q. Have you reviewed the Direct Testimony of Mr. Robert Hevert?**

3 A. Yes.

4 **Q. Please summarize Mr. Hevert's testimony and approach to return on equity.**

5 A. Mr. Hevert employed three methods to estimate the investor required rate of return  
6 for Tampa Electric: (1) the constant growth DCF model, (2) the CAPM, and (3) the  
7 bond yield plus risk premium model. On page 19 of his Direct Testimony, Mr.  
8 Hevert explained that he relied on the results of the constant growth DCF model and  
9 considered the CAPM and risk premium approaches as "corroborating  
10 methodologies." Mr. Hevert also devoted Section VII of his Direct Testimony to a  
11 discussion of business risks facing Tampa Electric. In Section VIII, Mr. Hevert  
12 included a discussion of current capital market conditions and analyzed yield spreads  
13 in support of his 11.25% ROE recommendation.

14

15 With respect to the DCF model, Mr. Hevert developed a proxy group consisting of  
16 eleven companies using several selection criteria. His constant growth DCF results  
17 ranged from 8.80% to 13.19%.

18

19 With respect to the CAPM, Mr. Hevert's results ranged from 7.42% to 12.20%.

20

21 Finally, Mr. Hevert's formulation of the bond yield plus risk premium approach  
22 resulted in a ROE range of 10.23% to 10.76%.

1

2

Based on the results of his analyses and judgment, Mr. Hevert recommended a ROE

3

range for Tampa Electric of 10.50% to 11.50%, concluding that the cost of equity for

4

Tampa Electric is 11.25%

5 **Q.**

**Please summarize your conclusions with respect to Mr. Hevert's ROE recommendation of 11.25%.**

6

7 **A.**

Mr. Hevert's analyses systematically overstated the investor required ROE for a

8

regulated electric company such as Tampa Electric.

9

10

First, Mr. Hevert included proxy company growth rates that are excessive and

11

unrepresentative of investor expected long-run growth rates for regulated electric

12

utility companies like Tampa Electric. Adjusting Mr. Hevert's DCF analysis to

13

remove these excessive growth rates appreciably lowers his DCF ROE.

14

15

Second, Mr. Hevert's CAPM range of results is biased upward by using forecasted

16

Treasury Bond yields. Forecasted bond yields are not appropriate for formulating a

17

CAPM ROE. Instead, current market bond yields should be used because they

18

reflect current investor expectations and market return requirements. Mr. Hevert's

19

CAPM results using the current Treasury Bond yield are similar to mine, although he

20

should also have used the 5-year Treasury Bill as an appropriate proxy for the risk-

21

free rate of return. Mr. Hevert also included a CAPM analysis using the Sharpe

22

ratio, which is an inappropriate modification to the traditional CAPM analysis that

23

should be rejected by the Commission.



1

2 Third, Mr. Hevert's bond yield plus risk premium analysis is also inflated by using  
3 forecasted bond yields. In addition, the risk premium method is far less precise than  
4 the DCF method, which uses current market data that are more reflective of investor  
5 required returns today.

6

7 **DCF Analyses**

8 **Q. Please summarize Mr. Hevert's approach to the DCF model and its results.**

9 A. Mr. Hevert began his DCF analysis with the selection of a proxy group of  
10 companies. Mr. Hevert discusses his approach and the selection criteria he used  
11 beginning on page 14 of his Direct Testimony. After applying these screening  
12 criteria, Mr. Hevert went on to eliminate Edison International and Integrys Energy  
13 Group. His final proxy group of eleven companies is presented on page 17 of his  
14 Direct Testimony.

15 **Q. What are Mr. Hevert's DCF ROE results using this proxy group?**

16 A. Mr. Hevert summarized his DCF results on pages 26 and 27 of his Direct Testimony.  
17 The proxy group results range from 8.80% to 13.19%.

18 **Q. Do these ranges represent reasonable estimates of the investor-required roe for  
19 a company like Tampa Electric?**

20 A. No. Mr. Hevert's DCF results are significantly overstated.

21 **Q. What is the main cause of Mr. Hevert's overstatement of the DCF model?**

1 A. The main cause is Mr. Hevert's inclusion of excessive earnings growth forecasts that  
2 significantly bias his DCF results upward.

3

4 As I mentioned in Section III of my Direct Testimony, I omitted PNM Resources  
5 from my comparison group of electric companies. This is due to excessive, non-  
6 constant earnings and dividend growth rates currently being forecasted by Value  
7 Line for PNM. Mr. Hevert's Exhibit No. \_\_\_ (RBH-1), Document No. 2 clearly  
8 bears this out, with a Value Line earnings growth estimate of 16.00%. Including this  
9 growth rate in his DCF analysis biased his ROE result upward.

10

11 This is also the case for Otter Tail Corp. Mr. Hevert included a Value Line earnings  
12 growth estimate of 24.0% in his DCF ROE calculations, again biasing his results  
13 substantially upward.

14

15 Growth rates of 16% and 24% have no place in a DCF ROE analysis for regulated  
16 electric utilities. These growth rates are clearly the product of special circumstances  
17 with PNM Resources and Otter Tail and should be excluded from Mr. Hevert's  
18 analysis. Given the evidence concerning expected growth rates for my comparison  
19 group, 16% and 24% earnings growth rates are in no way representative of investors'  
20 anticipated performance for Tampa Electric.

21 **Q. Did you prepare an analysis that adjusted for the excessive growth rates and**  
22 **resulting ROEs that you just discussed?**

23 A. Yes. Please refer to Table 4, which presents adjusted results for Mr. Hevert's DCF  
24 analyses. I developed this table using Mr. Hevert's spreadsheet that was provided as

1 part of his work papers. I chose to use the DCF ROE results from the 180-day  
 2 average of stock prices for Mr. Hevert's group because I also used a six-month  
 3 average of stock prices in my comparison group DCF analysis. Excluding Otter Tail  
 4 and PNM Resources results in an average DCF ROE of 9.62%.

**TABLE 4**  
**ADJUSTED HEVERT GROUP DCF ROE**

Company	Mean ROE
American Electric Power Company, Inc.	7.76%
Cleco Corp.	7.98%
Empire District Electric	12.79%
Great Plains Energy Inc.	10.81%
IDACORP, Inc.	6.93%
Otter Tail Corporation	16.90%
Pinnacle West Capital Corp.	11.29%
PNM Resources, Inc.	14.19%
Portland General Electric Company	7.91%
Southern Company	9.38%
Westar Energy, Inc.	11.76%
Group Average	10.70%
Group Average excl. Otter Tail and PNM	9.62%

5  
 6 **Q. Are the revised results in Table 4 still overstated?**

7 A. Yes. They are overstated because Mr. Hevert did not include Value Line's dividend  
 8 growth forecasts. Currently, Value Line is forecasting lower near-term dividend  
 9 growth than earnings growth. As may be seen from the results in my Exhibit  
 10 No.\_\_\_\_(RAB-9), median and average dividend growth for my comparison group is  
 11 3.31% and 4.29%, respectively. This is much lower than the earnings growth rates I  
 12 used in my analysis, which range from 5.17% to 5.95%.

13 With respect to regulated utility companies, dividend growth provides the primary  
 14 source of cash flow to the investor. It is certainly the case that earnings growth fuels

1 dividend growth and should be considered in estimating the ROE using the DCF model.  
2 However, Value Line's dividend growth forecasts are widely available to investors and  
3 can reasonably be assumed to influence their expectations with respect to growth. I  
4 weighted earnings growth 75% and dividend growth 25% in my growth calculations,<sup>7</sup>  
5 so I acknowledge that earnings growth is the primary factor considered by investors.  
6 But it should not be considered the only factor.

7 **Q. What are the current dividend growth rates for the companies in Mr. Hevert's**  
8 **proxy group?**

9 A. Table 5 below presents the Value Line projected dividend growth rates for the  
10 companies in Mr. Hevert's proxy group excluding PNM Resources. The average  
11 dividend growth rate for his proxy group is 4.91% and the median growth rate is  
12 3.62%.

---

7 In other words, my average comparison group growth rate averaged three earnings growth estimates and one dividend growth estimate.

**TABLE 5  
 HEVERT PROXY GROUP  
 DIVIDEND GROWTH RATES**

<u>Company</u>	<u>V/L Dividend Growth</u>
American Electric Power Company, Inc.	4.09%
Cleco Corp.	10.00%
Empire District Electric	3.50%
Great Plains Energy Inc.	6.00%
IDACORP, Inc.	7.00%
Pinnacle West Capital Corp.	3.62%
Portland General Electric Company	3.50%
Southern Company	3.50%
Westar Energy, Inc.	<u>3.00%</u>
Average	4.91%
Median	3.62%

1

2 **Q. What would be the resulting DCF ROE using the average dividend growth**  
 3 **rate?**

4 A. Excluding PNM Resources and Otter Tail, Mr. Hevert's proxy group dividend yield  
 5 using the 180-day average stock price would be 4.11%. The resulting DCF ROE  
 6 would then be:

7  
 8  $4.11\% * (1 + (0.5 * 4.91\%)) + 4.21\% =$   
 9  $4.21\% + 4.91\% =$   
 10 **9.12% DCF ROE**

11

12 **CAPM**

13 **Q. Briefly summarize Mr. Hevert's approach to estimating the CAPM ROE.**

14 A. On page 30 of his Direct Testimony, Mr. Hevert testified that he used three estimates  
 15 of the yield on 30-year Treasury Bonds as proxies for the risk-free rate: the current

1 30-day average yield of 3.12%, a near-term projected yield of 3.25%, and a long-  
2 term projected yield of 5.10%. Mr. Hevert did not consider any shorter maturity  
3 bonds, such as the 5-year Treasury note.

4  
5 Mr. Hevert then calculated two different ex-ante measures of total market returns.  
6 The first utilized an estimated total market return on the S&P 500 based on data from  
7 Bloomberg and Capital IQ. Total market returns from these two sources were rather  
8 close, with a 13.00% market return using Bloomberg data and a 12.93% return using  
9 Capital IQ data. The second utilized an approach that employed Mr. Hevert's  
10 estimate of the Sharpe ratio applied to the historical market risk premium of 6.60%,  
11 which resulted in an estimated market risk premium of 6.03%.

12  
13 Mr. Hevert used two different estimates for beta: Bloomberg and Value Line.

14  
15 Using the current 30-year Treasury bond yield, Mr. Hevert's CAPM results ranged  
16 from 7.42% to 10.22%. Using the forecasted long-term 30-year Treasury bond yield,  
17 his results ranged from 9.41% to 12.20%. CAPM results using the near-term  
18 projected bond yield did not differ significantly from the results using the current  
19 bond yield.

20 **Q. Is it appropriate to use forecasted or projected bond yields in the CAPM?**

21 **A.** No. Current interest rates embody all of the relevant market data and expectations of  
22 investors, including expectations of changing future interest rates. The forecasted  
23 Treasury bond yields used by Mr. Hevert are speculative at best and may or may not

1           come to pass. Current interest rates present tangible market evidence of investor  
2           return requirements today, and these are the interest rates that should be used in both  
3           the CAPM and in the bond yield plus risk premium analysis. To the extent that  
4           investors give forecasted interest rates any weight at all, they are already  
5           incorporated in current securities prices.

6   **Q.   Should Mr. Hevert have considered shorter term Treasury yields in his CAPM**  
7   **analyses?**

8   A.   Yes. In theory, the risk-free rate should have no interest rate risk. 30-year Treasury  
9   Bonds do tend to face this risk, which is the risk that interest rates could rise in the  
10   future and lead to a capital loss for the bondholder. Typically, the longer the  
11   duration of the bond, the more interest rate risk will increase. The 5-year Treasury  
12   note has much less interest rate risk than 20-year or 30-year Treasury Bonds and may  
13   be considered one reasonable proxy for a risk-free security. My CAPM analysis  
14   shows that the ROE using a 5-year Treasury note would be only 9.16%. This is  
15   much lower than any of the CAPM estimates provided by Mr. Hevert.

16   **Q.   Do you agree with adjusting the historical risk premium using the Sharpe ratio?**

17   A.   No, I do not. Mr. Hevert's use of the Sharpe ratio substantially deviates from  
18   common formulations of the CAPM and, in my view, it is highly unlikely that  
19   investors would use such an unorthodox method to derive their expected market risk  
20   premium and CAPM return. Mr. Hevert provided no support that investors actually  
21   use the Sharpe ratio in the manner he put forward in his Direct Testimony. I  
22   recommend that the Commission reject Mr. Hevert's alternative CAPM using the  
23   Sharpe ratio.

1 **Risk Premium**

2 **Q. Please summarize Mr. Hevert's risk premium approach.**

3 A. Mr. Hevert developed a historical risk premium using Commission-allowed returns  
4 for regulated utility companies and 30-year Treasury bond yields from 1980 through  
5 February 13, 2013. He used regression analysis to estimate the value of the inverse  
6 relationship between interest rates and risk premiums during that period. His Exhibit  
7 No. \_\_\_ (RBH-1), Document No. 6 shows the risk premium return on equity to be in  
8 a range of 10.23% to 10.74%. The 10.74% result was derived using Mr. Hevert's  
9 projected Treasury Bond yield of 5.10%.

10 **Q. Please respond to Mr. Hevert's risk premium analysis.**

11 A. First, the bond yield plus risk premium approach is imprecise and can only provide  
12 very general guidance on the current authorized ROE for a regulated electric utility.  
13 Risk premiums can change substantially over time. As such, this approach is a  
14 "blunt instrument," if you will, for estimating the ROE in regulated proceedings. In  
15 my view, a properly formulated DCF model using current stock prices and growth  
16 forecasts is far more reliable and accurate than the bond yield plus risk premium  
17 approach, which relies on a historical risk premium analysis over a certain period of  
18 time.

19

20 Second, I recommend that the Commission reject the use of the forecasted Treasury  
21 bond yield of 5.10% for the same reasons I described in my response to Mr. Hevert's  
22 CAPM approach.



1 **Other ROE Considerations**

2

3 **Q. On page 45 of his Direct Testimony, Mr. Hevert concluded that Tampa**  
4 **Electric's capital spending program suggested an ROE above the mean results**  
5 **of his cost of equity analyses. Do you agree?**

6 **A. No. The Commission should not inflate Tampa Electric's ROE due to its capital**  
7 **spending program.**

8

9 First, my ROE analyses do not support an ROE above 9.30% for Tampa Electric in  
10 today's capital markets. In this low interest rate environment, an 11.25% ROE can in  
11 no way be justified on the basis of current financial market evidence.

12

13 Second, any risk regarding the Company's capital spending program has already  
14 been accounted for in its BBB+/A3 bond ratings. By estimating the cost of equity  
15 using companies with similar bond ratings, the resulting ROE will need no further  
16 upward adjustment. Notably, besides the screens used to select his proxy group, Mr.  
17 Hevert did not perform any company by company study of the risks of the proxy  
18 companies he selected. Exhibit No. \_\_\_ (RAB-7) at pp. 2-3. In other words, he has  
19 not performed a comprehensive analysis to determine whether Tampa Electric is  
20 more risky than the proxy group he selected and should therefore be provided a ROE  
21 at the high end of his range of returns. Neither he, nor other Tampa Electric  
22 witnesses testifying concerning Tampa Electric's capital expenditures and rate of  
23 return, performed any study to compare the magnitude of Tampa Electric's  
24 forecasted capital expenditures with those of other electric utilities or the proxy

1 group. Exhibit No. \_\_\_\_ (RAB-7) at pp. 4-7. In fact the only document that Tampa  
2 Electric could produce that purportedly compared Tampa Electric's forecasted  
3 capital expenditures to other utilities, actually compared TECO Energy's (not Tampa  
4 Electric) forecasted capital expenditures to other electric utility holding companies.  
5 Exhibit No. \_\_\_\_ (RAB-7) at pp. 8-12. In addition, that study showed that TECO  
6 Energy's forecasted capital expenditures (1) in 2013 were the 27th highest (in the  
7 lowest quintile), (2) in 2014 were the 24th highest (*i.e.*, in the bottom third), and (3)  
8 in 2015 were the 28th highest (again in the lowest quintile) out of 34 holding  
9 companies. Exhibit No. \_\_\_\_ (RAB-7) at p. 10.

10  
11 Third, it is important to note that Tampa Electric's 54.2% equity ratio is far higher  
12 than the average common equity ratio of my comparison group, which ranges from  
13 44.7% to 48.5%. Given Tampa Electric's higher equity ratio, a further upward  
14 adjustment to the ROE is not justifiable. Obviously, investors would be pleased with  
15 a ROE of 11.25%, but Florida ratepayers would have to shoulder a burdensome  
16 increase in rates to support this ROE, compared to the 9.3% I recommend. I suggest  
17 to the Commission that my recommended 9.3% ROE represents a fair and reasonable  
18 balance of interests between ratepayers and shareholders. Notably, in May 2013,  
19 TECO Energy provided a presentation to investors suggesting that it expects that its  
20 cash flow will be sufficient to "[s]upport Tampa Electric's capital spending program  
21 without issuing equity." Exhibit No. \_\_\_\_ (RAB-6) at p. 6. In May 2012, TECO  
22 Energy asserted that it "expects to generate significant free cash flow after dividends

1 for the next several years” and that it expected “cash generation to retire 2015 debt.”  
2 Exhibit No. \_\_\_\_ (RAB-6) at p. 12.

3  
4 Tampa Electric’s purported need for a high common equity ratio and ROE to support  
5 its “financial integrity” is also not supported by the Company. Prior to filing its  
6 testimony, Tampa Electric failed to “quantify or compare the costs and benefits of  
7 maintaining or enhancing Tampa Electric’s ‘financial integrity.’ ” Exhibit No. \_\_\_\_  
8 (RAB-7) at p. 13; *see* Exhibit No. \_\_\_\_ (RAB-7) at pp. 14-18.

9  
10 Despite not studying the costs and benefits, Tampa Electric increased its investor  
11 sourced common equity ratio from 47.12% in the first quarter of 2007 to 53.78% in  
12 the fourth quarter of 2012. Exhibit No. \_\_\_\_ (RAB-7) at p. 28. There is also a  
13 noticeable increase in Tampa Electric’s common equity ratio before it filed this rate  
14 case. From the first quarter of 2007 through the third quarter of 2012, Tampa  
15 Electric’s common equity ratio never exceeded 52.04%, but now that Tampa Electric  
16 has filed for an increase in base rates, its common equity ratio has increased to 54.2%.  
17 Exhibit No. \_\_\_\_ (RAB-7) at p. 28.

18 **Q. Beginning on page 45 of his Direct Testimony, Mr. Hevert discussed the need to**  
19 **reflect flotation costs in the allowed ROE, though he did not make a specific**  
20 **adjustment for flotation costs. Should the Commission add a flotation cost**  
21 **adjustment to the cost of equity for Tampa Electric?**

22 **A.** No. In my opinion, it is likely that flotation costs are already accounted for in current  
23 stock prices and that adding an adjustment for flotation costs amounts to double  
24 counting. A DCF model using current stock prices should already account for investor

1 expectations regarding the collection of flotation costs. Multiplying the dividend yield  
2 by a 4% flotation cost adjustment, for example, essentially assumes that the current  
3 stock price is wrong and that it must be adjusted downward to increase the dividend  
4 yield and the resulting cost of equity. I do not believe that this is an appropriate  
5 assumption. Current stock prices most likely already account for flotation costs, to the  
6 extent that such costs are even accounted for by investors.

7 In addition, TECO Energy recently stated that it will “[s]upport Tampa Electric’s  
8 capital spending program without issuing equity.” Exhibit No. \_\_\_ (RAB-6) at p. 6.

9 **Q. On page 64 of his direct testimony, Mr. Hevert concluded that simply observing**  
10 **that long-term Treasury rates are at historically low levels is not a sufficient**  
11 **level of analysis to conclude that the cost of equity for regulated utilities is at a**  
12 **“commensurately low level.” Please respond to Mr. Hevert's position here.**

13 **A.** Although utility ROEs may not have fallen in lock step with Treasury bond yields,  
14 these lower yields indicate that required returns on common equity are indeed lower  
15 than they otherwise would be if Treasury yields were higher. Utility company stocks  
16 are interest rate sensitive and required returns tend to rise and fall with the general  
17 movement of interest rates.

18  
19 Mr. Hevert's Exhibit No. \_\_\_ (RBH-1), Document No. 6 also provides support for  
20 the proposition that required ROEs are lower than they were during the time of  
21 Tampa Electric's last rate case. According to the allowed ROE data in Exhibit No.  
22 \_\_\_ (RBH-1), Document No. 6, the average allowed ROE from August 2008 through  
23 April 2009 was 10.5%. I would note that Tampa Electric's allowed ROE of 11.25%  
24 was by far the highest Commission-allowed ROE during that period. During 2013,

1 the average allowed ROE was 9.75%. Thus, allowed ROEs have declined in  
2 connection with the decline in Treasury bond yields since the Company's last rate  
3 proceeding, although they have not declined as much.

4

5 In conclusion, current market evidence and recent Commission allowed returns all  
6 show that Mr. Hevert's recommended ROE of 11.25% for Tampa Electric is  
7 excessive, unreasonable, and should be rejected by the Commission.

8 **Q. Does this complete your prepared direct testimony?**

9 **A. Yes.**

**BEFORE THE**  
**FLORIDA PUBLIC SERVICE COMMISSION**

**IN RE: PETITION FOR RATE INCREASE BY     ) DOCKET NO. 130040-EI**  
**TAMPA ELECTRIC COMPANY                     )**

**DIRECT TESTIMONY OF STEPHEN J. BARON**

**I. INTRODUCTION**

1

2

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

4 A. My name is Stephen J. Baron. My business address is J. Kennedy and Associates, Inc.  
5 ("Kennedy and Associates"), 570 Colonial Park Drive, Suite 305, Roswell, Georgia  
6 30075.

7

8 **Q. What is your occupation and by whom are you employed?**

9 A. I am the President and a Principal of Kennedy and Associates, a firm of utility rate,  
10 planning, and economic consultants in Atlanta, Georgia.

1 **Q. Please describe briefly the nature of the consulting services provided by Kennedy and**  
2 **Associates.**

3 A. Kennedy and Associates provides consulting services in the electric and gas utility  
4 industries. Our clients include state agencies, large consumers of electricity and other  
5 market participants. The firm provides expertise in system planning, load forecasting,  
6 financial analysis, cost-of-service, and rate design. Current clients include the Georgia and  
7 Louisiana Public Service Commissions, and consumer groups throughout the United States.

8

9 **Q. Please state your educational background.**

10 A. I graduated from the University of Florida in 1972 with a B.A. degree with high honors in  
11 Political Science and significant coursework in Mathematics and Computer Science. In  
12 1974, I received a Master of Arts Degree in Economics, also from the University of Florida.  
13 My areas of specialization were econometrics, statistics, and public utility economics. My  
14 thesis concerned the development of an econometric model to forecast electricity sales in the  
15 State of Florida, for which I received a grant from the Public Utility Research Center of the  
16 University of Florida. In addition, I have advanced study and coursework in time series  
17 analysis and dynamic model building.

18

19 **Q. Please describe your professional experience.**

20 A. I have more than thirty years of experience in the electric utility industry in the areas of cost  
21 and rate analysis, forecasting, planning, and economic analysis.

22

23 Following the completion of my graduate work in economics, I joined the staff of the

1 Florida Public Service Commission ("Commission") in August of 1974 as a Rate  
2 Economist. My responsibilities included the analysis of rate cases for electric, telephone,  
3 and gas utilities, as well as the preparation of cross-examination material and the preparation  
4 of staff recommendations.

5  
6 In December 1975, I joined the Utility Rate Consulting Division of Ebasco Services, Inc. as  
7 an Associate Consultant. In the seven years I worked for Ebasco, I received successive  
8 promotions, ultimately to the position of Vice President of Energy Management Services of  
9 Ebasco Business Consulting Company. My responsibilities included the management of a  
10 staff of consultants engaged in providing services in the areas of econometric modeling, load  
11 and energy forecasting, production cost modeling, planning, cost-of-service analysis,  
12 cogeneration, and load management.

13  
14 I joined the public accounting firm of Coopers & Lybrand in 1982 as a Manager of the  
15 Atlanta Office of the Utility Regulatory and Advisory Services Group. In this capacity I  
16 was responsible for the operation and management of the Atlanta office. My duties included  
17 the technical and administrative supervision of the staff, budgeting, recruiting, and  
18 marketing as well as project management on client engagements. At Coopers & Lybrand, I  
19 specialized in utility cost analysis, forecasting, load analysis, economic analysis, and  
20 planning.

21  
22 In January 1984, I joined the consulting firm of Kennedy and Associates as a Vice President  
23 and Principal. I became President of the firm in January 1991.



1 During the course of my career, I have provided consulting services to numerous industrial,  
2 commercial, Public Service Commission and utility clients, including international utility  
3 clients.

4  
5 I have presented numerous papers and published an article entitled "How to Rate Load  
6 Management Programs" in the March 1979 edition of "Electrical World." My article on  
7 "Standby Electric Rates" was published in the November 8, 1984 issue of "Public Utilities  
8 Fortnightly." In February of 1984, I completed a detailed analysis entitled "Load Data  
9 Transfer Techniques" on behalf of the Electric Power Research Institute, which published  
10 the study.

11  
12 I have presented testimony as an expert witness in Arizona, Arkansas, Colorado,  
13 Connecticut, Florida, Georgia, Indiana, Kentucky, Louisiana, Maine, Michigan, Minnesota,  
14 Maryland, Missouri, New Jersey, New Mexico, New York, North Carolina, Ohio,  
15 Pennsylvania, Texas, Utah, Virginia, West Virginia, Wisconsin, Wyoming, before the  
16 Federal Energy Regulatory Commission ("FERC"), and in United States Bankruptcy Court.  
17 A list of my specific regulatory appearances can be found in Baron Exhibit \_\_\_\_ (SJB-1).

18  
19 **Q. Do you have previous experience in regulatory proceedings before the Commission?**

20 **A.** Yes. Initially in my career, as a Staff member of the Commission, I was involved in rate  
21 proceedings involving many of the electric utilities in the State of Florida, including Tampa  
22 Electric Company ("Tampa Electric," "TECO," or "Company"). Since that time, I have  
23 been involved in a number of Progress Energy and Florida Power and Light Company

1 ("FPL") rate proceedings as well as a generic DSM proceeding for all Florida electric  
2 utilities.

3  
4 **Q. On whose behalf are you testifying in this proceeding?**

5 A. I am testifying on behalf of the WCF Hospital Utility Alliance ("HUA"), a group of  
6 hospitals taking service from Tampa Electric.

7  
8 **Q. What is the purpose of your testimony?**

9 A. I will address issues associated with Tampa Electric's proposed 12 Coincident Peak and  
10 50% Average Demand ("12 CP and 50% AD") class cost of service study for production  
11 plant. As I will discuss, the Company's proposed class cost of service methodology to  
12 allocate fixed production costs is not reasonable and produces an unjustified cost shift to the  
13 general service demand ("GSD" or "general service demand") class.

14  
15 The Company also has proposed to utilize a minimum distribution system ("MDS" or  
16 "minimum distribution system") methodology to classify and allocate distribution function  
17 costs. The Company's testimony appears to support the use of that methodology only if the  
18 Commission adopts the Company's proposed 12 CP and 50% AD class cost of service  
19 study. However, an interrogatory response provided by Tampa Electric witness William  
20 Ashburn appears to clarify that it is the Company's intent to support the use of the MDS  
21 methodology regardless of the class cost of service methodology the Commission requires  
22 for production plant. I strongly support the use of an MDS methodology. I will discuss  
23 the Company's MDS analysis and recommend that it be adopted by the Commission in this

1 case regardless of the class cost of service methodology the Commission requires.

2  
3 While Tampa Electric has presented a 12 CP and 1/13<sup>th</sup> AD class cost of service study, the  
4 Company did not include its MDS distribution cost classification and allocation  
5 methodology in this study. Though I generally believe it would be most appropriate to use a  
6 winter peak or a summer/winter peak methodology to allocate Tampa Electric's fixed  
7 production costs to rate classes, I will present a 12 CP and 1/13<sup>th</sup> AD methodology that  
8 incorporates the Company's MDS methodology for allocating distribution costs and  
9 recommend adoption of this study by the Commission in this case.

10  
11 I will also discuss Tampa Electric's proposed revenue allocation to rate classes of its  
12 requested \$133.645 million base rate revenue increase.<sup>1</sup> While I do not oppose the  
13 Company's general methodology to allocate the approved revenue increase to rate classes,  
14 the specific allocation proposed by Tampa Electric, which is based on its recommended  
15 class cost of service methodology, is not reasonable. I will present a more accurate revenue  
16 allocation based on the HUA recommended 12 CP and 1/13<sup>th</sup> AD + MDS analysis cost of  
17 service study.

18  
19 Finally, I will address Tampa Electric's proposed general service rate class rate design.  
20 Specifically, I discuss the proposed increases to the GS energy and demand charges and will  
21 recommend an alternative based on cost of service unit cost results.

---

<sup>1</sup> Tampa Electric's total revenue increase request is \$134.841 million, comprised of a \$133.645 million base rate increase and a \$1.194 million increase in service charges.

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**Q. Would you summarize your conclusions and recommendations?**

**A. Yes.**

- Tampa Electric has based its proposed rate class increases on the results of its 12 CP and 50% Average Demand cost of service study. As I discuss in this testimony, the Company's proposal is unreasonable and not supported by any substantial evidence. Tampa Electric's proposal is not consistent with cost causation and has not been justified by the Company in this case. The main attribute of Tampa Electric's proposed 12 CP and 50% AD methodology is to shift costs without sufficient justification to general service demand customers. The Commission should adopt a 12 CP and 1/13<sup>th</sup> AD production demand method in this case.**
- Tampa Electric has developed a reasonable Minimum Distribution System analysis to classify and allocate distribution costs to rate classes. This study follows the methodologies discussed by the National Association of Regulatory Utility Commissions ("NARUC") in its Electric Utility Cost Allocation Manual and is also consistent with widely used distribution cost of service methods adopted by regulatory commissions in other states. The Company's MDS study should be adopted by the Commission, together with a 12 CP and 1/13<sup>th</sup> AD production demand allocation method. The MDS analysis demonstrates that existing rates, without recognition of the minimum costs of connecting/serving a customer, will cause GSD customers to subsidize other customers.**

- 1
- 2 • Any Commission approved revenue increase in this case should be apportioned
- 3 to rate classes based on the results of the HUA recommended 12 CP and 1/13<sup>th</sup>
- 4 AD + MDS class cost of service study so that class rate of return parities are set
- 5 to 1.0, subject to the restriction that no rate class receives an increase greater
- 6 than 150% of the system average base rate increase and that no class receives a
- 7 rate decrease.

- 8
- 9 • Tampa Electric's proposed General Service Demand class rate design should be
- 10 modified to provide a more reasonable balance between the proposed increases
- 11 in the energy charges and the demand charge of the rate, following unit cost of
- 12 service results.

13 **II. COST ALLOCATION ISSUES**

14

15 **Q. Have you reviewed the class cost of service studies filed by Tampa Electric in this**

16 **case?**

17 **A. Yes.** Consistent with the instructions for the Minimum Filing Requirements ("MFR"),

18 Tampa Electric has prepared a 12 CP and 1/13<sup>th</sup> average demand based cost of service study

19 in this case, but also has developed a 12 CP and 50% AD methodology. The Company

20 recommends adoption by the Commission in this case of the 12 CP and 50% AD method.

21 Tampa Electric also proposes a minimum distribution system methodology to classify and

22 allocate distribution costs if the Commission adopts its recommended 12 CP and 50% AD

23 method.

1

2 **Q. Do you agree with the Company's class cost of service proposals?**

3 A. In part. While I support the Company's proposed adoption of the MDS method to classify  
4 and allocate distribution costs, I strongly oppose Tampa Electric's recommendation to  
5 utilize a 12 CP and 50% AD methodology to allocate fixed production demand costs. I will  
6 address Tampa Electric's MDS methodology more fully in a subsequent section of my  
7 testimony.

8

9 With regard to Tampa Electric's 12 CP and 50% AD proposal, this production demand  
10 method is not supportable by any reasonable economic analysis or principle and simply  
11 results in a substantial cost shift to the general service class. Tampa Electric witness  
12 Ashburn's testimony does not provide any reasonable basis to adopt this method beyond a  
13 general observation that energy usage is a factor in determining what type of generation to  
14 install (i.e., base load vs. intermediate vs. peaking). However, there is no evidence  
15 presented to justify assigning 50% of fixed production demand related costs on the basis of  
16 rate class energy use, including energy use during off-peak periods as opposed to any other  
17 percentage, or to demonstrate that assignment of 50% of fixed production costs on the basis  
18 of energy use is more appropriate than an assignment of 8% as would occur under the 12  
19 CP and 1/13<sup>th</sup> AD class cost of service methodology the Commission has required for FPL  
20 and which the Commission has required other utilities to present in their MFRs. In fact, it  
21 appears that the cost shifting that occurs from this method may be one of the "principles"  
22 used by the Company. This is suggested by Tampa Electric's request for adoption of a 12  
23 CP and 50% AD methodology, but lack of any analysis of whether a 12CP and 50% AD

1 methodology is consistent with cost causation on Tampa Electric's system.

2  
3 As I will discuss, this production cost allocation methodology unreasonably assigns fixed  
4 generation costs to higher load factor general service demand class customers who  
5 efficiently use the Company's generating capacity at relatively consistent levels throughout  
6 the day and throughout the year, therefore helping to defray the cost of such capacity. The  
7 price signals that would be sent to customers, if the Company's recommended methodology  
8 were adopted, would be counter to the efficient use of the Company's costly generating unit  
9 resources. It links off-peak energy usage to generation resource additions. That link, of  
10 course, is contrary to logic and erroneous. Off peak use of the utility's generation resources  
11 helps defray the fixed costs of those assets that otherwise would have to be recovered from  
12 peak period use.

13  
14 **Q. Would you discuss the problems that you have identified with Tampa Electric's**  
15 **proposed 12 CP and 50% AD production demand allocation method?**

16 **A.** The 12 CP and 50% AD method is essentially a 50/50 demand/energy weighted allocation  
17 method. Its proponents generally argue that energy use or system load factor impacts the  
18 economic tradeoffs among the types of generation resources selected to meet customer  
19 demands. These advocates argue that the higher cost of base load capacity is only incurred  
20 because of the fuel savings that are provided by a base load (or intermediate load) resource  
21 relative to a simple cycle combustion turbine. Thus, the 12 CP and 50% AD method can  
22 generally be thought of as a substitution of capital investment in lieu of burning higher cost  
23 fuel in peaking units. The "capital substitution" methodology is a production cost allocation

1 method that attempts to capture the economic trade-offs between high capital cost base load  
2 (or, perhaps intermediate load) generating resources that have lower operating costs (*i.e.*,  
3 lower fuel costs/mWh due to fuel type or lower heat rates), versus lower capital cost  
4 resources (such as simple cycle combustion turbines) that have higher operating costs (*i.e.*,  
5 higher fuel costs due to use of oil or natural gas, or higher heat rates). The concept  
6 underlying the “capital substitution” method is that higher energy use creates incentives to  
7 substitute higher capital cost resources for lower capital cost resources – thus, creating a  
8 linkage between energy use and capital costs.

9  
10 **Q. How is the principle of “cost causation” used to develop a class cost of service**  
11 **analysis?**

12 **A.** As described on page 38 of the NARUC Electric Utility Cost Allocation Manual, “Cost  
13 causation is a phrase referring to an attempt to determine what, or who, is causing the  
14 costs to be incurred by the utility.” In order to assess each rate class’ share of total  
15 jurisdictional costs, all of the Company’s costs are first functionalized into the major  
16 functions provided by the utility: production, transmission, distribution and customer  
17 related costs (such as customer accounting). For example, production costs, which would  
18 include generation plant in service, depreciation reserves and other rate base related costs,  
19 depreciation expense, O&M expenses, fuel and purchased power are assigned to the  
20 production function. Once functionalized, these costs are then classified as either  
21 demand related, energy related, or customer related. Finally, the functionalized and  
22 classified costs are then allocated to rate classes based on allocation factors tied to cost  
23 causation. Fixed demand related costs are generally caused by the need for generation



1 resources to meet peak demands; energy related costs, such as fuel expenses, are caused  
2 by the total amount of energy use of each rate class.

3  
4 **Q. Does Tampa Electric's testimony in this case in support of its proposed 12 CP and**  
5 **50% AD method provide any substantive evidence to justify allocation of 50% of the**  
6 **Company's fixed production demand costs on the basis of energy?**

7 A. No. Tampa Electric witness Ashburn simply asserts that it reflects some measure of cost  
8 responsibility, but offers no specific evidence. He also cites as support the conclusion  
9 that the increase in the percentage of average demand in the production demand  
10 allocation factor from 8% using the 12 CP and 1/13<sup>th</sup> AD method to 25% under Tampa  
11 Electric's last approved method "resulted in a reduced revenue requirement allocation to  
12 the residential and small commercial rate classes" and that the proposed increase in the  
13 percentage to 50% "will further reduce that allocation."<sup>2</sup> A large, if not controlling,  
14 rationale for the Company's proposal in this case appears to be the end result, which is a  
15 cost shift to large customers. But simply deciding to switch cost responsibility, without a  
16 substantive link to cost incurrence, is not supported by traditional ratemaking and is thus  
17 not a good ratemaking policy.

18  
19 **Q. Why is it important to perform a reasonable allocation of costs to rate classes?**

20 A. There are a number of reasons to do so. First, economic efficiency requires that rates  
21 reflect underlying costs. For example, while one could just divide Tampa Electric's total  
22 fuel costs by the number of customers on the system and send each customer a uniform

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<sup>2</sup> Ashburn Direct Testimony at page 33.

1 bill, that approach would clearly be unfair and result in a substantial misallocation of  
2 resources by overpricing energy related fuel costs to most customers and under-pricing it  
3 to higher load factor customers. Cost causation dictates that these energy related costs be  
4 assigned on the basis of the energy (kWh) use of each rate class. Similarly, fixed demand  
5 related costs, such as the return on generation plant investment and fixed production  
6 O&M are incurred by the utility to meet the peak demand of its customers. Once these  
7 plants are constructed, these demand related costs are fixed and do not vary with the  
8 amount of energy used by customers. As a result, economic efficiency is best achieved  
9 by allocating fixed demand related costs on the basis of class peak demand.

10  
11 In addition to economic efficiency, a related reason for allocating costs on the basis of  
12 cost causation is to prevent cross-subsidization of one rate class by another. Cross-  
13 subsidization occurs when one set of customers pays in excess of cost and another pays  
14 less than the cost of serving that set of customers.

15  
16 Tampa Electric is proposing that this Commission adopt a methodology that classifies  
17 half of all of the Company's fixed production costs as demand related, compared to the  
18 current Tampa Electric method that classifies 75% of fixed production costs as demand  
19 related, which is already 25% less than strict cost causation would dictate. Strict cost  
20 causation, absent any other evidence to the contrary, would argue for a coincident peak  
21 allocator to assign cost responsibility for fixed, demand related costs. In the case of  
22 Tampa Electric, such an allocator would be a winter CP allocator or a combined  
23 winter/summer CP allocator. At a minimum, production demand related fixed costs

1 should be allocated on the basis of 12 CP. The Commission has adopted a 12 CP and  
2 1/13<sup>th</sup> allocator in many prior electric utility rate cases. While this allocator does include  
3 a small energy component, the practical effect of the 12 CP and 1/13<sup>th</sup> AD allocator is  
4 very close to a 100% demand 12 CP allocation method.

5  
6 Moreover, Tampa Electric already classifies the Polk Unit 1 gasifier and the Big Bend  
7 Unit 4 scrubber as 100% energy. Its new proposal in this case further moves additional  
8 fixed production demand costs (rate of return, depreciation, fixed O&M expense) to an  
9 energy allocation. This means that customer usage in off-peak hours, weekends, off-peak  
10 months are deemed to cause the Company to install additional generation resources.  
11 There is no evidence to support this assertion; rather, the evidence refutes it.

12  
13 **Q. What evidence refutes Tampa Electric's purported justification for allocating 50% of**  
14 **fixed production costs as energy-related?**

15 **A.** The theory relied on by Tampa Electric --"capital substitution"-- is that higher capital cost  
16 resources are procured because of the fuel savings, and those resources benefit customers  
17 relative to basic simple cycle combustion turbines (Ashburn Direct Testimony at page 32).  
18 While it is true that the Company has a substantial amount of coal fired generation, it has  
19 had this capacity for many years. The relevant price information that should be conveyed to  
20 Tampa Electric's customers must be premised on forward looking economic decisions, not  
21 decisions that were made 20 or 30 or more years ago. Tampa Electric's most recently  
22 installed base load coal unit became commercial in 1985 and was planned in the early  
23 1980's. Its other coal units (Big Bend 1-3) became commercial beginning in 1970.

1 During this period, such factors as the Fuel Use Act that precluded or discouraged the  
2 installation of gas fired generation may have had a significant impact on the decisions  
3 regarding the type of generating capacity that was added to Tampa Electric's system. The  
4 "Powerplant and Industrial Fuel Use Act" was signed into law in 1978. Its key  
5 provisions prohibited the use of natural gas or petroleum as an energy source in any new  
6 electric power plant and prohibited the construction of any new electric power plant  
7 without the capability to use coal or any alternate fuel as a primary energy source. It  
8 would make no economic sense to send price signals to Tampa Electric's customers in  
9 2014, based on economic relationships and/or government policies that existed 44 years  
10 ago but which are vastly different today.

11  
12 Based on Tampa Electric's recently filed 10-Year Site Plan, the Company is planning on a  
13 combination of Combined Cycle Gas Turbines ("CCGT") and simple cycle Combustion  
14 Turbines ("CT") as feasible generation resource additions in the future. This is consistent  
15 with my experience for other utilities throughout the U.S., including FPL. With  
16 environmental restrictions (in particular the Environmental Protection Agency ("EPA")  
17 Green House Gas New Source Performance Standards for Coal Units rulemaking) and  
18 lower natural gas prices, new coal fired power plants are not economic compared to CCGT  
19 and CT resources. To test the reasonableness of Mr. Ashburn's testimony in support of  
20 Tampa Electric's recommended 12 CP and 50% AD method, I developed a set of screening  
21 curves that evaluate the relative economics of a higher cost CCGT compared to a CT.

22  
23 **Q. Would you describe the specific analysis that you developed?**

1 A. Table 1 below summarizes CCGT and CT costs based on the U.S. Department of Energy,  
2 Energy Information Administration ("EIA") Annual Energy Outlook forecast for 2013  
3 ("AEO 2013"). This forecast, which is prepared annually by EIA, provides projections of a  
4 significant number of energy industry metrics, including the U.S. electric utility industry.  
5 As part of its forecast, EIA prepares a set of assumptions that are incorporated into its  
6 models. Among these assumptions are a set of capital and operating costs for CCGT and  
7 CT generation resources. The data summarized in Table 1 is contained in EIA's January  
8 2013 report entitled "Levelized Cost of New Generation Resources" in the Annual Energy  
9 Outlook 2013. Baron Exhibit \_\_ (SJB-2) contains an excerpt from this report.

10

	<u>Conventional Combined Cycle</u>	<u>Advanced Combustion Turbine</u>
Capacity Factor	87.0%	30.0%
Capital	15.8	30.4
Fixed O&M	1.7	2.6
Var O&M + Fuel	<u>48.4</u>	<u>68.2</u>
Total	65.9	101.2
Total Capital Cost/mW	\$ 120,415	\$ 79,891
Fixed O&M/mW	<u>\$ 12,956</u>	<u>\$ 6,833</u>
Total Fixed Cost/mW	\$ 133,371	\$ 86,724
Total Variable Cost/mWh	\$ 48.40	\$ 68.20

\*Source: Energy Information Administration Annual Energy Outlook 2013, "Levelized Cost of New Generation Resources."

11

12

13

The cost data presented in Table 1, as noted in the table, are levelized \$2011 costs for a

1 Conventional CCGT and an Advance CT, both with a commercial operation date of 2018.  
2 This comparison provides a reasonable estimate of the economic trade-offs between lower  
3 and higher capital cost resources. As shown in the table, the annual levelized fixed cost of a  
4 conventional CCGT is \$133/kW, while for an Advanced CT the annual levelized fixed cost  
5 is \$87/kW. The variable operating costs of the two resources are \$48/mWh and \$68/mWh  
6 respectively. Using this information, a screening curve comparison can be developed to  
7 identify the breakeven capacity factor or “hours use” of a kW of capacity between the two  
8 resources. A screening curve is a cost curve for the resource, reflecting both fixed costs  
9 (capital, O&M expense) and variable costs (fuel, variable O&M expense) at various  
10 capacity factor (hours use) levels. It is designed to compare the cost of alternative resources  
11 at different usage levels. Table 2 shows the resulting all-in levelized costs at various  
12 capacity factors.<sup>3</sup>

---

<sup>3</sup> The EIA data is presented in terms of constant dollar (\$2011) levelized costs for ease of comparison.

<u>Capacity Factor</u>	<u>mWh</u>	<u>Total Busbar Cost</u>	
		<u>CCGT</u>	<u>CT</u>
4.0%	350	\$ 429.03	\$ 315.70
5.0%	438	\$ 352.90	\$ 266.20
10.0%	876	\$ 200.65	\$ 167.20
15.0%	1,314	\$ 149.90	\$ 134.20
20.0%	1,752	\$ 124.53	\$ 117.70
26.8%	2,348	\$ 105.21	\$ 105.14
30.0%	2,628	\$ 99.15	\$ 101.20
35.0%	3,066	\$ 91.90	\$ 96.49
40.0%	3,504	\$ 86.46	\$ 92.95
45.0%	3,942	\$ 82.23	\$ 90.20
50.0%	4,380	\$ 78.85	\$ 88.00
55.0%	4,818	\$ 76.08	\$ 86.20
60.0%	5,256	\$ 73.78	\$ 84.70
65.0%	5,694	\$ 71.82	\$ 83.43
70.0%	6,132	\$ 70.15	\$ 82.34
75.0%	6,570	\$ 68.70	\$ 81.40
80.0%	7,008	\$ 67.43	\$ 80.58
85.0%	7,446	\$ 66.31	\$ 79.85
90.0%	7,884	\$ 65.32	\$ 79.20
95.0%	8,322	\$ 64.43	\$ 78.62
100.0%	8,760	\$ 63.63	\$ 78.10

1  
2 For example, the CCGT resource has a \$2011 levelized total cost of \$78.85 at a 50%  
3 capacity factor. This means that the CCGT would cost \$78.85 per kW if it were operated  
4 for 4,380 hours per year. The CT cost, at the same 4,380 hour of operation would cost  
5 \$88.00 per kW.

6  
7 As shown in Table 2, the breakeven hours-use of the conventional CCGT and the advanced  
8 CT occurs at a capacity factor of 26.8%, which correlates with 2,348 hours of usage during  
9 the year. For operation at 2,348 hours or below, the CT is less costly, while for operation  
10 above 2,348 hours, the CCGT is less costly due to its lower heat rate (btu/kWh).

1  
2 **Q. What are the cost of service implications of this screening curve analysis with regard**  
3 **to the 12 CP and 50% AD methodology?**

4 A. The screening curve economic comparison shows that beyond 2,348 hours of annual  
5 operation (27% of the hours of the year), the CCGT is less expensive and would be selected  
6 as the least cost resource. As long as the system's energy needs required the generation  
7 resource to operate at least 2,348 hours during the year, the least cost resource is the CCGT.  
8 Energy usage beyond 2,348 mWh per mW has no impact on the economic decision to select  
9 the higher capital cost CCGT resource (over the lower capital cost CT). Thus, from a cost  
10 of service/cost responsibility standpoint, any energy usage in hours greater than the top  
11 2,348 peak hours during the year do not "cause" the higher capital costs of the CCGT  
12 resource (compared to the CT). Translating this into a class cost responsibility framework,  
13 energy usage in the remaining 6,432 hours during the year does not impose any additional  
14 capital costs on the system. This result is particularly important in assessing the  
15 reasonableness of the Company's proposed 12 CP and 50% AD method, which assigns  
16 fixed generation resource costs to rate classes on the basis of the classes' average demand  
17 during all 8,760 hours of the year. The screening curve economic analysis shows that  
18 energy usage in the 6,432 hours beyond the breakeven hours (2,348) is not responsible for  
19 any additional CCGT capacity costs (*i.e.*, those CCGT capital costs in excess of CT capital  
20 costs). Assigning 50% of all Tampa Electric fixed generation costs on the basis of class  
21 average demand, based on a theory that customers with higher load factors are causing these  
22 higher CCGT costs to be incurred, is contrary to the economic evidence of cost  
23 responsibility that shows that kWh energy usage in excess of a system-wide 26.8% load



1 factor does not influence the decision concerning what type of generating unit to install.  
2 Perhaps that is why the Company does not base its request for use of the 12CP and 50% AD  
3 methodology on a cost causation analysis.  
4

5 **Q. Is there additional evidence that shows that larger customers with higher load factors,**  
6 **such as those that take service under the GSD rate schedule, do not cause the**  
7 **incurrence of the excess CCGT costs in proportion to their annual energy usage?**

8 A. Yes. That is evident when one examines consumption patterns during the months that  
9 experience the highest load hours of the year as compared to the consumption patterns in  
10 other months.

11 **Q. In which months of the year do the highest 2,348 load hours occur?**

12 A. Using the hourly loads provided by Tampa Electric in response to The Florida Industrial  
13 Users Group First Set of Production of Documents request No. 3, I analyzed Tampa  
14 Electric's projected 2014 load data. Based on this analysis, the highest 2,348 hourly loads  
15 of the Company occur primarily in the summer months. Table 3 summarizes these results,  
16 together with the percentage share of energy usage for the residential class and for rate  
17 schedule GSD each month.  
18  
19  
20

Month	# of Hours	Distribution of Sales	
		RS	GSD
Jan	80	8.2%	7.7%
Feb	35	7.0%	7.3%
Mar	45	6.4%	7.4%
Apr	108	6.5%	7.8%
May	267	7.7%	8.2%
Jun	373	9.8%	9.1%
Jul	379	10.5%	9.2%
Aug	372	10.4%	9.1%
Sep	359	10.7%	9.5%
Oct	232	8.8%	8.8%
Nov	52	7.0%	8.1%
Dec	46	6.9%	7.9%
<b>Total</b>	<b>2,348</b>	<b>100.0%</b>	<b>100.0%</b>
<b>% Jun-Sep</b>	<b>63.2%</b>	<b>41.5%</b>	<b>36.8%</b>

1  
2  
3 As can be seen in the table, the majority of the “highest load hours” occur during the  
4 summer months of June through September (63% of these high load hours occur in this  
5 period). Because rate schedule GSD has a flatter annual usage pattern over the year (due to  
6 its higher than average load factor), GSD consumes a relatively lower proportion of its  
7 energy in the summer months, compared to the residential class. Stated differently, the  
8 swing in percentages between the highest and lowest months for residential customers (*i.e.*,  
9 10.7 - 6.4 = 4.3 percentage points) is nearly twice as large as that experienced in serving  
10 GSD (*i.e.*, 9.5 - 7.3 = 2.3 percentage points). It is also very important to recognize that  
11 these percentages for rates Residential (“RS”) and GSD summarize the total mWh during  
12 each month and do not differentiate between on-peak hours (when the highest loads occur)  
13 and off-peak hours. Most of the 2,348 hours that comprise the highest load hours occur

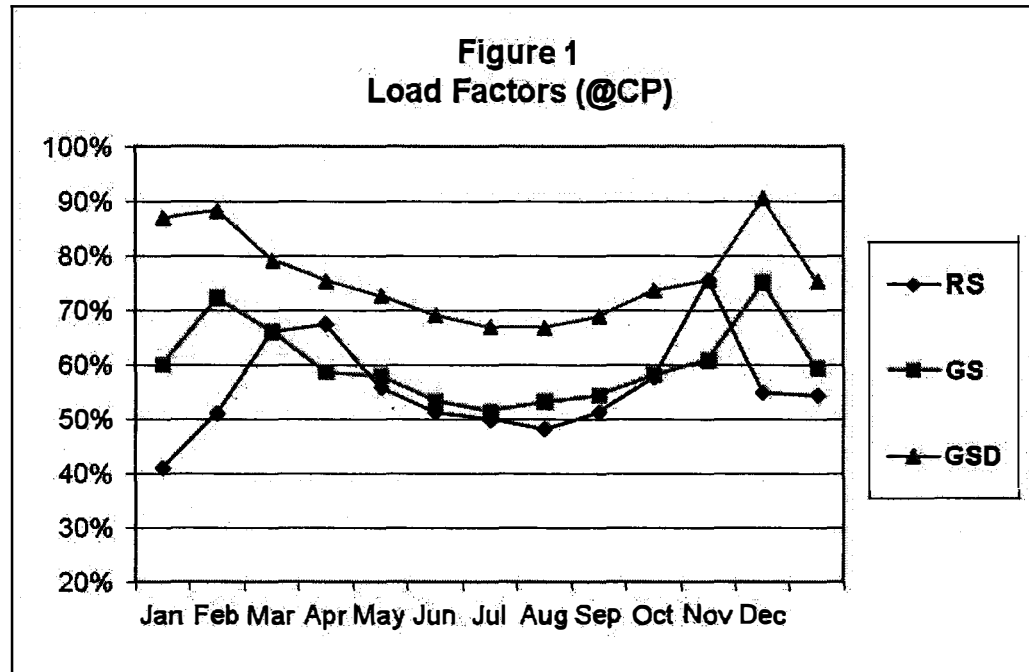
1 during the four-month period from June through September.<sup>4</sup> While I do not have the  
2 breakdown of mWh usage by rate class on a monthly on-peak/off-peak basis, it seems  
3 reasonable to conclude consistent with the data set forth in Table 3, that a higher load factor  
4 rate class, such as GSD, would have a smaller proportion of its monthly usage during the  
5 June through September period.<sup>5</sup> This means that GSD's responsibility for load during the  
6 highest 2,348 hours of the year is likely to be much smaller than its overall percentage of  
7 energy use during each month.

8  
9 Figure 1 contains an excerpt from the Company's workpapers that shows monthly  
10 coincident peak load factors for the residential, General Service Non-Demand ("GS") and  
11 GSD rate classes.

---

<sup>4</sup> While Tampa Electric is a traditionally winter peaking utility, there are many more high load hours during the summer months than during the winter months. The winter peaks tend to be short duration peaks driven by extreme weather, while the summer peaks are more extensive in duration.

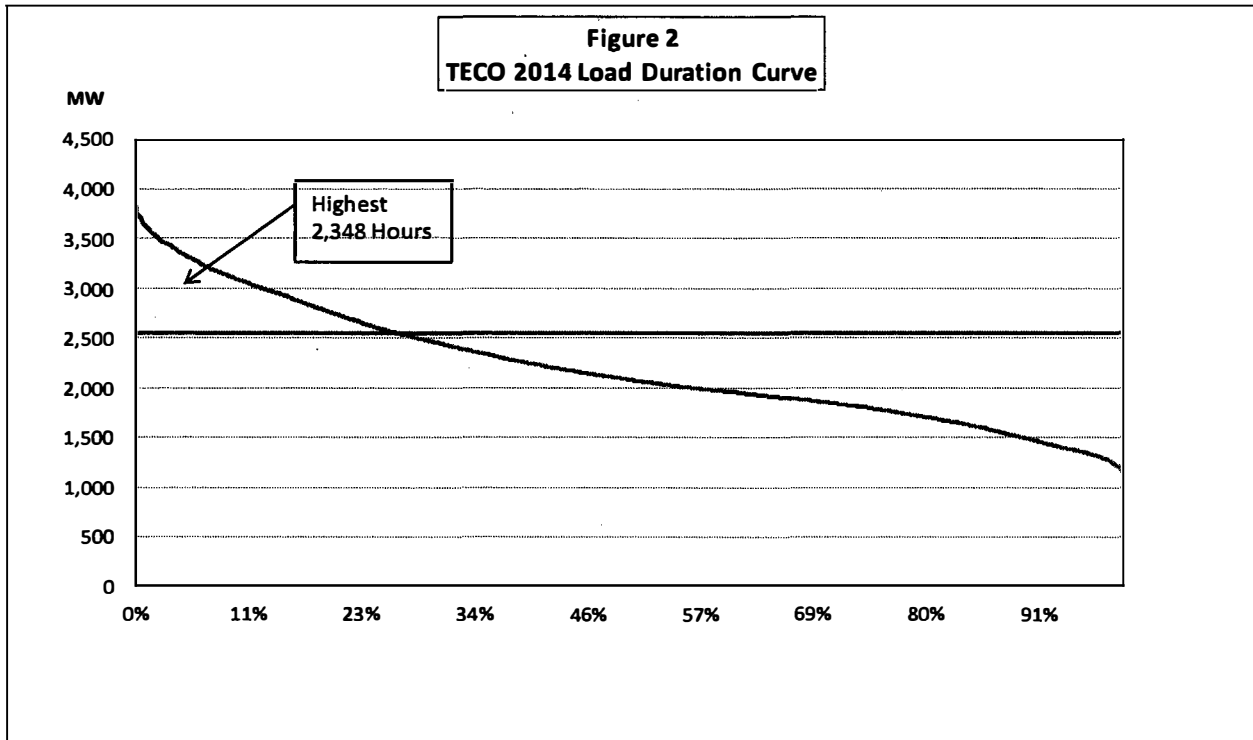
<sup>5</sup> At an extreme of 100% load factor, the percentage of a rate class would have the same hourly mWh each hour of the month. In this case, the percentage of monthly on-peak energy use is exactly the percentage of the number of on-peak hours during the month. For example, in July, the number of on-peak hours using a typical "5 X 16" weekday period would be about 49%.



1  
2 This confirms that the GSD class has higher monthly load factors, which means that the  
3 GSD class has a higher percentage of its monthly energy use relative to the RS and GS  
4 classes occurring in the months of October through May. As a result, the need for  
5 generating capacity to serve the significant loads that occur from June through September is  
6 caused to a large degree by the RS and GS rate classes, not GSD. Moreover, it is the  
7 extended duration of the need for that capacity that drives the decision to install CCGT,  
8 rather than CT, capacity.

9  
10 **Q. Do you have any additional evidence to support your contention that the RS and GS**  
11 **rate classes drive the need for CCGT, rather than CT, technology?**

12 **A.** Yes. Figure 2 below shows Tampa Electric's projected 2014 annual load duration curve  
13 using this same hourly load data. The data representing the highest 2,348 hours of load  
14 clearly demonstrate that only a small portion of the total annual energy usage by customers  
15 impacts the resource economics trade-off decision.

1  
2

3 **Q. Do these results demonstrate that using annual energy (“AD”) in the Company’s 12**  
4 **CP and 50% AD method improperly allocates cost?**

5 A. Yes. Because only energy usage during the highest 2,348 load hours of the year are  
6 relevant to generation resource trade-offs (*i.e.*, the trade-off discussed by Mr. Ashburn at  
7 page 32 of his testimony between high capital cost/low operating cost units and low capital  
8 cost/high operating cost units), and the fact that the higher load factor GSD customer class  
9 has a lower share of this energy, the 50% AD method is incorrect. If a 50% energy  
10 component is to be used, it should only be based on each class’s share of energy during the  
11 top 2,348 hours of the year. In addition, if such a method were to be adopted, the “demand”  
12 portion of the allocator should only be the peak month CP or perhaps the summer and  
13 winter peak month CPs, not CP demands in all 12 months. As a result, I could support a  
14 single CP or winter/summer CP methodology to allocate the fixed costs of production plant,

1 or an alternative methodology that allocates the fixed costs strictly on a demand basis. In  
2 any event, based on my analysis, I believe a 12 CP and 1/13<sup>th</sup> AD allocator would be far  
3 superior to the 12 CP and 50% AD methodology that Tampa Electric has proposed.  
4 Because the use of 12 CPs captures rate class usage during the 12 monthly peaks, plus the  
5 additional 1/13 energy (AD) component reflecting annual energy usage, this methodology,  
6 while still creating some subsidization by GSD customers, does a better job of capturing  
7 each rate class's cost responsibility for Tampa Electric's fixed production costs than Tampa  
8 Electric's proposed 12 CP and 50% AD methodology.

9  
10 **Q. Have you performed any additional analyses that demonstrate the unreasonableness**  
11 **of Tampa Electric's proposal?**

12 A. Yes. Using the same EIA levelized cost data from the AEO 2013 forecast, I developed a  
13 screening curve analysis that compares a Conventional CCGT with a Conventional CT.  
14 The Conventional CT has somewhat different cost characteristics than the Advanced CT  
15 that I used in the screening curve analysis that I presented in Tables 1 and 2. Tables 4 and 5  
16 summarize this analysis.

	<u>Conventional Combined Cycle</u>	<u>Conventional Combustion Turbine</u>
Capacity Factor	87.0%	30.0%
Capital	15.8	44.2
Fixed O&M	1.7	2.7
Var O&M + Fuel	<u>48.4</u>	80
Total	65.9	126.9
Total Capital Cost/mW	\$ 120,415	\$ 116,158
Fixed O&M/mW	<u>\$ 12,956</u>	<u>\$ 7,096</u>
Total Fixed Cost/mW	\$ 133,371	\$ 123,253
Total Variable Cost/mWh	\$ 48.40	\$ 80.00

\*Source: Energy Information Administration Annual Energy Outlook 2013, "Levelized Cost of New Generation Resources."

<u>Capacity Factor</u>	<u>mWh</u>	<u>Total Busbar Cost</u>	
		<u>CCGT</u>	<u>CT</u>
3.7%	320	\$ 465.52	\$ 465.48
5.0%	438	\$ 352.90	\$ 361.40
10.0%	876	\$ 200.65	\$ 220.70
15.0%	1,314	\$ 149.90	\$ 173.80
20.0%	1,752	\$ 124.53	\$ 150.35
26.8%	2,348	\$ 105.21	\$ 132.50
30.0%	2,628	\$ 99.15	\$ 126.90
35.0%	3,066	\$ 91.90	\$ 120.20
40.0%	3,504	\$ 86.46	\$ 115.18
45.0%	3,942	\$ 82.23	\$ 111.27
50.0%	4,380	\$ 78.85	\$ 108.14
55.0%	4,818	\$ 76.08	\$ 105.58
60.0%	5,256	\$ 73.78	\$ 103.45
65.0%	5,694	\$ 71.82	\$ 101.65
70.0%	6,132	\$ 70.15	\$ 100.10
75.0%	6,570	\$ 68.70	\$ 98.76
80.0%	7,008	\$ 67.43	\$ 97.59
85.0%	7,446	\$ 66.31	\$ 96.55
90.0%	7,884	\$ 65.32	\$ 95.63
95.0%	8,322	\$ 64.43	\$ 94.81
100.0%	8,760	\$ 63.63	\$ 94.07

1  
2  
3 Based on this screening curve analysis, the breakeven hours use at which the CCGT  
4 becomes less expensive than the CT is 320 hours. Essentially, the CT is only the economic  
5 choice for a narrow peak window (such as a weather spike driven winter peak). The  
6 conclusion from this analysis is that only energy use in the highest 320 hours of load during  
7 the year impact the decision to incur the higher cost of an intermediate CCGT resource.  
8 Energy use during the remaining 8,440 hours of the year have no bearing on this economic  
9 decision and thus would not be a cost causative factor for the incurrence of fixed production  
10 demand costs.



1 **Q. Based on your analysis, should the Commission adopt Tampa Electric's proposal to**  
2 **use a 12 CP and 50% AD method?**

3 A. No. There is no basis for the Company's proposal. It simply results in a substantial cost  
4 shift from the RS and GS rate classes to larger customers.

5  
6 **Q. Should the Commission adopt Tampa Electric's current 12 CP and 25% AD method**  
7 **in this case?**

8 A. No. First, the Company has not presented such a study in this case. More importantly, the  
9 12 CP and 25% AD suffers from the same problems that I have identified for the 12 CP and  
10 50% AD method, just not as severely. Nonetheless, there is no reasonable basis for the 12  
11 CP and 25% AD method. Rather, based on the Commission's preference for the 12 CP and  
12 1/13<sup>th</sup> AD methodology that it approved in numerous cases for FPL over the years (at least  
13 since 1983) and other Florida electric utilities, I recommend that the Commission adopt the  
14 12 CP and 1/13<sup>th</sup> AD for Tampa Electric as well. In a subsequent section of my testimony, I  
15 will present a 12 CP and 1/13<sup>th</sup> AD method that also incorporates Tampa Electric's MDS  
16 distribution cost allocation analysis.

17  
18 **Q. Does the Tampa Electric system's generation resource mix (capacity mix) justify the**  
19 **12 CP and 50% AD methodology, or even the 12 CP and 25% AD method?**

20 A. No. Based on data from the 2013 10-Year Site Plans filed by FPL and Tampa Electric, the  
21 Base/Intermediate load generation capacity mixes of the two utilities are about the same  
22 (79% for Tampa Electric, 71% for FPL). The Commission has consistently (at least since  
23 1983) found that the 12 CP and 1/13<sup>th</sup> AD method is appropriate for FPL. Based on the

1 composition of generation resources, this cost allocation methodology is also appropriate  
2 for Tampa Electric.

3  
4 **Q. Would you please discuss Tampa Electric's proposal to use a Minimum Distribution**  
5 **System methodology to classify and allocate distribution plant investment and**  
6 **expenses to retail rate classes?**

7 A. Yes. As discussed in Tampa Electric witness William Ashburn's testimony, the Company  
8 is proposing to utilize an MDS methodology to classify a portion of distribution plant and  
9 expenses as both demand related and customer related using a generally accepted method to  
10 identify the demand and customer components of FERC distribution plant accounts 364  
11 (poles), accounts 365 to 367 (overhead and underground conductors and conduit) and  
12 account 368 (transformers). Tampa Electric previously classified 100% of these  
13 distribution costs as demand related. I fully support the Company's proposed MDS  
14 recommendation in this case and believe that it is a valid, proper and reasonable approach  
15 for use in the class cost of service study.

16  
17 **Q. What is the basis, from a cost causation perspective, to classify these distribution costs**  
18 **as both demand and customer related?**

19 A. As described in the NARUC Electric Utility Cost Allocation Manual, the underlying  
20 argument in support of a customer component is that there is a minimal level of distribution  
21 investment necessary to connect a customer to the distribution system (lines, poles,  
22 transformers) that is independent of the level of demand of the customer.<sup>6</sup> The amount of

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<sup>6</sup> An excerpt from the NARUC manual that discusses the classification of distribution costs is contained in Baron Exhibit \_\_ (SJB-3).

1 distribution cost that is a function of the requirement to interconnect the customer,  
2 regardless of the customer's size, is appropriately assigned to rate classes on the basis of the  
3 number of customers, rather than on the kW demand of the class. As stated on page 90 of  
4 the NARUC cost allocation manual:

5 When the utility installs distribution plant to provide service to a  
6 customer and to meet the individual customer's peak demand  
7 requirements, the utility must classify distribution plant data separately  
8 into demand- and customer-related costs.  
9

10 **Q. Would you briefly explain the conceptual basis for a minimum distribution cost**  
11 **methodology?**

12 **A.** As discussed in the NARUC cost allocation manual, there are two approaches that are  
13 typically used to develop a customer component of distribution plant and expenses.  
14 Each methodology ("zero-intercept" and "minimum size") attempts to measure the  
15 customer component of various distribution plant accounts (e.g., poles, primary lines,  
16 secondary lines, line transformers, etc.). Each of the two methods is designed to estimate  
17 the component of distribution plant cost that is incurred by a utility to effectively  
18 interconnect a customer to the system, as opposed to providing a specific level of power  
19 (kW demand) to the customer. Essentially, the "minimum size methodology" represents  
20 the cost that would be incurred, irrespective of differences in the kW demand of a  
21 distribution customer. It is this cost, which is not related to customer usage levels, that is  
22 used to identify the portion of distribution costs that should be allocated to rate classes  
23 based on the number of primary and secondary distribution customers taking service in  
24 the class.

25

1 Conceptually, this analysis is designed to estimate the behavior of costs statistically, as  
2 the Company meets growth in both the number of distribution customers and the loads of  
3 these customers. For example, new distribution investment in poles, or underground  
4 conductors, for a new subdivision may be associated with unsold, or unoccupied homes  
5 that have “0” kW demand – yet the cost for these facilities is still incurred. Similarly,  
6 distribution facilities must be installed to meet the needs of part time residents that may  
7 have little or no demand during a portion of the year – yet the cost of such distribution  
8 facilities still must be incurred and does not vary as a result of the fact that such facilities  
9 serve part-time residents. The MDS methodology gives recognition to this circumstance  
10 by assigning a portion of the cost of these facilities based on the existence of a  
11 “customer,” and not just the level of the customer’s kW demand.

12  
13 **Q. Do other major electric utility operations in Florida incorporate minimum**  
14 **distribution system classifications in class cost of service studies?**

15 **A.** Yes. In a recent Gulf Power Company (“GPC”) rate case (Docket No. 110138-EI), GPC  
16 presented and strongly supported the use of an MDS methodology to develop its class  
17 cost of service study. GPC’s cost of service witness in that case, Michael O’Sheasy,  
18 testified in support of an MDS methodology as follows:

19 Q. Please explain why the Minimum Distribution System  
20 methodology is important to Gulf and its customers?  
21

22 A. As I discuss in more detail later, some costs of the distribution  
23 system beyond the customer meter and service drop do not vary  
24 with customers’ use of electricity. The Minimum Distribution  
25 System (MDS) methodology is necessary to accurately  
26 determine and allocate these customer-related distribution costs.  
27 The misclassification of costs that results from not using the  
28 MDS methodology sends misleading price signals to customers.

1 This misclassification also results in different customer rate  
2 classes bearing more or less costs than their cost-causative share  
3 of distribution costs. It is therefore important to examine these  
4 customer-related costs and classify them appropriately, which  
5 the MDS methodology enable us to do. [O'Sheasy Direct  
6 Testimony at pages 16 -17, Gulf Power Company Docket No.  
7 110138-EI].

8 **Q. Do you agree with Mr. O'Sheasy's quoted testimony on the MDS issue?**

9 **A.** Yes. There is no question that some portion of each of Tampa Electric's distribution  
10 accounts 364 to 368 is customer related. If a Tampa Electric customer were to decrease  
11 its usage to 0 kW, all of the poles, overhead conductors, underground conductors and  
12 transformers would not somehow disappear or be used to supply customers in other parts  
13 of the system. An MDS methodology recognizes this and reasonably reflects it in the  
14 Company's class cost of service study.

15  
16 **Q. Did the Commission adopt GPC's MDS methodology in Docket No. 110138-EI?**

17

1 A. It is my understanding, based on a review of the Commission's Order in that case, that  
2 the Commission approved a Stipulation adopting the methodology "solely for use in  
3 designing rates in this case." At least for that GPC case, the conceptual framework that  
4 some portion of distribution accounts 364 through 368 is customer related has been  
5 accepted, even if it is only for "use in designing rates" in that case.

6  
7 **Q. How do Tampa Electric's MDS results compare to the MDS classifications developed  
8 by GPC?**

9 A. As reported by Mr. Ashburn, Tampa Electric's analysis classifies 64% of poles, 9% of  
10 conductors and 24% of transformers as customer related. GPC's analysis of its distribution  
11 plant costs produced very similar results. Table 6 summarizes the comparison.

<u>Account</u>	<u>Description</u>	<u>TECO</u>		<u>Gulf Power Company</u>	
		<u>% Cust</u>	<u>% Dem</u>	<u>% Cust</u>	<u>% Dem</u>
364	Poles	64%	36%	65%	35%
365, 366, 367	Conductors	9%	91%	8% *	92%
368	Transformers	24%	76%	25%	75%

\* GPC % weighted by TECO plant-in-service for accounts 365 to 367.

12  
13  
14 **Q. Have regulatory commissions in other states adopted the minimum distribution  
15 system method?**

16 A. Yes. While I have not conducted a comprehensive study, a number of commissions have  
17 authorized the MDS methodology. Jurisdictions authorizing the MDS method for  
18 utilities in their states that I am specifically familiar with include: Wisconsin,

1 Pennsylvania, Kentucky, Virginia, Georgia, and Ohio.

2  
3 **Q. Do you believe that a minimum distribution system is appropriate for Tampa**  
4 **Electric?**

5 A. Yes. Given the importance of the cost of service results (parities) in setting rates, it is  
6 reasonable and appropriate for the Commission to adopt Tampa Electric's proposed MDS  
7 methodology. From a cost causation standpoint, the argument supporting this approach is  
8 that all of these minimal facilities are needed to interconnect a customer to the Tampa  
9 Electric system, including meeting minimum safety standards set forth in the National  
10 Electric Safety Code ("NESC"), which the Commission requires be adhered to for all  
11 Florida electric utilities.

12  
13 **Q. Have you developed a 12 CP and 1/13<sup>th</sup> AD cost of service study that incorporates**  
14 **Tampa Electric's MDS study to classify and allocate distribution costs?**

15 A. Yes. Using the Company's cost of service model, I modified Tampa Electric's filed 12 CP  
16 and 1/13<sup>th</sup> AD cost of service study to include the MDS analysis that Tampa Electric  
17 developed for its recommended 12 CP and 50% AD method. Baron Exhibit\_\_(SJB-4)  
18 contains a summary of this study. Table 7 summarizes the rate class rates of return and  
19 parities for this study and compares these results to the Company's 12 CP and 50% AD  
20 study, under current rates. It shows that when each rate class' contribution to the  
21 Company's return is measured in relation to each class' contribution to the Company's  
22 incurrence of costs, it is clear that the GSD rate class has been substantially over-  
23 contributing to Tampa Electric's return, and the RS class has been substantially under-

1 contributing.  
2

**Table 7**  
**Cost of Service Results with MDS**  
**@ Present Rate Revenues During Test Year Before Increase\***

	12CP & 1/13th		12CP & 50%	
	ROR	Index	ROR	Index
RS	4.10%	0.85	4.43%	0.92
GS	4.67%	0.97	4.84%	1.00
GSD	5.49%	1.14	5.06%	1.05
IS	9.95%	2.06	7.43%	1.54
LS ENERGY	6.42%	1.33	2.39%	0.49
LS FACILITIES	8.96%	1.85	8.96%	1.85
Total	4.84%	1.00	4.84%	1.00

\*These ROR Parity results reflect the revenues paid by each customer class at present rate levels, before the requested TECO rate increases, under the Company's proposed COS method compared to the HUA proposed 12 CP & 1/13th AD + MDS method.

3  
4  
5 **Q. To the extent that Mr. Ashburn, at page 34, lines 3 through 8 of his testimony, is**  
6 **arguing that the MDS methodology should only be adopted by the Commission if the**  
7 **Company's preferred 12 CP and 50% AD method is also adopted, would there be any**  
8 **basis to link these two methodologies in that manner?**

9 **A. No. First, the two methodologies are independent; the 12 CP and 50% AD method is**  
10 **associated with the allocation of fixed production costs, while the MDS method is used to**  
11 **allocate the cost of distribution facilities. Second, linking the two methodologies defies any**  
12 **concept of "principle" underlying the adoption of a class cost of service study. This**  
13 **rationale seems to be driven exclusively by the outcome of the cost allocation study, not its**  
14 **underlying reasonableness or how well it reflects cost causation.**



1 **Q. Has the Company provided any additional clarification to Mr. Ashburn's testimony on**  
2 **the appropriateness of employing the MDS methodology with the 12 CP and 1/13<sup>th</sup> AD**  
3 **or other production demand cost allocation methodologies?**

4 **A.** Yes. In its response to HUA's First Set of Interrogatories, Interrogatory No. 90, Mr.  
5 Ashburn confirms that he did not intend to state that the MDS methodology should only be  
6 employed if the 12 CP and 50% AD method is adopted. Baron Exhibit\_\_(SJB-5) contains a  
7 copy of this interrogatory response.

8

9 **III. ALLOCATION OF THE AUTHORIZED REVENUE INCREASE**

10

11 **Q. Have you reviewed Tampa Electric's proposed allocation of its requested \$133.645**  
12 **million revenue increase to rate classes?**

13 **A.** Yes. Tampa Electric's analysis is presented in Mr. Ashburn's Exhibit\_\_(WRA-1),  
14 Document No. 2. The allocation of the Company's requested increase follows the results of  
15 its recommended 12 CP and 50% AD + MDS cost of service study, such that each rate class  
16 is assigned an increase that Tampa Electric calculates would bring that rate class to parity  
17 with the System average rate of return, subject to two limitations: no class should receive a  
18 rate decrease and no class should receive an increase greater than 1.5 times the average  
19 increase. Based on Tampa Electric's preferred cost of service study, only the lighting class  
20 increase is impacted by the limitations.

21

22 **Q. Do you agree with Tampa Electric's general methodology to assign rate class increases**  
23 **in this case?**

1 A. Yes. However, since I am recommending an alternative cost of service study using the 12  
2 CP and 1/13<sup>th</sup> AD + MDS methodology, I have revised Tampa Electric's revenue allocation  
3 using the cost of service study results shown in my Exhibit\_\_(SJB-4). Baron  
4 Exhibit\_\_(SJB-6) contains the results of this revenue allocation analysis, which allocates the  
5 overall revenue increase to bring each rate class to a parity of 1.0, subject to a limitation that  
6 no rate class receives a decrease and that no class receives an increase greater than 1.5 times  
7 the retail average increase. The analysis shown in Exhibit\_\_(SJB-6) compares Tampa  
8 Electric's proposed revenue responsibility to that proposed by HUA, inclusive of HUA's  
9 recommended revenue requirement adjustments presented by Mr. Kollen. Table 8 below  
10 summarizes these increases.<sup>7</sup>

11

---

<sup>7</sup> The HUA revenue requirement adjustments presented by Mr. Kollen have been applied to Tampa Electric's requested \$133.645 million rate schedule increases. HUA has not taken a position on Tampa Electric's proposed \$1.194 million increase in service charges, which has not been adjusted.

Rate Class	TECO Proposed Increase		HUA Proposed Increase		Difference (HUA vs. TECO)	
	Increase \$	% Present Base Rev.	Increase \$	% Present Base Rev.	Increase \$	% Present Base Rev.
Residential (RS,RSVP) General Service Non-Demand (GS,TS)	\$ 94,742	17.30%	\$ 24,480	4.47%	\$ (70,262)	-12.83%
General Service Demand (GSD, SBF) Interruptible Service (IS)	\$ 37,168	11.64%	\$ 4,951	1.55%	\$ (32,217)	-10.09%
Lighting (LS-1) A. - Energy	\$ 1,737	31.78%	\$ 22	0.40%	\$ (1,716)	-31.38%
B. - Facilities	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%
<b>Total</b>	<b>\$ 133,647</b>	<b>14.72%</b>	<b>\$ 29,452</b>	<b>3.24%</b>	<b>\$(104,195)</b>	<b>-11.48%</b>

1  
2

3

4 **Q. Under your proposal, the GSD rate class would obtain a greater reduction in rates,**  
5 **relative to Tampa Electric's proposal than would be obtained by the RS and GS rate**  
6 **classes. Why is this occurring?**

7 **A.** That result is a consequence of moving each rate class closer to parity, which is the widely  
8 accepted goal in performing class cost of service/revenue apportionment analyses. That  
9 consequence also is not surprising in light of the class cost of service results that I presented  
10 in Table 7.

11

12 **Q. Are you recommending the apportionment of the Commission approved revenue**

1           **increase to rate classes based on the contribution to Tampa Electric's cost of service**  
2           **shown for each class in your Table 8?**

3    A.     Yes, with the caveat that these increases are based on HUA's recommended revenue  
4           requirement adjustments presented in the testimony of Mr. Kollen and Mr. Baudino. As  
5           summarized in Mr. Kollen's testimony, HUA is recommending that Tampa Electric be  
6           awarded an overall revenue increase in this case of no more than \$30.6 million. I  
7           recommend that the approved increase be allocated using the results of a compliance cost of  
8           service study based on the 12 CP and 1/13<sup>th</sup> AD + MDS methodology that I am  
9           recommending in this case. In the alternative, I recommend that the approved increase be  
10          allocated proportionately to the HUA increases shown in Table 8.

11

12

#### IV.    **RATE DESIGN ISSUES**

13

14    **Q.     Have you reviewed Tampa Electric's proposed GSD/GSDT rate design?**

15    A.     Yes. The Company is proposing a number of increases and decreases to various GSD and  
16           GSDT rate elements (customer, energy and demand charges) to recover its recommended  
17           GSD rate class increase. Table 9 below summarizes the increases proposed for GSDT.

18

<u>Charge</u>	<u>Present</u>	<u>Proposed</u>	<u>Unit Cost</u>	<u>% Increase</u>
<b>T-O-D</b>				
Secondary	\$ 57.00	\$ 30.00	\$ 28.21	-47.4%
Primary	\$ 130.00	\$ 130.00	\$ 126.56	0.0%
Subtransmission	\$ 930.00	\$ 990.00	\$ 987.60	6.5%
<b>Demand Charge - \$ per kW</b>				
<b>T-O-D</b>				
Base	\$ 2.84	\$ 3.23	\$ 3.31	13.7%
Peak	\$ 5.57	\$ 6.27		12.6%
<b>Energy Charge - \$ per MWh</b>				
<b>T-O-D</b>				
On-Peak	\$ 28.98	\$ 39.99		38.0%
Off-Peak	\$ 10.46	\$ 9.60	\$ 9.60	-8.2%

1  
2 The overall base rate increase proposed for rate GSDT is about 13.5%. However, the  
3 Company is proposing a 38% increase to the GSDT on-peak (non-fuel) energy charge,  
4 which is substantially above the unit cost of service (\$39.99/mWh vs. \$9.6/mWh). There is  
5 no unit cost of service difference associated with non-fuel variable cost between the on-peak  
6 and off-peak periods. Therefore, the unit energy cost for the on-peak period is also  
7 \$9.6/mWh.  
8

9 **Q. What process did Tampa Electric use to develop its GSD and GSDT rate design?**

10 **A.** According to the Company's workpapers, Tampa Electric designed GSD and GSDT jointly  
11 by first increasing the GSD demand charge by the overall GSD rate class increase, setting  
12 the off-peak GSDT demand charge at unit cost and then calculating the on-peak GSDT  
13 demand charge by taking the difference between the GSD demand charge and the GSDT  
14 off-peak demand charge. For the energy charges, the Company determined the GSD energy  
15 charge as the residual necessary to produce the GSD target revenues. The GSDT energy  
16 charges were developed jointly with the GSD energy charge by setting the off-peak energy

1 charge to unit cost of service and the on-peak GSDT energy charge using test year on and  
2 off-peak GSDT energy ratios.

3  
4 **Q. Do you believe that the Company's GSD/GSDT rate design is reasonable?**

5 A. No. As I noted, the proposed on-peak GSDT energy charge is more than 4 times larger than  
6 unit cost of service, which does not reflect any on/off-peak differentials. Because the GSDT  
7 energy charge represents non-fuel energy costs, there is no basis to impose such a large  
8 differential between the on and off-peak energy charges. A more reasonable approach in  
9 this case is to set the off-peak GSDT energy charge at unit cost, impose no increase to the  
10 already excessive on-peak GSDT energy charge and then solve for the remaining revenue  
11 requirements for rate GSD/GSDT by adjusting the on-peak demand charge (the off-peak  
12 demand charge is appropriately being set at unit cost in Tampa Electric's proposed rate,  
13 which is reasonable). Baron Exhibit \_\_ (SJB-7) summarizes my recommended rate design  
14 using this approach. This methodology, which is revenue neutral within the  
15 GSD/GSDT/SBFT rate class, places a higher priority on setting the energy charges at unit  
16 cost of service (or, in the case of the on-peak GSDT energy charge, moving towards cost of  
17 service) and then uses the demand charges as a residual to meet the overall GSD rate class  
18 revenue target.

19  
20 **Q. Does that complete your prepared testimony?**

21 A. Yes.

**I. QUALIFICATIONS AND SUMMARY**1  
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25**A. Qualifications****Q. Please state your name and business address.**

A. My name is Lane Kollen. My business address is J. Kennedy and Associates, Inc. ("Kennedy and Associates"), 570 Colonial Park Drive, Suite 305, Roswell, Georgia 30075.

**Q. What is your occupation and by whom are you employed?**

A. I am a utility rate and planning consultant holding the position of Vice President and Principal with Kennedy and Associates.

**Q. Please describe your education and professional experience.**

A. I earned a Bachelor of Business Administration in Accounting degree and a Master of Business Administration degree, both from the University of Toledo. I also earned a Master of Arts degree from Luther Rice University. I am a Certified Public Accountant, with a practice license, and a Certified Management Accountant.

I have been an active participant in the utility industry for more than thirty years, both as a consultant and as an employee. Since 1986, I have been a consultant with Kennedy and Associates, providing services to consumers of utility services and state and local government agencies in the areas of utility planning, ratemaking, accounting, taxes, financial reporting, financing and management decision-making. From 1983 to 1986, I was a consultant with

1 Energy Management Associates, providing services to investor and consumer  
2 owned utility companies in the areas of planning, financial reporting, financing,  
3 ratemaking and management decision-making. From 1976 to 1983, I was  
4 employed by The Toledo Edison Company in a series of positions providing  
5 services in the areas of planning, accounting, financial and statistical reporting  
6 and taxes.

7 I have appeared as an expert witness on utility planning, ratemaking,  
8 accounting, reporting, financing, and tax issues before state and federal regulatory  
9 commissions and courts on nearly two hundred occasions. In many of those  
10 proceedings, I have represented state and local ratemaking agencies or their  
11 Staffs, including the Louisiana Public Service Commission, Georgia Public  
12 Service Commission and various groups of Cities with original rate jurisdiction in  
13 Texas. I also have appeared before the Florida Public Service Commission  
14 (“Commission”) in numerous proceedings, including the four most recent Florida  
15 Power & Light Company base rate proceedings in Docket Nos. 120015-EI (2012),  
16 080677-EI (2009), 050045-EI (2005), and 001148-EI (2002). I have developed  
17 and presented papers at various industry conferences on ratemaking, accounting,  
18 and tax issues. My qualifications and regulatory appearances are further detailed  
19 in my Exhibit\_\_\_(LK-1).

20

21 **Q. On whose behalf are your testifying?**

22 A. I am providing testimony on behalf of the WCF Hospital Utility Alliance  
23 (“HUA”), a group of hospitals and healthcare facilities that take electric utility  
24 service from Tampa Electric Company (the “Company”).

25



1 **Q. What is the purpose of your testimony?**

2 A. The purpose of my testimony is to: 1) address and make recommendations  
3 regarding the operation and maintenance ("O&M") expense included in the  
4 Company's claimed revenue requirement, 2) quantify the effect of an adjustment  
5 to the other revenue included in the Company's claimed revenue requirement, and  
6 3) quantify the effect of HUA witness Mr. Richard Baudino's return on equity  
7 recommendation on the Company's claimed revenue requirement.

8  
9 **Q. Please summarize your testimony.**

10 A. I recommend that the Commission reduce the Company's claimed revenue  
11 requirement by \$40.898 million to reflect a reduction in O&M expense to a just  
12 and reasonable amount. From a "top-down" perspective, the Company's request  
13 is excessive and represents an 18.4% increase over 2012, the most recent year for  
14 which actual amounts are available. The Company's request reflects a wish list of  
15 increased spending and is not justified by the present economic realities or by the  
16 expansion of service or work-scope activities. After its last base rate case in  
17 2009, the Company initially reduced its O&M expense in 2010 and then carefully  
18 and successfully managed it through 2012 so that there essentially was no growth  
19 over that sustained period. The Company did so by implementing more efficient  
20 processes and investing in new systems to offset the effects of inflation and other  
21 growth drivers.<sup>1</sup> The Commission should direct the Company to continue this  
22 approach and limit any increase in O&M expense since 2012 to 4.7%, or a 2.3%  
23 annual growth rate to reflect the net effects of inflation, offset by the Company's

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<sup>1</sup> The costs of these investments and the investments that will be incurred in 2013 and 2014 are included in the Company's rate base in this proceeding and should continue to reap savings as well as allow the Company to achieve additional savings.

1 continuing and additional efficiency improvements, and to reflect limited growth  
2 in the expansion of work-scope requirements due primarily to government  
3 regulations.

4 I also address specific "bottoms-up" adjustments to the Company's  
5 proposed O&M expense in further support of my recommendation to limit the  
6 increase in O&M expense from a top-down perspective. More specifically, the  
7 following adjustments would be appropriate under a "bottoms-up"  
8 approach:

**Summary of HUA Issue-Specific O&M Expense Reductions  
(\$ Million)**

Reduce Big Bend Planned Maintenance Outage Expense to Reflect Historic Levels	\$7.145
Reduce Distribution Operation and Maintenance Expense to Reflect Historic Levels	5.317
Reject Increase in Performance Sharing Plan Incentive Compensation	5.304
Reject Stock Compensation Expense	5.084
Normalize Injuries and Damages Expense to Reflect Recent Historic Levels	1.728
Reduce Affiliate Charges in to Reflect TECO Energy Acq of New Mexico Gas Co.	2.900
Reduce Proposed Increase in Call Center Expense	1.575
Eliminate Proposed Increase in Uncollectible Accounts Expense	1.302
Reduce Proposed Increase in Legal Expenses	<u>1.521</u>
 Sum of HUA Issue-Specific Recommendations	 <u>\$31.876</u>

9  
10 In addition to my recommended reduction in O&M expense, I recommend  
11 that the Commission increase other revenues by \$4.920 million to reflect the fact  
12 that Calpine recently notified the Company of its intent to rollover a portion of its  
13 transmission load under the Company's Open Access Transmission Tariff  
14 ("OATT"). The Company incorrectly assumed that the Calpine load would be  
15 terminated in its filing.

16 Finally, I quantify the effect of Mr. Baudino's 9.3% return on equity  
17 recommendation compared to the Company's request for an 11.25% return on  
18 equity. The effect is a reduction in the Company's claimed revenue deficiency of

1       \$58.375 million, assuming no adjustments to rate base or adjustments to the  
2       Company's proposed capital structure. Each 1.0% return on equity is equivalent  
3       to \$29.936 million in the base revenue requirement, again, assuming no  
4       adjustments to rate base or capital structure. I also describe the additional effects  
5       of the return on equity on various clause revenue recoveries and on the cost of  
6       plant included in rate base and the related depreciation expense.

7               I address each of these issues in more detail in the same sequence that I  
8       summarized my recommendations.

9  
10       **II. O&M EXPENSE IS EXCESSIVE FROM BOTH A "TOP-DOWN"**  
11       **PERSPECTIVE AND BASED ON SPECIFIC "BOTTOMS-UP"**  
12       **ADJUSTMENTS**

13  
14       **A. O&M Expense is Excessive from a "Top-Down" Perspective**

15  
16       **Q. Please describe the O&M expense included in the Company's proposed**  
17       **revenue requirement.**

18       **A. The Company proposes \$354.531 million in O&M expense for the test year (on a**  
19       **jurisdictional basis), excluding amounts recovered outside of the base revenue**  
20       **requirement through the Fuel Adjustment Clause ("FAC"), Environmental Cost**  
21       **Recovery Clause ("ECRC"), and the Energy Conservation Cost Recovery Clause**  
22       **("ECCR"). The Company's O&M expense request is summarized on Schedule**  
23       **C-2 and is detailed on various schedules included in its filing.**

24

25

1 **Q. How does the Company's test year request for O&M expense compare to**  
2 **2012, the historical prior year?**

3 A. The Company's test year request for O&M expense reflects significant proposed  
4 growth compared to the actual historical prior year 2012. The Company proposes  
5 an increase of \$51.164 million on a total Company basis, or 16.3%, over the  
6 amount it actually incurred in 2012 (\$364.126 million less \$312.962 million).  
7 The Company provided its requested test year (2014), projected prior year (2013),  
8 and historical prior year (2012) O&M expense on a total Company basis, adjusted  
9 for proformas, and adjusted to exclude the O&M expense recovered through the  
10 various clauses on Schedule C-36 in its filing.

11 On a jurisdictional basis, the increase is even greater than on a total  
12 Company basis. The Company proposes an increase of \$54.985 million, or  
13 18.4%, in the test year compared to 2012. On a jurisdictional and adjusted  
14 proforma basis, the Company's projected test year O&M expense is \$354.531  
15 million compared to the actual \$299.546 million incurred in 2012. The Company  
16 provided the adjusted proforma O&M expense information by year on a  
17 jurisdictional basis in Document 16, an attachment to Mr. Chronister's Direct  
18 Testimony.

19

20 **Q. How does the Company's test year request for O&M expense compare to the**  
21 **pattern of actual O&M expense since 2009, the year of the Order in its last**  
22 **base revenue proceeding, through 2012?**

23 A. Since the Order in early 2009, the Company (through its parent company, TECO  
24 Energy, Inc.) restructured its operations in the second half of 2009, successfully

1 reduced its O&M expense in 2010 compared to 2009, and then managed and  
2 controlled its O&M expense so that it remained essentially flat through 2012.  
3 TECO Energy, Inc.'s 2009 SEC Form 10-K stated that mid-year it "announced  
4 organizational changes and a new senior executive team structure as part of its  
5 response to industry changes, economic uncertainties and its commitment to  
6 maintain a lean and efficient organization." [TECO Energy, Inc. 2009 10-K at  
7 164]. In his testimony in this proceeding, Company witness Mr. Brad Register  
8 describes the 2009 restructuring and the Company's "continuing desire to  
9 maintain a lean and efficient operation." [Register Direct Testimony at 7]. Mr.  
10 Register states:

11 the Florida operations were streamlined and integrated to capture  
12 efficiencies and synergies throughout the entire organization. This  
13 integration led to a net reduction of 169 positions at Tampa  
14 Electric without adversely affecting service to our customers. All  
15 areas and levels of the organization were affected, excluding front  
16 line personnel.  
17

18 [Register Direct Testimony at 7].

19 With respect to the Company's operating expenses, TECO Energy, Inc.'s  
20 2010 10-K stated:

21 [e]xcluding all FPSC-approved cost recovery clause-related  
22 expenses, the 2009 restructuring charges and the write-off of  
23 project development costs, operations and maintenance expense  
24 increased \$5.1 million in 2010, due to the accrual of performance-  
25 based incentive compensation for all employees partially offset by  
26 lower spending on generating unit maintenance and other savings  
27 as a result of the 2009 restructuring actions. Tampa Electric  
28 expects operation and maintenance expense, excluding fuel and  
29 purchased power, to decrease in 2011, assuming normal levels of  
30 employee incentive compensation accruals.  
31

32 [TECO Energy, Inc. 2010 10-K at 46-47].

33 TECO Energy, Inc.'s 2011 10-K stated:

1 [e]xcluding all FPSC-approved cost recovery clause-related  
2 expenses, operations and maintenance expense decreased \$23.6  
3 million driven primarily by lower accruals for performance-based  
4 incentive compensation for all employees and other benefit costs,  
5 lower power plant maintenance costs, and lower costs to operate  
6 and maintain the transmission and distribution system. Tampa  
7 Electric expects operations and maintenance expense to increase in  
8 2012 driven primarily by higher employee-related expenses, and  
9 higher costs to operate the transmission, distribution and power  
10 generating systems.

11  
12 [TECO Energy, Inc. 2011 10-K at 48].

13 In its 2012 10-K, TECO Energy, Inc. stated that with respect to the  
14 Company's electric operation results:

15 O&M expense, excluding all FPSC-approved cost-recovery  
16 clauses, increased \$11.8 million reflecting higher generating  
17 system maintenance expenses, higher costs to operate and maintain  
18 the distribution system and higher pension and other employee  
19 benefit expenses, partially offset by lower bad-debt expense.

20  
21 [TECO Energy, Inc. 2012 10-K at 40]. I have included these referenced excerpts  
22 from TECO Energy, Inc.'s 2009, 2010, 2011 and 2012 10-K filings as my  
23 Exhibit \_\_\_\_(LK-21).

24 In summary, there actually was a net decrease in O&M expense over the  
25 2010-2012 period compared to 2009, excluding the effects in 2009 of the  
26 restructuring charges and project development write-off costs. The Company's  
27 ability to achieve essentially flat O&M expenses since the last Order through  
28 2012 stands in stark contrast to its request for an increase of \$54.985 million, or  
29 18.4%, from 2012 to the 2014 test year.

30

31 **Q. Why is this history relevant to the Company's request in this proceeding?**

32 **A.** It is relevant because the Commission must judge whether the Company's request  
33 is just and reasonable. The starting point for that judgment is to make a "top-

1 down” assessment by comparing the total requested O&M expense in the test year  
2 to the total actual O&M expense incurred in prior years. This judgment is  
3 particularly important because the test year is projected and reflects the  
4 Company’s wish list for O&M expense for a period that is two years beyond the  
5 most recent calendar year for which actual results are available.

6 The Company claims that its request reflects the return to a “normal” level  
7 of operations after several years of reduced and deferred activities. The question  
8 the Commission must answer is whether, and, if so, to what extent, this assertion  
9 is correct given the Company’s self-interest in this proceeding to project  
10 significant increases in the test year. The best evidence in support of or against  
11 the necessity of such significant increases is the Company’s own experience and  
12 statements over the last several years in response to the minimal sales growth and  
13 the “industry changes, economic uncertainties and its commitment to maintain a  
14 lean and efficient organization” cited in its 2010 10-K.

15 The compelling actual evidence is that the Company can successfully  
16 manage and control its O&M expense if it has the real-world incentive to do so.  
17 The Commission found in the 2009 rate case that the Company’s O&M expense  
18 request was excessive and reduced it by \$23.977 million from the amount  
19 requested by the Company. Company witness Chronister states that in response  
20 to this reduction, the Company took “proactive steps to reduce O&M expense  
21 from budgeted amounts.” [Chronister Direct Testimony at 31]. I have attached a  
22 copy of the Schedule included in the Commission’s Order in the 2009 proceeding  
23 summarizing the Company’s request and the Commission’s adjustments as my  
24 Exhibit \_\_\_\_(LK-2).

1 **Q. How does the Company's request for an increase of 18.4% in jurisdictional**  
2 **O&M expense in the test year over the 2012 prior year actual compare to an**  
3 **increase that reflects only the Company's projection of inflation over the two**  
4 **year period, assuming no improvement in efficiencies and no changes in**  
5 **work-scope?**

6 **A. The increase in jurisdictional O&M expense over the two year period would be**  
7 **\$14.087 million, a mere fraction of the jurisdictional \$54.985 million increase**  
8 **proposed by the Company in this proceeding. I used the Company's projections**  
9 **of inflation to quantify this increase. The Company projects increases in inflation**  
10 **as measured by the CPI of 1.99% in 2013 and 2.66% in 2014, as shown on**  
11 **Schedule C-36 in its filing, an average of 2.3% annually, or 4.7% over the two**  
12 **year period. I computed the portion of the requested increase due to inflation**  
13 **alone by applying the Company's inflation rates as shown on Schedule C-36 to**  
14 **the \$299.546 million (jurisdictional) actually incurred in 2012 as shown on**  
15 **Document 16 attached to Mr. Chronister's Direct Testimony. The application of**  
16 **these inflation rates to the 2012 jurisdictional amounts results in an inflation**  
17 **adjusted amount of \$313.633 million (jurisdictional) for the test year.**

18

19 **Q. Is a jurisdictional O&M expense of \$313.633 million just and reasonable**  
20 **considering the effects of inflation, improvements in efficiencies, additional**  
21 **investment in systems and other plant to achieve those efficiencies, and**  
22 **limited increases in work-scope activities, assuming that the Company**  
23 **continues its three year history of cost control as a "lean and efficient**  
24 **organization" and that the additional investments in systems and other plant**



1 **to achieve those efficiencies are included in rate base?**

2 A. Yes. Consequently, I recommend a reduction in the Company's requested O&M  
3 expense of \$40.898 million to \$313.633 million on a jurisdictional basis. The  
4 Company has not justified an increase in O&M expense in the test year compared  
5 to 2012 of more than \$14.087 million. The Commission should hold the line  
6 against unbridled projected O&M expense increases. This recommendation is  
7 consistent with the Mr. Hornick's Direct Testimony wherein he states that:

8 there has been a focus on controlling O&M expenses, particularly  
9 since 2009. Expense spending budgets have been held essentially  
10 flat, which has required the company to offset increases in labor,  
11 materials and other costs with reduced spending and efficiency  
12 measures across the company.

13  
14 [Hornick Direct Testimony at 11].

15

16 Q. **Have you compared the Company's proposed 2014 O&M expenses to the**  
17 **most recent year for which actual information is available on an account**  
18 **level basis to determine where the Company proposes to increase its O&M**  
19 **expense?**

20 A. Yes. The Commission must determine the just and reasonable level of O&M  
21 expense. Although I recommend that it do so through a "top-down" approach, I  
22 also provide a supplemental "bottoms-up" analysis of specific issues in further  
23 support of my recommendation to disallow a portion of the Company's requested  
24 increase. This approach was necessary due to the lack of testimony addressing  
25 the reasonableness of the increase beyond general descriptions of a "return" to  
26 "normal" spend rates, whatever that abstract description means and however the  
27 Company may define "normal." The Company should not be allowed to define

1 "normal" as the level it spent prior to its response to the last Order in 2009. The  
2 pre-2009 levels no longer are relevant or applicable due to the systemic  
3 organizational and process changes implemented by the Company in 2009 and  
4 thereafter. A more relevant and correct definition of "normal" should be 2012  
5 because it reflects the changes implemented in 2009 and thereafter. The 2012  
6 prior historical year represents the most recent year for which actual amounts are  
7 available and the most recent year in which the Company had a direct self-interest  
8 in controlling and minimizing increases in its O&M expenses. The Company  
9 provided its actual O&M expenses and projected test year expenses by Federal  
10 Energy Regulatory Commission ("FERC") O&M expense account on Schedule  
11 C-6 in its filing.

12 HUA, the Florida Office of Public Counsel ("OPC"), and the Commission  
13 Staff ("Staff") served numerous interrogatories addressing the significant  
14 increases in many of these accounts in the test year compared to 2012. This  
15 comparison on an account by account basis was hindered in part by the fact that  
16 the Company reviewed its accounting in early 2012 in conjunction with the  
17 implementation of a new accounting system and changed the accounts it used for  
18 recording the costs of numerous activities as a result of that review. In many of  
19 the Company's responses to this discovery, this change in accounting was cited as  
20 a reason for the significant increases in certain accounts. However, there should  
21 have been a concomitant reduction in the other accounts if the changes in  
22 accounting were the sole driver; generally, there were no such reductions, with  
23 only a few exceptions.

24 The resulting difficulty in performing an account by account comparison

1 to determine the reasonableness of the Company's proposed O&M expense spend  
2 rate leads to the necessity, and reinforces the reasonableness, of the "top-down"  
3 approach that I recommend the Commission employ in this proceeding.  
4 Nevertheless, I also have reviewed specific O&M expense areas and specific  
5 O&M expense accounts to assess the reasonableness of the Company's requested  
6 increases under a "bottoms-up" analysis. I address these specific issues and set  
7 forth specific adjustments in the following sections of my testimony based upon a  
8 "bottoms-up" approach that, in the aggregate, support my recommendation to set  
9 the allowed O&M expense using a "top-down" approach.

10

11 **B. Energy Supply Maintenance Outage Expenses Should Be Normalized to**  
12 **Reflect Recent Actual Experience**

13

14 **Q. Please describe the Company's request to increase the Energy Supply O&M**  
15 **expenses in the test year compared to 2012.**

16 **A. The Company proposes to increase the Energy Supply O&M expense by \$21.566**  
17 **million (i.e., from \$117.274 million in 2012 to \$138.840 million in 2014), as**  
18 **shown on the revised version of Mr. Hornick's Exhibit No. \_\_\_ (MJH-1)**  
19 **Document 4.**

20

21 **Q. What has been the Company's recent history of Energy Supply O&M**  
22 **expense?**

23 **A. Since the restructuring in 2009, the Company reduced its Energy Supply O&M**  
24 **expense and kept it essentially flat. The Company actually incurred \$120.325**  
25 **million in 2010, \$115.366 million in 2011, and \$117.274 million in 2012,**

1 according to the revised version of Mr. Hornick's Exhibit No. \_\_\_ (MJH-1)  
2 Document 4.

3

4 **Q. How much of the proposed increase in the test year is for planned**  
5 **maintenance outage expense?**

6 A. The Company seeks an increase of \$6.830 million for planned maintenance  
7 outage expense, to \$17.585 million in 2014 from \$10.755 million in 2012, which  
8 is an increase of 64%. The Company provided the historical O&M expense by  
9 unit in response to OPC's Interrogatory No. 75 ("OPC-I-75") and the test year  
10 O&M expense by unit in response to OPC's Interrogatory No. 77 ("OPC-I-77").  
11 The increase is primarily related to planned outages for the Big Bend units that  
12 exceed the average O&M expense for these units over the most recent 10 years,  
13 according to the Company's response to OPC-I-75. I have attached a copy of the  
14 response to OPC-I-75 as my Exhibit\_\_\_(LK-3) and the response to OPC-I-77 as  
15 my Exhibit\_\_\_(LK-4).

16

17 **Q. Should the Commission normalize the planned maintenance outage expense**  
18 **so that it is consistent with historic amounts?**

19 A. Yes. The Company's proposed expense is wildly in excess of the amounts that it  
20 incurred historically. Since 2009, the Company's planned maintenance outage  
21 expense has not exceeded \$2.5 million on any one of its four Big Bend units. In  
22 stark contrast to its actual recent experience, the Company proposes planned  
23 maintenance outage expense of \$5.4 million on Big Bend 1 and \$5.7 million on  
24 Big Bend 4 in the test year. These stark differences and the magnitude of the

1 increase in spending should weigh strongly in favor of normalizing the expense  
2 based on historic spending levels instead of blindly adopting the Company's  
3 proposed increase.

4

5 **Q. What is the effect of normalizing planned maintenance outage expense?**

6 A. The effect, under a "bottoms-up" approach, would be a reduction of \$7.145  
7 million in planned outage expense based on the average of the three most recent  
8 years for which actual information is available. The average for the years 2010-  
9 2012 is \$10.440 million, based on the simple average of the actual annual expense  
10 amounts provided in the Company's response to OPC-I-75.

11

12 **C. Distribution Operation and Maintenance Expense Increase is Excessive and**  
13 **Has Not Been Justified**

14

15 **Q. Please describe the increase in projected test year O&M expense compared**  
16 **to the actual O&M expense for the distribution operation and maintenance**  
17 **expense accounts.**

18 A. The test year distribution operation expense is \$3.939 million, or 21.0%, more in  
19 the test year than the Company actually incurred in 2012, according to Schedule  
20 C-6. Schedule C-6 provides a comparison of prior year expenses compared to the  
21 Company's request in this proceeding by FERC O&M expense account. On  
22 Schedule C-6, the Company reflected \$22.715 million in the test year and \$18.776  
23 million in 2012.

24

25 The test year distribution maintenance expense is \$3.443 million, or  
13.7%, more in the test year than the Company actually incurred in 2012, also

1 according to Schedule C-6. On Schedule C-6, the Company reflected \$28.570  
2 million in the test year and \$25.127 million in 2012.

3

4 **Q. Did the Company justify these significant increases through the testimony of**  
5 **its witnesses, or more specifically, through Ms. Young's testimony?**

6 A. No. Consequently, HUA served a series of Interrogatories and Requests for  
7 Production of Documents ("PODs") addressing the specific accounts where the  
8 Company proposes significant increases. For example, the Company proposes  
9 \$0.439 million for account 581 *load dispatching distribution* in the test year  
10 compared to the actual \$0.059 incurred in 2012, an increase of 744.1%. The  
11 Company explained in response to HUA's Interrogatory No. 76 ("HUA-I-76")  
12 that \$0.439 million of this increase was due to a shift in accounting in mid-2012  
13 where expenses previously recorded in account 593 were shifted to account 581.  
14 However, when reviewing account 593, the expense in that account increased by  
15 \$1.584 million in the test year compared to 2012. Thus, this explanation does not  
16 justify the increase in account 581 that is requested. I have attached a copy of the  
17 Company's response to HUA-I-76 as my Exhibit\_\_(LK-5).

18 As another example, the Company proposes \$5.533 million for account  
19 583 *overhead line expenses distribution* in the test year compared to the actual  
20 \$0.750 incurred in 2012, an increase of 637.7%. The Company explained in  
21 response to HUA's Interrogatory No. 61 ("HUA-I-61") that \$4.579 million of this  
22 increase was due to shifts in accounting in mid-2012 where expenses previously  
23 recorded in accounts 580, 588, and 593 were shifted to account 583. However,  
24 there was no net reduction in these three accounts to offset the increase in account

1 583 due to these “accounting” changes. Instead, these three other accounts  
2 increased in the test year by a net \$2.210 million (account 580 went down by  
3 \$0.147 million; account 588 increased by \$0.773 million; and account 593  
4 increased by \$1.584 million). I have attached a copy of the Company’s response  
5 to HUA-I-61 as my Exhibit\_\_\_(LK-6).

6 In short, the Company’s explanation of “accounting” changes does not  
7 justify the increase in account 583 that was requested and does not explain the net  
8 increases in all four of the affected accounts.

9  
10 **Q. Aside from the Company’s description of accounting changes, do these**  
11 **responses otherwise justify the increases in distribution operation and**  
12 **maintenance expenses reflected in the Company’s projected test year**  
13 **revenue requirement?**

14 **A.** No. They merely provide a narrative description of the increases the Company  
15 included in the test year, but do not justify those increases. These narrative  
16 descriptions are inherently circular, *i.e.*, the amount increased because it includes  
17 additional amounts. Further, the accounting changes obscure the details of the  
18 increases on an account by account basis, but when considered together with the  
19 other distribution accounts, do not justify the overall increases on an account by  
20 account basis.

21  
22 **Q. What is the effect of your recommendation on distribution operation and**  
23 **maintenance expense under a “bottoms-up” approach based on these facts?**

24 **A.** The effect, under a “bottoms-up” approach, would be a reduction of \$5.317

1 million of the Company's request by reducing the distribution O&M expense to  
2 the average inflation growth since 2012 projected by the Company and shown on  
3 Schedule C-36. This assumes that any increases due to program or work-scope  
4 expansion are funded through efficiency improvements. This is a reasonable  
5 result given the Company's failure to provide substantive and rational  
6 justifications for the proposed huge increases in these expenses.

7  
8 **Q. One of the drivers of the distribution O&M expense increases is the addition  
9 of 40 positions. Please address the addition of these positions.**

10 A. The Company asserts that these positions are necessary based on "workload  
11 projections and apprentices required to replace future front line retirements" and  
12 to "respond to an aging infrastructure," according to its response to Staff's  
13 Interrogatory No. 48 ("Staff-I-48"). However, the Company provided no  
14 evidence that the work-scope will be any greater in the test year than it was in  
15 2012 or that the so-called "aging infrastructure" requires more operation or  
16 maintenance expense than it did in 2012 or that the replacement of retiring  
17 workers will be any greater in 2014 than it was in 2012. I have attached a copy of  
18 the Company's response to Staff-I-48 as my Exhibit \_\_\_\_(LK-7).

19  
20 **Q. Do you have any further comments on the Company proposed increase in  
21 distribution O&M expense in the test year compared 2012?**

22 A. Yes. The Company has invested heavily in new infrastructure, which is included  
23 in the test year rate base through the end of 2014. The Company has implemented  
24 an extensive storm hardening program, including maintenance programs,



1 vegetation management, distribution maintenance, pole replacements, and other  
2 initiatives and actions, according to the Storm Hardening Plan addressed by Ms.  
3 Young. [Young Direct Testimony at 26-27]. The Company provided a copy of  
4 the Storm Hardening Plan in response to OPC's POD No. 76. In addition, the  
5 Company now is on a cycle-based vegetation management program, which  
6 ostensibly is lower cost than a reliability-based program.

7 These investments and programs, which are paid for by customers, should  
8 result in continuing and growing savings through the test year. In fact, it is these  
9 very investments and programs that have enabled the Company actually to  
10 achieve savings in O&M expense in recent years. These investments and  
11 programs should operate to continue to restrain growth in the distribution O&M  
12 expenses in future years. Thus, the Commission should view the Company's  
13 request for significant increases in these expenses with extreme skepticism and  
14 instead allow only a reasonable increase consistent with my analysis. The  
15 Commission, and more importantly, the Company's customers, who have paid  
16 and continue to pay the costs of these investments and initiatives, should see the  
17 benefits of these investments and programs in the form of savings. The test year  
18 expense should reflect the savings in lower O&M expense from reduced work-  
19 scope, not increased O&M expense.

20  
21 **D. Incentive Compensation Expense Increase is Excessive and Has Not Been**  
22 **Justified**  
23

24 **Q. Please describe the Company's requested increase in Performance Sharing**  
25 **Plan ("PSP") incentive compensation expense.**

1 A. The Company proposes to increase the PSP incentive compensation expense by  
2 \$5.956 million, from \$6.427 million in 2012 to \$12.383 million in 2014,  
3 according to the Company's response to OPC's Interrogatory No. 8 ("OPC-I-8").  
4 The expense in 2012 was based on 2.0% of payroll, according to the Company's  
5 response to OPC's Interrogatory No. 60 ("OPC-I-60"), and the proposed expense  
6 in 2014 is based on 5.0% of payroll, according to Company witness Mr. Brad  
7 Register. [Register Direct Testimony at 18]. The Company has not yet  
8 determined the PSP goals for 2014, but they are expected to be "consistent" with  
9 the goals for 2013, according to Mr. Register. [*Id.* at 17]. The Company claims  
10 that there is another 7.0% available based on financial performance, but that it did  
11 not include this amount in its revenue requirement, also according to Mr.  
12 Register. [*Id.* at 18]. I have attached a copy of the Company's responses to OPC-  
13 I-8 and OPC-I-60 as my Exhibit\_\_(LK-8) and Exhibit\_\_(LK-9), respectively.

14  
15 **Q. Is the PSP incentive compensation expense discretionary and does the**  
16 **Company change the goals and percentages from year to year?**

17 A. Yes. The Company reassesses the PSP incentive compensation expense goals and  
18 percentages each year. For example, in 2008, the potential payout was 4.0%,  
19 consisting of 2.25% for various safety and operational goals and 1.75% for  
20 financial goals. However, in 2012, the potential payout was only 2.0%, consisting  
21 only of safety goals due to the failure to achieve the Company's financial goals.

22  
23 **Q. Why is it relevant whether the PSP incentive compensation expense is**  
24 **discretionary?**

1 A. It is relevant because the Company is under no obligation to continue the PSP or  
2 to set goals that benefit customers or challenge the organization to achieve metrics  
3 that directly benefit customers. In other words, even if the expense is allowed, the  
4 Company is under no obligation to pay these amounts. It may pay less or it may  
5 pay more, depending on the annual targets that it sets and its financial  
6 performance.

7  
8 **Q. What is the effect of your recommendation to reject the proposed increase in  
9 PSP incentive compensation expense under a “bottoms-up” approach?**

10 A. The effect, under a “bottoms-up” approach, would be a reduction of \$5.304  
11 million to eliminate the Company’s proposed increase. This reduction would  
12 allow recovery of no more than \$7.079 million, using the 2.0% payout rate from  
13 2012. This amount reflects the increase in payroll in the test year compared to  
14 2012. To quantify the amount that should be allowed, I used the ratio of the  
15 \$6.427 million in PSP incentive expense to the \$194.408 million in payroll dollars  
16 in 2012 from the Company’s response to OPC’s Interrogatory No. 57 (“OPC-I-  
17 57”) and applied this ratio to the \$214.139 million in proposed payroll dollars in  
18 2014, also from the Company’s response to OPC-I-57. I have attached a copy of  
19 the Company’s response to OPC-I-57 as my Exhibit\_\_\_(LK-10).

20  
21 **Q. HUA witness Mr. Baudino notes in his testimony that the Company’s  
22 common equity ratio is greater than the comparative group’s. What is the  
23 significance of the common equity ratio on the revenue requirement?**

24 A. Common equity is the most expensive source of financing for two reasons. First,

1 the return on equity generally is much greater than the cost of debt. In this case,  
2 the Company seeks an 11.25% return on equity, a 5.40% cost of long-term debt,  
3 and a 1.47% cost of short-term debt. The weighted average cost of the long-term  
4 debt and short-term debt is 5.34%.

5 Second, the return on equity must be grossed-up for income taxes. The  
6 cost of debt is not grossed-up for income taxes. The gross-up factor for the return  
7 on equity is 1.6322. Thus, the return on equity sought by the Company is  
8 equivalent to a before tax cost of 18.36%.

9  
10 **Q. What is the effect of reducing the common equity ratio by 1.0% and**  
11 **increasing the long-term debt ratio by 1.0%?**

12 **A. The effect is a reduction in the revenue requirement of \$5.6 million.**  
13

14 **Q. Regardless of whether the Commission employs a “top-down” approach or a**  
15 **“bottoms-up” approach to the Company’s requested O&M expense, should**  
16 **the Commission consider options to incentivize the Company to maximize**  
17 **actual PSP incentive compensation tied to a reduction in its common equity**  
18 **ratio and an increase in its long-term debt ratio?**

19 **A. Yes. I recommend that the Commission consider two options to incentivize the**  
20 **Company to reduce its common equity ratio. The first option would be to reduce**  
21 **the common equity ratio in the rate of return in this case and then allow the**  
22 **Company to retain 25% of the revenue requirement reduction as an increase to the**  
23 **PSP incentive compensation expense. In that manner, for each reduction of 1% in**  
24 **the common equity ratio, the Commission would reduce the revenue requirement**

1 by \$5.6 million through a lower rate of return, but then increase it by \$1.4 million  
2 through an increase to the PSP incentive compensation expense.

3 The second option would be for the Commission to establish an incentive  
4 for the Company to reduce its common equity ratio in the next rate case compared  
5 to the common equity ratio allowed in this case. The Commission could state its  
6 intent to allow a proforma adjustment to increase the PSP incentive compensation  
7 expense in the next rate case for 25% of the savings in the revenue requirement  
8 due to the lower return in the next case.

9

10 **E. Stock Compensation Expense**

11

12 **Q. Please describe the Company's request for stock compensation expense.**

13 **A.** The Company included stock compensation expense of \$5.084 million in the  
14 revenue requirement for the test year, according to the Company's response to  
15 OPC-I-57. The Company incurred \$2.703 million for this expense in 2010,  
16 \$3.006 million in 2011, and \$3.679 million in 2012, according to the response to  
17 OPC-I-57. Unlike its other benefit costs, the Company expensed the entire cost  
18 each year and did not capitalize any amount.

19 The Company's stock compensation expense is based on the grant and  
20 payout of performance shares and time-vested restricted stock pursuant to the  
21 Company's long-term incentive awards, according to TECO Energy, Inc.'s 2013  
22 Proxy Statement. The payout of these awards is based on the Company's total  
23 shareholder return compared to the companies in the Dow Jones Conventional  
24 Electricity and Multiutility subsectors of its utility index, also according to the  
25 2013 Proxy Statement. I have attached excerpts of the TECO Energy, Inc. 2013

1 Proxy Statement as my Exhibit\_\_(LK-22).

2

3 **Q. Should the Commission include stock compensation expense in the revenue**  
4 **requirement?**

5 A. No. This expense is incurred to incentivize the financial performance of the  
6 Company, not to achieve operational or customer service goals that may directly  
7 benefit the customers. As such, the expense should be borne by the Company's  
8 shareholder, TECO Energy, Inc. In addition, the Commission should not provide  
9 financial incentives to seek and obtain rate increases and higher authorized returns  
10 on equity, particularly when such increases are paid by the same customers who  
11 are asked to pay for this incentive against their interests. Again, the expense  
12 should be borne by the Company's shareholder, TECO Energy, Inc.

13

14 **F. Injuries and Damages Expense Should Be Normalized to Reflect Recent**  
15 **Actual Experience**

16

17 **Q. Please describe the Company's requested injuries and damages expense.**

18 A. The Company proposes injuries and damages expense of \$6.806 million  
19 according to its response to OPC's Interrogatory No. 12 ("OPC-I-12"). I have  
20 attached a copy of this response as my Exhibit\_\_(LK-11). No witness explicitly  
21 addresses this expense in his or her Direct Testimony.

22

23 **Q. How does the Company's request compare to its actual expense in prior**  
24 **years?**

25 A. The Company's request is \$1.728 million greater than the \$5.078 million average  
26 of the injuries and damages expense actually incurred in the years 2010 through

1 2012. The Company incurred \$3.663 million in 2010, \$5.018 million in 2011,  
2 and \$6.552 million in 2012, according to its response to OPC-I-12.

3

4 **Q. Under a “bottoms-up” approach, should the Commission consider the**  
5 **Company’s historical experience and normalize this expense for the test year**  
6 **based on that experience?**

7 A. Yes. Under the “bottoms-up” approach, the Commission should normalize this  
8 expense based on the Company’s actual experience and reduce the amount  
9 included in the revenue requirement by \$1.728 million to reflect its most recent  
10 three years of experience. The Company uses reserve accounting and presently  
11 has a liability reserve balance, meaning that the Company has accrued and  
12 customers have contributed more to the reserve than the Company has paid out  
13 for such damages. Unlike the storm damage expense accrual, the Company does  
14 not accrue the same amount authorized by the Commission each year and retains  
15 discretion to accrue an amount each year based on experience and its  
16 determination of an appropriate reserve.

17

18 **G. Miscellaneous General Expense Is Excessive because It Does Not Reflect**  
19 **TECO Energy, Inc.’s Acquisition of New Mexico Gas Company and the**  
20 **Lower Allocation of Affiliate Costs to the Company**  
21

22 **Q. How does the Company account for affiliate charges from TECO Energy,**  
23 **Inc. in the test year?**

24 A. The Company includes these amounts in account 930, Miscellaneous General  
25 Expense, although it recorded such charges in a variety of accounts in prior years.

26

1    **Q.    Did the Company reflect the lower affiliate charges from TECO Energy, Inc.**  
2           **that will result from TECO Energy, Inc.'s acquisition of New Mexico Gas**  
3           **Company?**

4    A.    No, according to the Company's response to OPC's Interrogatory No. 131  
5           ("OPC-I-131"). The Company claims that it presently does not know whether  
6           TECO Energy, Inc. will direct charge any of its expenses to New Mexico Gas  
7           Company, according to its response to OPC's Interrogatory No. 133 ("OPC-I-  
8           133"), but it does agree that it will allocate a portion of the expenses that are not  
9           direct charged to the Company or other affiliates to New Mexico Gas Company  
10          starting in March 2014 when it closes on the acquisition, according to its  
11          responses to OPC-I-131 and OPC's Interrogatory No. 138 ("OPC-I-138"). I have  
12          attached a copy of the response to OPC-I-131 as my Exhibit\_\_(LK-12), a copy  
13          of the response to OPC-I-133 as my Exhibit\_\_(LK-13) and a copy of the  
14          response to OPC-I-138 as my Exhibit\_\_(LK-14).

15  
16   **Q.    Has the Company estimated what the reduction in allocated expenses will**  
17           **be?**

18   A.    Yes. The Company estimates that the reduction in allocated expenses will be \$2.1  
19          million in 2014, according to the Company's response to OPC-I-131, and \$2.9  
20          million in 2015 and 2016, according to its response to OPC-I-138. If some of the  
21          allocated expenses instead are direct charged to New Mexico Gas Company, then  
22          the reduction in the allocated charges to the Company will be greater than the  
23          Company quantified.

24



1 **Q. Do you recommend that this reduction in affiliate expense be reflected in the**  
2 **revenue requirement under a “bottoms-up” approach?**

3 A. Yes. The effect, under a “bottoms-up” approach, would be a reduction in the  
4 Company’s O&M expense of \$2.9 million. The Commission should use the  
5 larger amount, rather than the \$2.1 million amount estimated by the Company  
6 specifically for the test year. This is appropriate in order to reflect the annualized  
7 amount, rather than the savings for a portion of the year, and also to reflect the  
8 full impact of the acquisition on the Company, including the effect of a reduction  
9 in the allocated charges due to the fact that TECO Energy, Inc. likely will direct  
10 charge certain of its costs to New Mexico Gas Company, which should result in a  
11 reduction in the residual amounts that are allocated to the various affiliates using  
12 the modified Massachusetts methodology cited in the response to OPC-I-131.

13

14 **H. Call Center Expense Increase Is Excessive and Has Not Been Justified**

15

16 **Q. Please describe the Company’s requested increase in Call Center expenses.**

17 A. The Company proposes to increase Call Center expense by \$1.967 million in the  
18 test year compared to 2012, from \$8.566 million to \$10.533 million, according to  
19 its response to OPC’s Interrogatory No. 49 (“OPC-I-49”). This is an increase of  
20 23.0% over two years. The Company attributes part of this increase to additional  
21 staffing in order to improve Call Center metrics, according to its response to  
22 OPC-I-49. I have attached a copy of the response to OPC-I-49 as my  
23 Exhibit\_\_(LK-15).

24

1 Q. Should the Commission authorize an increase of this magnitude in Call  
2 Center expenses?

3 A. No. First, the Company has provided no evidence that the 2012 performance was  
4 not acceptable. Second, the Company has provided no evidence that the 2012  
5 performance was worse than its historical average. Third, the Company has  
6 provided no evidence that the 2012 performance was due to a lack of staffing.  
7 Fourth, the Company has provided no evidence why its other communication  
8 tools, including customer service interaction through its internet portal, either has  
9 been insufficient or cannot be improved in order to relieve any pressure on the  
10 Call Center.

11

12 Q. What is your recommendation with respect to the Call Center expenses  
13 under a "bottoms-up" approach?

14 A. I would recommend that the Commission reject an increase of this magnitude and  
15 instead increase the 2012 actual expense by the average inflation growth since  
16 2012 projected by the Company and shown on Schedule C-36 to reflect inflation  
17 net of efficiency improvements and incremental expenses. This would result in  
18 an increase of \$0.402 million, from \$8.556 million to \$8.958 million. I would  
19 recommend that the Commission reduce the Company's requested O&M expense  
20 by \$1.575 million.

21

22 **I. Uncollectible Accounts Expense Increase Is Excessive and Has Not Been**  
23 **Justified**

24

25 Q. Please describe the Company's request for uncollectible accounts expense.

1 A. The Company proposes to increase the uncollectible accounts expense by \$1.302  
2 million in the test year compared to 2012. The Company implemented a new  
3 credit and collections system in 2011 along with other initiatives that reduced this  
4 expense compared to prior years, according to its response to HUA's  
5 Interrogatory No. 81 ("HUA-I-81"). However, the Company now believes that  
6 the uncollectible accounts expense "will trend toward the higher historical levels  
7 through 2014," according to its response to HUA-I-81. I have attached a copy of  
8 the response to HUA-I-81 as my Exhibit\_\_\_(LK-16).

9  
10 **Q. Should the Commission approve this increase for recovery in the revenue**  
11 **requirement?**

12 A. No. The Company has offered no empirical evidence that this expense will revert  
13 to historical levels. The Company's claim is particularly disturbing because of  
14 the investment in and implementation of technology in the form of the new credit  
15 and collections system along with the other "successful initiatives," such as the  
16 outbound dialer and better targeted and more aggressive collection policies, cited  
17 in the response to OPC-I-81. These costs also are included in the Company's  
18 revenue requirement. The savings from these initiatives also should be reflected.

19

20 **J. Legal Expense Increase Is Excessive and Has Not Been Justified**

21

22 **Q. Please describe the Company's request for legal expense included in outside**  
23 **professional services in account 923.**

24 A. The Company proposes to increase the legal expense by \$2.254 million to \$4.115

1 million in the test year, compared to \$1.861 million 2012, as shown on the  
2 Company's corrected Schedule C-16 in its filing. The Company claims that the  
3 increase consists of \$0.733 million for the amortization of rate case expenses,  
4 \$0.520 million for pending litigation with Verizon, and \$0.560 million associated  
5 with fuel contracts that are expiring, and other miscellaneous legal expenses,  
6 according to its response to OPC's Interrogatory No. 119 ("OPC-I-119"). I have  
7 attached a copy of the response to OPC-I-119 as my Exhibit\_\_(LK-17).

8

9 **Q. Should the Commission approve this increase for recovery in the revenue**  
10 **requirement?**

11 **A.** No, except for the rate case amortization expense. The Commission should  
12 disallow the remaining \$1.521 million. The Company has offered no evidence  
13 that it did not incur similar expenses in 2012, albeit for different contracts and  
14 other litigation. The Company does not propose a reduction in legal expenses for  
15 those similar expenses incurred in 2012 that will not recur in 2014. However, if,  
16 in fact, similar expenses were not incurred in 2012 and these expenses in the test  
17 year are nonrecurring, then the expenses should be deferred and recovery sought  
18 in the Company's next base rate case when they are known and measurable.

19

20 **III. OTHER REVENUES SHOULD BE INCREASED TO REFLECT ONGOING**  
21 **OATT REVENUES FROM CALPINE**  
22

23 **Q. In its filing, the Company assumed that it no longer would receive revenues**  
24 **or provide transmission service to Auburndale Power Partners ("APP") or**  
25 **Calpine under its OATT in the test year even though it had not received**

1           **official notice of termination from either of these entities. Has there been an**  
2           **update since the Company made its filing?**

3    A.    Yes. The Company recently received a notification from Calpine that it will roll-  
4           over 249 MW effective June 1, 2014 and ending May 31, 2019, according to its  
5           responses to HUA's Interrogatory No. 125 ("HUA-I-125") and Interrogatory No.  
6           131 ("HUA-I-131"). This will result in an additional \$4.92 million in revenues in  
7           the test year that were not reflected in the Company's revenue requirement,  
8           according to its response to HUA-I-131. I have attached a copy of the responses  
9           to HUA-I-125 and HUA-I-131 as my Exhibit \_\_ (LK-18) and Exhibit \_\_ (LK-19),  
10          respectively.

11

12   **Q.    Should these additional revenues be reflected in the Company's revenue**  
13           **requirement?**

14    A.    Yes. Consequently, the Company's revenue deficiency should be reduced by  
15           \$4.92 million.

16

17                                   **IV. RETURN ON EQUITY IS EXCESSIVE**

18   **Q.    If the Commission approves a reduction in the return on equity, as proposed**  
19           **by HUA witness Mr. Baudino, what effects will that have on the revenue**  
20           **requirement in this proceeding and in the various clause recoveries?**

21    A.    In this proceeding, it will result in a reduction to the Company's claimed revenue  
22           deficiency and a reduction in the base revenue increase. It also will result in a  
23           reduction to the Company's clause revenue recoveries that include a return on rate  
24           base, such as the Environmental Cost Recovery Clause. The reductions in the

1 clause revenue recoveries will partially offset any base revenue increase in this  
2 proceeding.

3

4 **Q. Are there other effects resulting from a reduction in the return on equity?**

5 A. Yes. A reduction in the return on equity also will reduce the rate of return used to  
6 capitalize financing costs during construction in the form of Allowance for Funds  
7 Used During Construction ("AFUDC"). The AFUDC is added to Construction  
8 Work in Progress ("CWIP") during construction and is included along with the  
9 direct costs of construction in Plant in Service when the CWIP is completed and  
10 placed in service. Due to the lower rate of return for AFUDC, the Company's  
11 rate base and depreciation expense will be less than if there had been an excessive  
12 return on equity during the construction period. Thus, a reduction in the AFUDC  
13 rate from the effective date of the Order in this proceeding until the next order in a  
14 subsequent proceeding resetting the return on equity will result in ongoing lower  
15 revenue requirements for decades over the service lives of the assets constructed  
16 during the period in which the lower AFUDC rate was in effect.

17

18 **Q. Have you quantified the effect of the HUA return on equity recommendation**  
19 **in this proceeding?**

20 A. Yes. The effect is to reduce the Company's revenue requirement by \$58.375  
21 million on a jurisdictional basis to reflect the reduction to the 9.3% return  
22 recommended by Mr. Baudino from the 11.25% return sought by the Company.  
23 The effect is to reduce the Company's revenue requirement by \$29.936 million  
24 for each 1.0% change in the return on equity. I relied on the Company's rate

1 base, capital structure, and cost of all capital components, except for the return on  
2 equity, to quantify the effects of modifying the return on equity; however, the  
3 effects will vary depending on the adjustments to rate base and capital structure  
4 that are adopted by the Commission in its Order. I provide my computations,  
5 including the reduction in the grossed-up rate of return, in my Exhibit \_\_\_\_(LK-20).

6

7 **Q. Does this complete your testimony?**

8 **A. Yes.**

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**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**COMMISSION STAFF**

**DIRECT TESTIMONY OF WILLIAM B. McNULTY**

**DOCKET NO. 130040-EI**

**JULY 25, 2013**

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

A. My name is William B. McNulty, and my business address is 2540 Shumard Oak Blvd., Tallahassee, Florida, 32399.

**Q. By whom are you employed and in what capacity?**

A. I am employed by the Florida Public Service Commission as an Economic Analyst in the Division of Economics.

**Q. How long have you been employed by the Commission?**

A. I have been employed by the Florida Public Service Commission since July 1989.

**Q. Briefly review your educational and professional background.**

A. I graduated from the University of Florida in 1981 with a Bachelor of Science degree in Psychology. I graduated from the University of Central Florida in 1989 with a Master of Business Administration degree. In that same year, I began employment with the Florida Public Service Commission as a Regulatory Analyst in the Division of Communications. Currently, I am employed as an Economic Analyst in the Division of Economics. During my tenure at the Commission, I have worked on a variety of issues involving all of the industries under the Commission's jurisdiction. In particular, I recently served as lead analyst in two rate cases, Docket No. 110138-EI (Gulf Power Company) and Docket No. 120015-EI (Florida Power and Light Company), on issues involving distribution cost classification proposals.

**Q. Have you presented testimony before this Commission or any other regulatory agency?**



1 A. Yes. I have testified before this Commission In re: Fuel and Purchased Power Cost  
2 Recovery Clause with Generating Performance Incentive Factor, Docket No. 030001-EI.

3 **Q. What is the purpose of your testimony today?**

4 A. The purpose of my testimony is to provide an overview and analysis of the Demand  
5 Only Cost Classification (DOCC) distribution cost classification method that has been  
6 historically approved by the Commission and the Minimum Distribution System (MDS)  
7 distribution cost classification method proposed by Witness William R. Ashburn in this  
8 proceeding.

10 **Q. Have you prepared exhibits to support your direct testimony?**

11 A. Yes, I am sponsoring the following exhibits.

12 1. Exhibit No. \_\_\_\_ (WBM-1) Chapter 6 of the NARUC Electric Cost Allocation  
13 Manual – January 1992.

14 2. Exhibit No. \_\_\_\_ (WBM-2) Past Commission Orders Addressing the Minimum  
15 Distribution System (MDS).

16 3. Exhibit No. \_\_\_\_ (WBM-3) Higher Minimum Cost Using Minimum Size  
17 Methodology.

18 4 Exhibit No. \_\_\_\_ (WBM-4) Zero Intercept Regression Statistics and Summary  
19 Output.

20 5. Exhibit No. \_\_\_\_ (WBM-5) TECO Test Year Revenue Requirement and Bill  
21 Impacts: MDS Compared to DOCC.

22 **Q. What is Demand Only Cost Classification (DOCC)?**

23 A. DOCC is the typical method that has been approved by this Commission to classify the  
24 distribution plant and related costs included in FERC Accounts 364 (poles, towers, and  
25 fixtures), 365 (overhead conductors and devices), 366 (underground conduit), 367

1 (underground conductors and devices), and 368 (line transformers) for purposes of cost  
2 allocation to the various customer classes. The standard classifications of electric utility costs  
3 are demand-related, customer-related, and energy-related. The purpose of any classification  
4 methodology is to reflect cost causation. If the cost to build and maintain certain plant is  
5 incurred to serve peak load, the cost is said to be demand-related. Peak load is metered  
6 voltage levels measured by utilities through load research studies. Historically, the utilities  
7 have classified all distribution costs associated with poles, conductors, line transformers and  
8 related equipment (Accounts 364 through 368) as demand-related, or DOCC.

10 If the cost of building and maintaining certain plant is incurred to serve a specific  
11 number of customers rather than to serve peak load, the cost is said to be customer-related.  
12 Historically, the Commission has classified all of the distribution plant and associated costs in  
13 Accounts 369 (service drops) and 370 (meters) as customer-related.

14 The method used to determine the classification of costs as demand-related or  
15 customer-related is important because it determines how costs are allocated to the various  
16 customer classes, which has a direct impact on the rates different customers pay for electric  
17 service.

18 **Q. What is the Minimum Distribution System (MDS)?**

19 A. The MDS is an alternative method for classifying distribution plant and related costs  
20 included in Accounts 364 through 368 (poles, conductors, line transformers, and related  
21 equipment). The MDS is based on the recognition that the number of distribution poles,  
22 conductors, and transformers varies with the number of customers on the system. The MDS  
23 classifies a portion of the costs for poles, conductors, and transformers as customer-related on  
24 that basis. It does so by defining the costs of a minimum sized system needed to serve a  
25 customer or a minimum “voltage pathway,” a system which is sized so small that it is capable

1 of serving only minimal or zero demand levels. Therefore, the portion of the costs that make  
2 up the “voltage pathway” are allocated to customer classes using the customer allocator (i.e.  
3 the number of customers in each rate class divided by total customers). The customer  
4 allocator typically results in a higher allocation of costs for the residential and small  
5 commercial classes than does the DOCC allocator. Thus, the use of MDS to classify some of  
6 the costs as customer related results in assigning more costs to the residential and small  
7 commercial classes and less costs to the large commercial and industrial classes.

8 **Q. Is there a standard reference to develop the MDS cost classifications?**

10 A. Yes. The primary reference literature for the MDS is the 1992 NARUC Electric  
11 Utility Cost Allocation Manual (the Manual). Chapter 6 of the NARUC Manual appearing in  
12 Exhibit No. \_\_\_ (WBM-1) addresses the classification and allocation of distribution plant.  
13 Chapter 6 explains how the MDS can be used to classify Accounts 364 through 368 plant  
14 using both demand and customer classifications. It describes the two methodologies for  
15 implementing MDS (the “minimum size” method and the “zero-intercept” method). The  
16 NARUC Manual also addresses the issues that may arise under each method, and in some  
17 instances it explains how the issues may be resolved.

18 **Q. What is the “minimum size” methodology?**

19 A. The minimum size methodology for classifying distribution plant is based on a  
20 theoretical minimum size system that could be built to serve the minimum load of the  
21 customer. As an example, according to the NARUC Manual, the customer component for  
22 poles (Account 364) is found by multiplying the minimum size pole’s average book cost by  
23 the number of poles. The balance of the account is said to be the demand component.

24 **Q. What is the “zero intercept” methodology?**

25 A. The zero intercept methodology for classifying distribution plant is based on a

1 theoretical no-load electric service to the customer. This method involves creating a graph or  
2 plot of the unit costs of distribution equipment of varying capacity sizes and estimating an  
3 upward sloping regression line which passes through the zero intercept, or vertical axis,  
4 normally at some positive value. The value at the zero intercept is supposed to be a statistical  
5 estimate of the customer component of the cost for a single unit of the equipment that has,  
6 theoretically, zero capacity. This unit cost is used to determine the customer component in the  
7 aggregate for the account or the voltage level. According to the NARUC Manual, separate  
8 customer components are established for primary and secondary voltages for Accounts 365,  
10 366, and 367, depending upon the availability of subaccount cost data. For Accounts 364 and  
11 368, a customer component is established for both voltage levels combined.

12 **Q. Has this Commission required utilities to use the cost classification methods**  
13 **identified in the NARUC manual?**

14 A. No. The NARUC manual is not mandated, but it is widely accepted as a primary  
15 reference for the assignment of costs.

16 **Q. How has the Commission classified distribution costs since 1980, and what were**  
17 **its reasons for either approving or disapproving MDS?**

18 A. The Commission has considered the MDS on 15 occasions since 1980 in the context of  
19 rate proceedings. The Commission has specifically rejected the MDS 12 times for investor-  
20 owned electric utilities (electric IOUs), approved the MDS under a settlement agreement for  
21 Gulf Power Company (Docket No. 110138-EI), and approved the MDS for Choctawhatchee  
22 Electric Cooperative (Docket No. 020537-EC). Most recently, the Commission approved the  
23 Florida Power and Light Company revised settlement based on DOCC. In each case wherein  
24 the Commission denied requests for the MDS cost classification, DOCC was the accepted  
25 method by which distribution costs were classified. A list of the Commission's past orders

1 addressing the MDS appears in Exhibit No. \_\_ (WBM-2).

2 **Q. Has evidence been presented, either in this case or in recent dockets, which shows**  
3 **that the number of customers served is a causative factor for the installation of**  
4 **distribution poles, conductors, and transformers?**

5 A: Yes. Utility distribution system planning documents have been presented in both the  
6 current proceeding and in the most recent FPL rate case (Docket No. 120015-EI) which  
7 clearly indicate that the number of customers to be served is a factor in the planning and  
8 construction of distribution assets, at least at the distribution secondary voltage level.<sup>1</sup>

10 **Q. Is it possible to know precisely the proportion of distribution pole, transformer,**  
11 **and conductor costs that are customer related and demand related?**

12 A. No. While the MDS attempts to quantify the costs of poles, conductors, and  
13 transformers which are caused by the number of customers served, the decisions made by  
14 utility distribution planners of how to build the system is best revealed by system planning  
15 documents. These documents typically are more general, perhaps containing a list of the  
16 factors to be considered when locating and sizing facilities, a chart showing the sizing of  
17 transformers according to the number of customers, or a discussion of the importance of  
18 taking into account the number of customers to be served by the asset or assets. These  
19 documents provide the best evidence that the number of customers are a partial cause of the  
20 costs, but they do not include a quantification or weighting of the reasons for installations or  
21 expansions between peak demand requirements and the number of customers served. On the  
22 other hand, post-hoc MDS calculations are designed to reveal the precise portion of the costs  
23 which are customer related. The task at hand requires distribution costs to be classified, a task  
24 which implies precision. The industry has responded with the MDS, but I believe it is

25 \_\_\_\_\_

<sup>1</sup> Transcript Volume No. 33, Page 4961, Docket No. 120015-EI.

1 important not to lose sight of the fact that, while MDS purports to be a precise methodology, it  
2 requires a knowledge as to the exact proportion of costs which are customer related and  
3 demand related which is simply not available.

4 **Q. Does the NARUC manual identify any problems associated with the MDS the**  
5 **zero intercept methodology?**

6 A. The NARUC manual identifies a problem of the zero intercept method wherein  
7 sometimes “abnormalities in the data” or “incorrect accounting data” can generate a negative  
8 value of the cost amount at the zero intercept (vertical axis). A negative value can not be  
10 interpreted and it is counter to common sense.

11 **Q. Has TECO responded to the zero intercept methodology “data abnormalities”**  
12 **problem?**

13 A. Yes. TECO has responded to the problem by relying upon replacement cost data  
14 rather than embedded cost data to conduct its zero intercept analysis of conductors and  
15 transformers. This is counter to the NARUC manual, which states that the appropriate data to  
16 use to determine the zero intercept cost is embedded cost data obtained directly from  
17 accounting records. TECO cites the analysis of Lawrence J. Vogt, P.E., in his book,  
18 Electricity Pricing - Engineering Principles and Methodologies, published in 2009. Mr. Vogt  
19 states that embedded cost data is often based on widely varying vintages of assets, which is the  
20 cause of the distorted zero intercept regression results and negative values of the zero intercept  
21 unit cost. To correct this problem, the author explains that the current replacement costs of all  
22 assets should be used in the regression model rather than embedded cost data in order to  
23 identify the zero intercept unit cost of the rebuilt system. A ratio of the zero intercept unit cost  
24 to total cost on a rebuilt basis is applied to total book costs to identify the customer related  
25 component of the assets in service.

1 **Q. Does the NARUC manual identify any flaws or weaknesses in the minimum size**  
2 **methodology?**

3 A. Yes. The minimum size methodology is relatively simple but is subject to the criticism  
4 that the use of the methodology may overstate the customer component of distribution costs  
5 because even the smallest conductor or transformer has some level of demand capability.  
6 Thus, demand costs at some level are still included in the customer component, meaning some  
7 level of demand costs are double-counted. The NARUC manual indicates that the zero  
8 intercept methodology may be a more accurate methodology than the minimum size  
10 methodology from a theoretical perspective because it reduces the demand capability of the  
11 asset to zero.

12 An illustration of this is contained in Exhibit No. \_\_\_\_ (WBM-3), "Higher Minimum  
13 Cost Using Minimum Size Methodology." Illustration A (Conductors) shows how TECO's  
14 zero intercept method applied to conductors generates a unit cost (\$0.42/foot) which is lower  
15 than the cost of the smallest size conductor (\$0.69/foot). TECO uses the zero intercept cost to  
16 develop their customer cost-related component.

17 Now consider Illustration B - "Poles," a hypothetical example showing how the zero  
18 intercept method applied to poles generates a zero intercept unit cost amount (\$210/pole)  
19 which is lower than the cost of the smallest size pole (\$300/pole), just as with the conductor  
20 example. However, in this instance the utility has chosen not to use the zero intercept method,  
21 instead choosing to simply use the cost of the minimum size pole as its unit cost for  
22 developing its customer component. The difference between the zero intercept cost and the  
23 smallest pole cost (\$90) is counted as customer related cost, but it is actually demand related  
24 cost.

25 **Q. Has TECO responded to the flaw with the minimum size methodology discussed**

1 **in the NARUC manual regarding the double counting of some level of demand costs?**

2 A. No. TECO's costs associated with load carrying capability of the smallest pole is  
3 identified as customer related costs. TECO has not attempted any adjustments to extract the  
4 demand-related cost from the minimum size unit costs it has proposed. Allowing demand  
5 related costs of the minimum size unit to be counted as customer related costs is problematic  
6 in the same way as allowing all distribution costs of poles, transformers, and conductor to be  
7 counted as demand related costs (i.e. DOCC) when it is evident some costs are customer  
8 related.

10 **Q. Is the zero intercept methodology a more accurate method for determining the**  
11 **customer component than the minimum size methodology?**

12 A. It is likely, but not certain, because the zero intercept methodology as implemented has  
13 an additional problem beyond that identified in the NARUC manual. Utilities sometimes  
14 develop customer components with the zero intercept method using only a few observations in  
15 their regression models. This means the results of their model may have a very low level of  
16 statistical reliability.

17 For example, TECO performed its zero intercept analysis of primary conductors based  
18 on only three different size conductors, and the result of the regression is a positive zero  
19 intercept unit cost (\$0.42), but the accuracy of that unit cost estimate is very low. This is  
20 evidenced by the 90 percent confidence interval for the zero intercept unit cost, which ranges  
21 from -\$0.01 up to \$0.86, as shown in Exhibit No. \_\_\_\_ (WBM-4), "Zero Intercept Regression  
22 Statistics and Summary Output." This means that there is a 90 percent chance that the true  
23 value of the zero intercept unit cost is contained within this range, but the range is very large,  
24  
25



1 due to the fact that it is based on so few observations.<sup>2</sup> Zero intercept models with too few  
2 observations such as this are not very precise.

3 **Q. What are TECO's proposed customer related components of its distribution costs**  
4 **in this proceeding using the MDS?**

5 A. Using the MDS analysis, TECO proposes in this proceeding to classify 64 percent of  
6 its Account 364 costs (poles, towers, and fixtures), 24 percent of Account 368 costs (line  
7 transformers), and 9 percent of Accounts 365-367 costs (overhead and underground  
8 conductors and conduit) as customer-related. TECO proposes to classify the remaining costs  
10 in each of these accounts as demand-related.

11 **Q. What are the revenue requirement impacts and expected bill impacts of the**  
12 **TECO's proposed implementation of the MDS on TECO's customers?**

13 A. As shown in Exhibit No. \_\_\_\_ (WBM-5), the MDS as applied by TECO shifts revenue  
14 requirements of approximately \$12.4 M to the residential (RS) class and \$1.7 M to the small  
15 commercial (GS) class from primarily the general service demand (GSD) class and the  
16 lighting service (LS Energy and LS Facilities) classes. The total revenue requirement under  
17 the MDS is the same as the total revenue requirement under DOCC.

18 If TECO's rates were based solely on revenue requirements, the revenue requirement  
19 shift under the MDS as proposed by TECO would require TECO's RS customers to pay on  
20 average \$1.67 per month more than they would under DOCC. The GS class customer would  
21 pay, on average, \$2.14 per month more. The GSD class customer would pay, on average,  
22 \$80.20 per month less under the MDS than under DOCC. The LS Energy class customer  
23 would pay, on average, \$125.19 per month less under MDS than under DOCC, and the LS  
24 Facilities customer would pay, on average \$115.98 per month less under the MDS than under

25

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<sup>2</sup> The confidence interval is based on the assumption that the population of conductor sizes is normally distributed, wherein the population distribution forms a bell-shaped curve.

1 DOCC. See Exhibit No. \_\_\_\_ (WBM-5).

2 **Q. What information should the Commission consider if it determines that an MDS**  
3 **methodology should be implemented in this case?**

4 A. Primarily, I would recommend the Commission identify and evaluate each instance  
5 where TECO's implementation of the MDS differs from the methodologies recommended in  
6 the NARUC manual and whether such differences can be supported as reasonable and  
7 equitable. Implementing the MDS requires judgment in the development of the input cost data  
8 and this must be carefully reviewed in order to produce reliable results. Another area which  
10 should be reviewed is the cost treatment of ancillary costs within Accounts 364-368.  
11 Ancillary costs include the costs of such items as insulators, transformer platforms, regulators,  
12 and capacitors included in Accounts 364-368. Applying the MDS component ratio to all costs  
13 may not be advisable, since some of those assets are only demand-related and other assets are  
14 only customer-related.

15 **Q. Beyond the technical issues pertaining to measuring cost causation, what are**  
16 **some of the regulatory impacts associated with the adoption of an MDS methodology?**

17 A. The MDS provides two methods for recognizing the customer related costs in  
18 Accounts 364 through 368 which are missed by DOCC, albeit with the technical cost  
19 measurement issues noted above. Beyond those considerations, some of the consequences of  
20 the selection of cost classification methodologies involve ratemaking impacts. Rates based on  
21 DOCC feature lower customer charges and higher energy and demand charges than rates  
22 based on the MDS. Rates based on DOCC therefore provides clearer price signals for  
23 encouraging conservation than do rates based on the MDS methodology. For the same reason,  
24 rates based on DOCC also provide a customer with more control over his/her electric bill,  
25 which benefits the customer. Likewise, rates based on DOCC may reduce the incentive for

1 seasonal customers to disconnect and reconnect service since fixed customer charges are  
2 lower under DOCC than the MDS.

3 On the other hand, rates based on the MDS may provide greater revenue stability to  
4 utilities. Under the MDS, rates may provide utilities a more certain and steady revenue stream  
5 as a result of higher customer charges and lower demand and energy charges, thereby reducing  
6 the utility's financial risk.

7 **Q. Would you please summarize your testimony?**

8 A. Yes. The classification of distribution costs in Accounts 364 through 368 (poles,  
10 conductors, and transformers) present a challenge and a dilemma for the Commission to  
11 resolve. The Commission's traditional method of cost classification, DOCC, misclassifies  
12 certain customer related costs, but the extent of misclassification is uncertain. Meanwhile, the  
13 MDS methodologies recognize customer related costs but the methodologies present  
14 significant cost measurement issues impacting the customer-related and demand-related  
15 components. Confidence in the methodology and the underlying data inputs is essential so  
16 that the Commission can reach an optimal decision regarding the appropriate treatment of  
17 distribution costs in this case.

18 **Q. Does this complete your testimony?**

19 A. Yes.  
20  
21  
22  
23  
24  
25

1                                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2   **COMMISSION STAFF**

3   **DIRECT TESTIMONY OF JEFFERY A. SMALL**

4   **DOCKET NO. 130040-EI**

5   **JULY 25, 2013**

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

7   **A.     My name is Jeffery A. Small and my business address is 4950 West Kennedy Blvd,**  
8   **Suite 310, Tampa, Florida, 33609.**

9   **Q.     By whom are you presently employed and in what capacity?**

10 **A.     I am employed by the Florida Public Service Commission as a Professional**  
11 **Accountant Specialist in the Office of Auditing and Performance Analysis.**

12 **Q.     How long have you been employed by the Commission?**

13 **A.     I have been employed by the Florida Public Service Commission (FPSC) since January**  
14 **1994.**

15 **Q.     Briefly review your educational and professional background.**

16 **A.     I have a Bachelor of Science degree in Accounting from the University of South**  
17 **Florida. I am also a Certified Public Accountant licensed in the State of Florida.**

18 **Q.     Please describe your current responsibilities.**

19 **A.     Currently, I am a Professional Accountant Specialist with the responsibilities of**  
20 **planning and directing the most complex investigative audits. Some of my past audits include**  
21 **cross-subsidization issues, anti-competitive behavior, and predatory pricing. I am also**  
22 **responsible for creating audit work programs to meet a specific audit purpose and integrating**  
23 **EDP applications into these programs.**

24 **Q.     Have you presented expert testimony before this Commission or any other**  
25 **regulatory agency?**

1 A. Yes. I have provided testimony in the Progress Energy Florida, Inc. (PEF) Nuclear  
2 Cost Recovery Clause Filings, Docket Nos. 080009-EI, 090009-EI, 100009-EI, 110009-EI,  
3 120009-EI and 130009-EI.

4 I have also testified in the Southern States Utilities, Inc. rate case, Docket No. 950495-WS, the  
5 transfer application of Cypress Lakes Utilities, Inc., Docket No. 971220-WS, and the Utilities,  
6 Inc. of Florida rate case, Docket No. 020071-WS.

7 **Q. What is the purpose of your testimony today?**

8 A. The purpose of my testimony is to sponsor the staff Auditors' Report of Tampa  
9 Electric Company (TEC) which addresses the Utility's application for rate relief in Docket  
10 No. 130040-EI, for the historical year end 2012. This Auditor's Report is filed with my  
11 testimony and is identified as Exhibit JAS-1.

12 **Q. Was the audit prepared by you or under your direction?**

13 A. Yes, the audit was prepared by me and under my direction.

14 **Q. Please describe the work you performed in the audit.**

15 A. The following procedures were performed.

- 16 • We verified, based on a sample of Plant in Service (PIS) additions, retirements and  
17 adjustments for selected plant accounts, that the Utility's PIS is properly recorded for  
18 the period January 1, 2008 through December 31, 2012. We recalculated a sample of  
19 13-month average balances for PIS included in the filing.
- 20 • We verified, based on a sample of Property Held for Future Use (PHFU) properties  
21 presented in the filing, that the PHFU balance is properly stated as of December 31,  
22 2012. We reviewed documents describing the planned use for properties in our sample  
23 and inquired about changes in use for existing properties. We recalculated a sample of  
24 13-month average balances for PHFU included in the filing.
- 25 • We verified, based on a sample of Construction Work in Progress (CWIP) projects

1 included in the filing, that the CWIP balance is properly stated as of December 31,  
2 2012. We reviewed utility documents describing each project sampled to determine  
3 whether it was eligible to accrue Allowance for Funds Used During Construction  
4 (AFUDC). We verified that projects accruing AFUDC were not included in rate base  
5 in the filing. We recalculated a sample of 13-month average balances for CWIP  
6 included in the filing.

- 7 • The objectives were to determine whether accruals, retirements and adjustments to  
8 Accumulated Depreciation (AD) are properly recorded in compliance with the  
9 Uniform System of Accounts (USOA), and to verify that the Utility used the  
10 depreciation rates established in Commission Order No. PSC-12-0175-PAA-EI –  
11 Petition for Approval of 2011 Depreciation Study and Annual Dismantlement Accrual  
12 Amounts by Tampa Electric Company, issued April 3, 2012, and, to recalculate the 13-  
13 month average balance for AD as of December 31, 2012.
- 14 • We verified, based on a sample of selected accounts, that the Working Capital (WC)  
15 balance is properly stated, utility in nature, non-interest bearing, does not include non-  
16 utility items and is consistent with the order cited above. We verified, based on a  
17 sample of selected accounts that the accumulated provision accounts year end balances  
18 comply with the Commission rule cited above. We recalculated a sample of 13-month  
19 average balances for selected WC accounts included in the filing.
- 20 • We traced the equity account balances to the general ledger. We verified retained  
21 earnings by reconciling a sample of dividend distributions to the dividend declarations  
22 of the TECO Energy, Inc. Board of Directors. We recalculated the 13-month average  
23 balance for equity included in the filing.
- 24 • We reconciled the Long Term Debt (LTD) balance to the general ledger. We traced  
25 the LTD obligations and the unamortized loss on reacquired debt balance to the

1 original documents and verified the terms, conditions, redemption provisions and  
2 interest rates for each bond or note payable. We sampled and verified the cost of LTD.  
3 We recalculated the average cost rate and the 13-month average balance for LTD  
4 included in the filing.

5 • We reconciled the Short Term Debt (STD) balance to the general ledger. We traced  
6 the STD obligations to the supporting documents. We verified the average cost of  
7 STD. We recalculated the average cost rate and the 13-month average balance for  
8 STD included in the filing.

9 • We reconciled the Customer Deposit (CD) balance to the general ledger. We inquired  
10 and verified that the Utility is collecting, refunding and paying interest on CD based on  
11 Commission Rule 25-6.097, Florida Administrative Code (FAC) – Customer  
12 Deposits.. We recalculated the average cost rate and the 13-month average balance for  
13 CD included in the filing.

14 • We reconciled the Accumulated Deferred Income Tax balances to the general ledger  
15 and to the federal tax returns. We recalculated the 13-month average balance included  
16 in the filing.

17 • We reconciled the Investments Tax Credit balances to the general ledger. We  
18 recalculated the average cost rate and the 13-month average balance for ITC included  
19 in the filing.

20 • We reconciled 2012 revenues to the general ledger. We reviewed Commission audits  
21 of the Utility's cost recovery clauses, which included recalculations of a sample of  
22 customer bills, to ensure that the Utility was using the rates authorized in its approved  
23 tariff. We verified that unbilled revenues were calculated correctly.

24 • We verified, based on a sample of utility transactions for select Operation &  
25 Maintenance (O&M) expense accounts, that 2012 O&M expense balances are

1 adequately supported by source documentation, utility in nature and do not include  
2 non-utility items and are recorded consistent with the USOA. We reviewed samples of  
3 utility advertising expenses, legal fees, outside service expenses, sales expenses,  
4 customer service expenses and administrative and general service expenses to ensure  
5 that amounts supporting non-utility operations were removed. We reviewed a sample  
6 of intercompany allocations and charges to determine if expenses were allocated  
7 pursuant to Commission Rule 25-6.1351 – Cost Allocation and Affiliate Transactions,  
8 F.A.C.

- 9 • We recalculated a sample of depreciation expense accruals to verify that the Utility is  
10 using the correct depreciation rates cited above.
- 11 • We verified, based on a sample of transactions for select Taxes Other Than Income  
12 (TOTI) accounts, that TOTI expenses are adequately supported by source  
13 documentation.
- 14 • We traced federal and state income taxes to the general ledger. We documented bonus  
15 depreciation treatment for asset additions. We verified that adjustments to income tax  
16 expense are consistent with the USOA and calculated correctly.
- 17 • We developed a five-year (2008 -2012) analytical review that compared the annual  
18 percentage change and the 2012 over 2007 total percentage change for the Federal  
19 Energy Regulatory Commission (FERC) account balances. Accounts that exhibited  
20 significant activity or percentage change, as determined by the auditor, were randomly  
21 selected for additional review.
- 22 • We reviewed the 2007 and 2008 FERC audit reports for TEC, that were issued on  
23 August 21, 2007 and August 18, 2008, respectively. We reviewed the 2012 annual  
24 report and associated audit work papers for TECO and its subsidiaries, including TEC.  
25 The annual report was released on February 26, 2013, and included the unqualified



1 opinion by PricewaterhouseCoopers (PWC) of TECO consolidated operations.

- 2 • We reviewed the respective Board of Directors meeting minutes for TEC and TECO  
3 through March 15, 2013, for activities or issues that could affect TEC in the current  
4 rate case proceeding.

5 **Q. Were there any audit findings in the audit report, JAS-1, which address the**  
6 **historical 2012 balance in the Utility's filing.**

7 **A.** No

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

9 **A.** Yes, it does.

10

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1                                   **BEFORE THE PUBLIC SERVICE COMMISSION**2                                   **REBUTTAL TESTIMONY**3                                   **OF**4                                   **KAREN J. LEWIS**

5  
6     **Q.** Please state your name, business address, occupation and  
7            employer.

8  
9     **A.** My name is Karen J. Lewis. My business address is 702  
10           North Franklin Street, Tampa, Florida 33602. I am  
11           employed by Tampa Electric Company ("Tampa Electric" or  
12           "company") as Director, Customer Services.

13  
14    **Q.** Please describe your educational background and business  
15            experience.

16  
17    **A.** In 1984, I received a Bachelor's of Science in Industrial  
18            Engineering from Auburn University. Upon graduation I  
19            joined Gulf Power Company, where I worked for two years  
20            before joining Progress Energy and working there from  
21            1987 to 2001. In 2001, I joined Tampa Electric as a  
22            Director in Energy Delivery where I worked in various  
23            management roles until 2009. In 2009, I became Director  
24            Customer Services for Tampa Electric and Peoples Gas,  
25            which is my current position.

1 Q. What are your responsibilities as the Director of  
2 Customer Services?

3

4 A. I have responsibility for the following Customer Service  
5 functions for both Tampa Electric and Peoples Gas. The  
6 functions include, but are not limited to the call center  
7 front line operations, call center support functions  
8 (training, workforce scheduling, workforce performance  
9 metrics), billing, payments, credit and collections and  
10 escalated customer complaints.

11

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

13

14 A. The purpose of my rebuttal testimony is to address errors  
15 and shortcomings in the prepared direct testimony of  
16 witnesses Helmuth W. Shultz, III, and Donna Ramas,  
17 testifying on behalf of the Office of Public Counsel  
18 ("OPC") and Lane Kollen testifying on behalf of the West  
19 Central Hospital Utility Alliance ("HUA").

20

21 Q. Have you prepared an exhibit supporting your rebuttal  
22 testimony?

23

24 A. Yes, I have. My Exhibit No. \_\_ (KJL-1), consisting of  
25 four documents, was prepared by me or under my direction

1 and supervision.

2	Document No. 1	JD Power & Associates Survey
3		Results 2010-2013
4	Document No. 2	Call Center Staffing and Service
5		Levels 2009-2013
6	Document No. 3	Write Off Trends 2008-2012
7	Document No. 4	Florida Public Service Commission
8		("FPSC") Complaint Trends 2008-
9		2013

10

11 **Q.** Please summarize the key concerns and disagreements you  
12 have regarding the substance of witnesses Shultz's,  
13 Ramas's and Kollen's testimonies.

14

15 **A.** My key concerns and disagreements are as follows:

16 1. I disagree with witness Shultz's assertion that an  
17 adjustment to remove 104 of the 114 positions in the  
18 company's test year is appropriate. Of those 114  
19 positions, 16 are customer service related positions  
20 that are essential to maintain appropriate service  
21 levels and minimize uncollectible revenues. The  
22 Commission should not make an adjustment to reduce  
23 operations and maintenance ("O&M") expense for these  
24 16 positions.

25 2. I disagree with witness Ramas's and witness Kollen's

1 position that a reduction to uncollectible expense  
2 is appropriate. I will explain how the company's  
3 efforts to reduce bad debt have benefited customers  
4 and why the expense level requested by the company  
5 is reasonable, prudent and necessary.

6 3. I disagree with witness Kollen's position that a  
7 reduction of call center expense is appropriate. I  
8 will explain the drivers for incremental call center  
9 expense and why those expenses are appropriate,  
10 reasonable and prudent to maintain adequate customer  
11 service levels.

12  
13 **APPROPRIATE HEADCOUNT LEVELS**

14 **Q.** Are additional call center positions necessary to  
15 maintain and improve service levels?

16  
17 **A.** Yes. Of the proposed headcount reductions in witness  
18 Shultz's testimony, 16 of the 104 are in Customer  
19 Service. Of those 16 positions, 12 are in the call  
20 center, three are in Billing & Payments and one is an  
21 Administrative Assistant.

22  
23 Call center Representative staffing in 2012 was well  
24 below historical levels. In 2012, call center staffing  
25 was reduced in an effort to control costs by cancelling

1 new hire classes and not addressing normal attrition with  
2 new hires. Staffing reductions had a negative effect on  
3 customer service levels, which is reflected in the  
4 company's JD Power & Associates survey results shown in  
5 Document No. 1 of my exhibit. In order to address the  
6 decline in customer service levels, in 2013, 12  
7 additional call center Representatives were hired. As a  
8 result, call center response times and customer  
9 satisfaction have improved.

10  
11 **Q.** What positions have been filled or are being budgeted to  
12 be filled in 2014?

13  
14 **A.** As of the date of the filing of this rebuttal testimony,  
15 the company has filled 16 of the 16 customer service  
16 positions that witness Schultz has proposed to adjust.  
17 Of the 16 who have been hired, 14 are front line customer  
18 service agents who spend the vast majority of their time  
19 dealing directly with customers. The other two positions  
20 provide administrative support for Customer Service.

21  
22 A Senior Administrative Specialist was hired to provide  
23 support to the Director and three Managers, and that  
24 position is the only administrative support for that  
25 group. An Administrative Specialist vacancy in Billing &

1           Payments was filled because the incumbent was promoted to  
2           another position within the company. This vacancy was  
3           filled in 2013, and that position is the sole  
4           administrative support for 32 team members. Finally, two  
5           Billing Payment Specialists were hired in 2012 to help  
6           handle the increasing workload within the department.

7  
8           **Q.** What functions do call center Representatives perform  
9           that impact customer satisfaction?

10  
11           **A.** The company has two call center locations, one in Tampa  
12           and one in Plant City. Together, the two call centers  
13           employ 108 call center representatives. Customers can  
14           reach the call centers through a local or toll free  
15           number. Calls are passed through an Integrated Voice  
16           Response ("IVR") system to enable self-service options.  
17           Approximately 50 percent of the inbound customer calls  
18           are serviced within the IVR. The remaining 50 percent of  
19           our customers that elect to speak with a representative  
20           are routed to the first available agent. As one would  
21           expect, lower staffing levels result in longer wait times  
22           for customers that need to speak with a representative.

23  
24           **Q.** What metrics does the company monitor to assess the level  
25           of customer service provided by the call centers?

1     **A.**    The time it takes for a customer to speak with a  
2            representative is represented in the Customer Service  
3            Professional ("CSP") Service Level metric and the Average  
4            Speed of Answer ("ASA") metric shown in Document No. 2 of  
5            my exhibit.    The company strives to answer at least 65  
6            percent of these calls within 30 seconds.    In 2011, there  
7            were 109 agents handling customer calls, and the CSP  
8            Service Level was 70 percent.    In 2012, there were 98  
9            agents handling residential calls, and the CSP Service  
10           Level dropped to 53 percent.    The service level metric  
11           shows the direct correlation between call center service  
12           levels and customer satisfaction.    The decline in call  
13           center response time and the desire to continue improving  
14           response times is why the company increased the number of  
15           team members employed at the call centers.

16  
17     **Q.**    Do you believe the company will be able to maintain its  
18            level of customer service in the call center if the  
19            Commission accepts witness Schultz's proposed elimination  
20            of 16 call center positions?

21  
22     **A.**    No, I do not.    The company needs the additional positions  
23            to improve customer service and cannot reduce those  
24            positions without jeopardizing service levels.

25



1     **CALL CENTER EXPENSES**

2     **Q.**    Do you agree with witness Kollen's statement that test  
3            year call center expenses have not been justified?  
4

5     **A.**    No.    As previously stated, the company has already added  
6            12 call center agents in 2013, resulting in an  
7            incremental annual labor cost of \$550,000. Call center  
8            staffing was reduced in 2012 as a means to reduce costs.  
9            As a result, customer service levels and customer  
10           satisfaction declined. The 12 positions added in 2013  
11           restored staffing to previous levels. Document Nos. 1  
12           and 2 of my exhibit illustrate the correlation between  
13           resources, customer satisfaction and customer service  
14           levels.  
15

16    **Q.**    How is the call center performance tracked?  
17

18    **A.**    The call center uses qualitative and quantitative  
19           measures to evaluate performance. The company strives  
20           for a high level of customer satisfaction, and the call  
21           center places a great deal of focus on meeting the  
22           individual needs of each customer in an efficient,  
23           effective and pleasant manner. The qualitative measures  
24           include monitoring 100 percent of the calls and  
25           supervisor monitoring of a sufficient number of calls to

1 ensure that CSP agents are meeting expectations. A  
2 Quality Assurance team also takes samples of calls from  
3 all representatives and evaluates the agents'  
4 performances. Other quantitative measures include the  
5 ASA and the CSP Agent's Service Level.  
6

7 **Q.** What does the company consider to be acceptable call  
8 center performance and how has the company performed over  
9 the past several years?  
10

11 **A.** The company strives to answer 65 percent of customer  
12 calls within 30 seconds. The company also focuses on  
13 other metrics such as ASA and the percent of calls that  
14 are abandoned (customer hangs up due to extended wait  
15 time). Historical 2009 through 2013 call center  
16 performance is illustrated in Document No. 2 of my  
17 exhibit. In late 2012, the call center dedicated a great  
18 deal of time and resources toward implementing an  
19 initiative known internally as "WOW". An outside  
20 consultant was brought in that had worked with numerous  
21 call centers for electric utilities. The consultant  
22 spent six months working with call center management.  
23 The WOW initiative focused on front line supervisors  
24 first and involved a great deal of training for the  
25 supervisors. Once management training was complete, the

1 CSP Agents were trained and they are continuously  
2 evaluated on WOW principles. This program has been very  
3 effective and has contributed to the increase in customer  
4 satisfaction in 2013.

5  
6 **Q.** How does the company measure customer satisfaction?

7  
8 **A.** Customer satisfaction is measured in various ways. The  
9 company started an after call survey in 2013 to solicit  
10 direct feedback from customers. Approximately 1,400  
11 customers per month are surveyed and about 19 percent  
12 complete the survey. Year to date, an 82 percent  
13 favorability level has been achieved in survey responses.  
14 Similarly, JD Power & Associates surveys approximately  
15 250 customers each quarter. JD Power & Associates survey  
16 results (specific to the call center) declined when the  
17 number of CSP agents decreased in 2012. After hiring 12  
18 call center agents earlier this year, JD Power &  
19 Associates' scores have improved. The company also looks  
20 at customer complaint activity to gauge customer  
21 satisfaction. FPSC complaints have decreased over the  
22 past several years as reflected in Document No. 4 of my  
23 exhibit.

24  
25 **Q.** Do you agree with witness Kollen's testimony that the

1           \$1.9 million dollar increase in expenses from 2012 to  
2           2014 is not justified?

3

4       **A.**    No.    The increase in call center expenses from 2012 to  
5           2014 is due primarily to increased labor and vendor  
6           maintenance costs.    The call center budget increased  
7           \$861,000 from 2012 to 2013 due to the aforementioned 12  
8           additional CSP agents, merit increases for all call  
9           center employees, costs associated with agent attrition,  
10          maintenance and licensing fees associated with the new  
11          Contact Center Manager ("CCM") application.  In a typical  
12          year, the call center loses up to 25 percent of CSP  
13          agents due to promotion, resignation or termination.  To  
14          mitigate this attrition, two or three new hire classes  
15          are needed each year.    When CSP agents are hired,  
16          staffing levels increase above our targeted average.  The  
17          temporary increase is intentional as new hires are in  
18          training for nine weeks post-hire and therefore not fully  
19          productive; and attrition will gradually lower headcount  
20          over the upcoming months to the targeted average  
21          headcount.

22

23       **Q.**    What is the CCM application and how will it improve  
24           customer service?

25

1     **A.**    The CCM application will be implemented in late 2013 and  
2            consists of an improved, customer-centric IVR and  
3            advanced workforce optimization tools.  The existing IVR  
4            is challenging for customers to navigate, and the company  
5            is responding to customer concerns by implementing a new  
6            and improved IVR application.  The CCM also includes Call  
7            Back Request.  If a Call Center agent is not able to pick  
8            up the customer's call immediately, the customer can  
9            elect a call back instead of being placed on hold.  The  
10           CCM will also enable advanced workforce scheduling and  
11           reporting tools for individual agents, thus increasing  
12           the productivity and efficiency of the call center.  This  
13           CCM application requires annual maintenance and licensing  
14           fees of approximately \$200,000.

15  
16     **Q.**    Do you agree with witness Kollen's testimony that the  
17            company failed to explain why other communication tools  
18            (including customer service interaction portal) has not  
19            relieved pressure on the call center?

20  
21     **A.**    The company does not understand witness Kollen's  
22            definition of "customer service interaction portal".  But  
23            I will describe the mechanisms in place for customers to  
24            interact with CSP agents.  Customers can reach the call  
25            center via local and toll free phone numbers.  The

1           previously mentioned CCM application will enhance the  
2           customer's phone interactions with the company.

3  
4           The company also implemented Power Updates in June 2013.  
5           This service enables two way communications between the  
6           company and customers on power outages.   Previously,  
7           customers called the company's outage reporting phone  
8           number to report an outage.   Power Updates enables  
9           customers to use various modes of technology (mobile  
10          phone, tablet, and email or land-line phone) to report  
11          outages and to receive updates from the company on  
12          restoration status.   The main benefit of the Power  
13          Updates application is that it enables customers to  
14          communicate with the company by means other than a phone  
15          call.   This provides customer convenience and a positive  
16          influence on customer satisfaction.   While it is  
17          certainly a beneficial customer resource, the application  
18          does not influence labor resource needs.

19  
20        **UNCOLLECTIBLE EXPENSE LEVELS**

21        **Q.**   Do you agree with witness Ramas's testimony that Tampa  
22          Electric's test year budgeted uncollectible expense is  
23          excessive?

24  
25        **A.**   No.   The test year budgeted uncollectible expense is

1 reasonable.

2

3 **Q.** What are your responsibilities in the areas of bad debt  
4 collection and bad debt expense?

5

6 **A.** I am responsible for the development and implementation  
7 of strategies related to managing and minimizing the  
8 company's uncollectible expense. This includes ensuring  
9 customers' accounts are properly secured with deposits.  
10 It also includes the management of collections on bad  
11 debt, prevention of bad debt and policies that target the  
12 identification of lost revenue as well as fraud  
13 prevention.

14

15 **Q.** What is bad debt expense?

16

17 **A.** Bad debt expense is the uncollectible revenues which can  
18 result from overdue/late payment of bills or customers  
19 vacating a premise with outstanding balances.

20

21 **Q.** Witness Ramas proposes that the test year uncollectible  
22 expense be based on the actual 2012 ratio of net write-  
23 offs to revenues. Do you believe that is appropriate?

24

25 **A.** No. Using the 2012 ratio of net write-offs to revenues

1 does not take into account unique circumstances in 2012  
2 that resulted in a significant reduction in uncollectible  
3 expenses. The 2014 test year uncollectible expense  
4 represents our expected future uncollectible expense and  
5 includes the impact of the new Credit and Collections  
6 System and other ongoing initiatives to reduce write  
7 offs.

8

9 **Q.** How does the company's proposed level of uncollectible  
10 expense in the test year compare to industry averages and  
11 the company's historical experience?

12

13 **A.** The test year net write-offs to revenues is 0.19 percent  
14 which is significantly lower than the industry average of  
15 0.44 percent<sup>1</sup>. The 2014 test year net write-offs to  
16 revenues is also lower than the company's five year  
17 average of 0.28 percent. Write-offs fluctuate from year  
18 to year and are often influenced by economic conditions.  
19 The write-offs for 2012 were unusually low.

20

21 **Q.** What unique circumstances occurred in 2012 that affected  
22 the uncollectible expenses?

23 **A.** The company implemented a new collections system called  
24 DebtNext. DebtNext replaced a system that was 20 years  
25 old and reduces or eliminates manual work associated with

---

<sup>1</sup> Chartwell Facilitating Knowledge Exchange; Report on Credit and Collections in the Utility Industry 2010 © Chartwell Inc. 2010



1 the credit and collections process. This system is a  
2 vast improvement in how the company manages debt and has  
3 enabled the company to successfully collect on numerous  
4 accounts that had previously not tracked with the old  
5 system.

6

7 **Q.** Please describe the new systems and how they have helped  
8 reduce the level of uncollectible expense.

9

10 **A.** DebtNext searches outstanding account balances for  
11 uncollected debt and attempts to match these accounts  
12 with active accounts by name or social security number.  
13 When a match is determined and the transfer balance  
14 process begins, the system will generate letters advising  
15 the customer that an unpaid balance has been located and  
16 transferred to their account. If, after 60 days the  
17 payment has not been received, DebtNext automatically  
18 sends the account to the collection agency for recovery.

19

20 **Q.** What sustainable initiatives have been implemented that  
21 will keep uncollectible expense lower than pre-2011  
22 levels?

23

24 **A.** The company developed many initiatives over the past  
25 several years to minimize uncollectible expense. The new

1 Credit and Collections System, DebtNext, has been  
2 discussed, and there are two other major initiatives that  
3 have impacted uncollectible expense. The company  
4 sharpened its procedures to ensure that it can positively  
5 identify customers applying for service. The company  
6 uses an outside vendor (Equifax) to validate the  
7 identification of new customers by confirming credit  
8 information, e.g., social security numbers or driver's  
9 license information to confirm the identity of the person  
10 applying for service. These procedures were implemented  
11 in 2010 and have had a positive effect on write-offs and  
12 fraud. Over the last several years, there has also been  
13 a focus on customer deposits, including an extensive  
14 review of all residential, commercial and industrial  
15 accounts to ensure all customer accounts were adequately  
16 secured.

17  
18 **Q.** Have these new systems and initiatives shown positive  
19 results?

20  
21 **A.** Yes. Document No. 3 of my exhibit illustrates the  
22 revenues and net write-off trends from 2008 through 2012.  
23 The average net write-offs from 2008 through 2012 was  
24 \$5.7 million or 0.28 percent of revenue. After DebtNext  
25 was implemented in April 2011, the company experienced

1 the peak benefit of the new system as net write-offs  
2 dropped to \$2.3 million or 0.122 percent of revenue.  
3 DebtNext has now completed the full review of all  
4 existing debt and has exhausted any further matches with  
5 active customers for collection. Therefore, the low  
6 level of 2012 write-offs was a unique situation that is  
7 not sustainable. While the company expects that the  
8 DebtNext system will prevent write-offs from climbing  
9 back to the pre-2011 levels, the 2012 write-off level was  
10 a result of the system working through the company's  
11 existing customer base and capturing uncollectible  
12 expenses that were not detected in the past.

13  
14 The 2014 test year uncollectible expense of \$3.6 million  
15 is a reasonable estimate of the annual expected  
16 uncollectible expense. The company will continue to make  
17 all efforts to hold write-offs at or below this level  
18 going forward. However, the 2014 proposed test year  
19 uncollectible expense of \$3.6 million is considerably  
20 lower than the 2008 through 2012 average of \$5.7 million  
21 and should be approved.

22  
23 **Summary of Rebuttal Testimony**

24 Q. Please summarize your rebuttal testimony.  
25

1     **A.**    The company has justified that its requested level of  
2            call center expense for 2014 is appropriate.   Staffing  
3            levels declined considerably from 2011 to 2012, resulting  
4            in lower service levels and decreased customer  
5            satisfaction.   The increase in customer service expense  
6            between 2012 and 2014 expense is primarily due to  
7            reaching and maintaining appropriate staffing levels,  
8            merit increases, and increased maintenance/license  
9            expense associated with a new CCM program.

10

11           The company has also justified its requested level of  
12            uncollectible expense for the 2014 test year as  
13            reasonable.   The five-year average for write-offs is \$5.7  
14            million or 0.28 percent of revenue.   The test year budget  
15            of \$3.6 million or 0.19 percent of revenues is well below  
16            the five-year average.   The company has implemented  
17            various programs, policies and procedures to lower write-  
18            offs; however, the 2012 levels should not be considered a  
19            baseline year because the implementation of a new  
20            collections system distorted that year's write-offs as a  
21            percentage of revenue statistics.

22

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

24

25     **A.**    Yes, it does.

1                                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2                                   **PREPARED REBUTTAL TESTIMONY**3                                   **OF**4                                   **TERRY DEASON**5                                   **ON BEHALF OF TAMPA ELECTRIC COMPANY**6  
7   **Q.**   Please state your name and business address.8  
9   **A.**   My name is Terry Deason. My business address is 301 S.  
10       Bronough Street, Suite 200, Tallahassee, Florida 32301.11  
12   **Q.**   By whom are you employed and in what capacity?13  
14   **A.**   I am employed by the Radey Law Firm as a Special  
15       Consultant specializing in the fields of energy,  
16       telecommunications, water and wastewater, and public  
17       utilities generally.18  
19   **Q.**   Please describe your educational background and  
20       professional experience.21  
22   **A.**   I have thirty-six years of experience in the field of  
23       public utility regulation spanning a wide range of  
24       responsibilities and roles. I served a total of seven  
25       years as a consumer advocate in the Florida Office of

1 Public Counsel ("OPC") on two separate occasions. In  
2 that role, I testified as an expert witness in numerous  
3 rate proceedings before the Florida Public Service  
4 Commission ("Commission"). My tenure of service at the  
5 Florida Office of Public Counsel was interrupted by six  
6 years as Chief Advisor to Florida Public Service  
7 Commissioner Gerald L. Gunter. I left OPC as its Chief  
8 Regulatory Analyst when I was first appointed to the  
9 Commission in 1991. I served as Commissioner on the  
10 Commission for sixteen years, serving as its chairman on  
11 two separate occasions. Since retiring from the  
12 Commission at the end of 2006, I have been providing  
13 consulting services and expert testimony on behalf of  
14 various clients, including public service commission  
15 advocacy staff and regulated utility companies, before  
16 commissions in Arkansas, Florida, Montana, New York and  
17 North Dakota. My testimony has addressed various  
18 regulatory policy matters, including: regulated income  
19 tax policy; storm cost recovery procedures; austerity  
20 adjustments; depreciation policy; subsequent year rate  
21 adjustments; appropriate capital structure ratios; and  
22 prudence determinations for proposed new generating  
23 plants and associated transmission facilities. I have  
24 also testified before various legislative committees on  
25 regulatory policy matters. I hold a Bachelor of Science

1 Degree in Accounting, summa cum laude, and a Master of  
2 Accounting, both from Florida State University.

3  
4 **Q.** Have you prepared an exhibit supporting your Rebuttal  
5 Testimony?

6  
7 **A.** Yes, I have. My Exhibit No. \_\_ (TD-1), consisting of  
8 three documents, was prepared by me or under my direction  
9 and supervision. These consist of:

10 Document No. 1: Biographical Information for Terry  
11 Deason

12 Document No. 2: Consulting Services and Expert  
13 Testimony Provided by Terry Deason

14 Document No. 3: Amortization of a \$10 Million  
15 Hypothetical Investment

16

17 **Q.** For whom are you appearing as a rebuttal witness?

18

19 **A.** I am appearing as a rebuttal witness for Tampa Electric  
20 Company ("Tampa Electric" or "the company").

21

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

23

24 **A.** The purpose of my rebuttal testimony is to respond to  
25 certain assertions and recommendations made by intervenor

1 witnesses Chriss, Gorman, Kollen, Pous, and Schultz. The  
2 issues I address in rebuttal to these witnesses are:  
3 Projected Test Year; Construction Work In Progress;  
4 Reconciliation of Rate Base and Capital Structure;  
5 Operations & Maintenance Expenses; Equity Ratio;  
6 Amortization of Software; Incentive Compensation; and,  
7 Directors and Officers Liability Insurance.

8  
9 **PROJECTED TEST YEAR**

10 **Q.** What is the test year being used in this proceeding?

11  
12 **A.** A 2014 projected test year.

13  
14 **Q.** What does witness Chriss say about the use of a projected  
15 test year?

16  
17 **A.** Witness Chriss states that a projected test year reduces  
18 regulatory lag and suggests that its use should result in  
19 a lower return on equity ("ROE") for Tampa Electric. He  
20 goes on to quote from Order No. PSC-02-0787-FOF-EI.

21  
22 **Q.** Do you agree with Witness Chriss?

23  
24 **A.** I agree that the use of a projected test helps mitigate  
25 regulatory lag. I disagree with his suggestion that the



1 use of a projected test year should result in a lower  
2 ROE. Projected tests years are the established practice  
3 in Florida and have their origin as far back as 1983,  
4 when the Florida Supreme Court addressed the use of  
5 projected test years. In 443 So.2d 92, the Court stated:

6  
7 Nothing in the decisions of this Court or any  
8 legislative act prohibits the use of a  
9 projected test year by the Commission in  
10 setting a utility's rates. We agree with the  
11 Commission that it may allow the use of a  
12 projected test year as an accounting mechanism  
13 to minimize regulatory lag. The projected test  
14 period established by the Commission is a  
15 ratemaking tool which allows the Commission to  
16 determine, as accurately as possible, rates  
17 which would be just and reasonable to the  
18 customer and properly compensatory to the  
19 utility.

20  
21 Given that projected test years are the established  
22 practice in Florida, their continued use is a reasonable  
23 expectation of investors and is already reflected in the  
24 market metrics used to estimate a regulated utility's  
25 cost of equity capital. Only if the Commission were to

1           revert to the use of historical test years would there be  
2           an impact on the capital markets. In that event, the  
3           cost of equity capital would likely be higher, not lower.

4

5   **Q.**    Are you familiar with the Order cited by witness Chriss?

6

7   **A.**    Yes, I am. This Order granted a rate increase to Gulf  
8           Power Company("Gulf") in 2002. The use of a projected  
9           test year was questioned by OPC, which sponsored the  
10          testimony of Helmuth W. Schultz III. Witness Schultz  
11          found fault with the projected test year and offered  
12          support for an adjusted historical year. The order  
13          stated:

14

15                 Witness Schultz testified that he made a number  
16                 of adjustments based upon a historical level of  
17                 spending that he considered sufficient to  
18                 provide the quality of service. In his  
19                 opinion, the historical spending should be used  
20                 when establishing rates, especially when  
21                 considering the lack of detail in the company's  
22                 budget.

23

24   **Q.**    What did the Commission decide?

25

1 **A.** While noting that historical and projected test years  
2 each have strengths and weaknesses, the Commission  
3 affirmed the use of a projected test year. In rejecting  
4 witness Schultz's approach, the Commission stated:

5  
6 The historical test year has the advantage of  
7 using actual data for much of rate base, NOI,  
8 and capital structure; however, the pro forma  
9 adjustments usually do not represent all the  
10 changes that occur from the end of the  
11 historical period to the time new rates are in  
12 effect. Therefore, this option generally does  
13 not present as complete an analysis of the  
14 expected financial operations as a projected  
15 test year.

16  
17 **Q.** Is this finding instructive for the use of a projected  
18 test year for Tampa Electric in 2014?

19  
20 **A.** Yes, very much so. While I am not aware of any direct  
21 challenge to the use of a projected test year for Tampa  
22 Electric, as was the case for Gulf, there are intervenor  
23 witnesses who indirectly challenge it. They do this by  
24 relying on an historical year adjusted for inflation or  
25 an average of a series of historical years to place a

1 limitation on costs eligible for recovery. Witness  
2 Kollen's use of a "top-down" approach based on 2012 to  
3 determine his recommended level of operations and  
4 maintenance (O&M) expenses is a good example. This  
5 approach and other adjustments recommended by witness  
6 Kollen and witness Schultz are essentially reverting to  
7 the use of a historical test year for selected issues.  
8 The regulatory policy shortcomings of their approach for  
9 certain issues are further addressed by me later in my  
10 testimony. More importantly, the fallacies of their  
11 positions are explained in greater detail by Tampa  
12 Electric operational witnesses. These witnesses explain  
13 how intervenor adjustments deny them the level of  
14 resources needed to reliably and effectively provide  
15 services in 2014 and beyond. Their testimony goes from  
16 regulatory theory to real world impacts of the intervenor  
17 adjustments.

18  
19 **Q.** What is your recommendation?  
20

21 **A.** I recommend that the Commission reaffirm the use of a  
22 projected test year and utilize Tampa Electric's 2014  
23 projections as the basis to set rates in 2014 and beyond.  
24 Only if it is determined that the 2014 projections are  
25 biased, inherently flawed, or yield unreasonable results,

1 should there be adjustments. It is Tampa Electric's  
2 burden to demonstrate that their projections are  
3 appropriate and reasonable. However, a mere observation  
4 that the 2014 projections are greater than historical  
5 escalations or historical averages, as is done by various  
6 intervenor witnesses, is not sufficient to reject the  
7 projections out-of-hand and impose strict limitations on  
8 recoverable costs. As observed by the Florida Supreme  
9 Court, the ultimate goal is "to determine, as accurately  
10 as possible, rates which would be just and reasonable to  
11 the customer and properly compensatory to the utility."  
12 I fear that many of the historically based intervenor  
13 adjustments result in artificial limitations on otherwise  
14 prudent and necessary costs. As such, these adjustments  
15 would be inconsistent with this goal.

16  
17 **CONSTRUCTION WORK IN PROGRESS**

18 **Q.** What is Construction Work In Progress?

19  
20 **A.** Construction Work in Progress ("CWIP") is FERC Account  
21 107 which reflects the total of work order balances for  
22 electric plant that is in the process of being  
23 constructed.

24  
25 **Q.** Is CWIP a necessary part of providing quality utility

1 service?

2

3 **A.** Yes, it is. A well-managed utility focused on providing  
4 quality and cost effective service will deploy capital to  
5 construct new and/or modernize existing facilities to  
6 meet these objectives.

7

8 **Q.** Recognizing that CWIP is a necessary part of providing  
9 quality utility service, should it be permitted to earn a  
10 return?

11

12 **A.** Yes, it should.

13

14 **Q.** How should this be accomplished?

15

16 **A.** It should be accomplished in one of two ways. First,  
17 balances in CWIP could be allowed to accrue on Allowances  
18 for Funds Used During Construction ("AFUDC"). The  
19 Commission has adopted Rule 25-6.0141, F.A.C., which sets  
20 forth the calculation of AFUDC and the eligibility  
21 requirements of those construction projects which  
22 qualify. The second way is to allow CWIP in rate base.

23

24 **Q.** Is there a fundamental difference between the two  
25 approaches?

1     **A.**    Yes, there is.   Accruing AFUDC adds to the capital costs  
2           of a project.   The return is an accounting entry only and  
3           is actually realized when the capital asset is included  
4           in rate base and is depreciated.   Including CWIP in rate  
5           base avoids increasing the capital cost of the project  
6           through AFUDC and earns a return in rates while the  
7           project is being constructed.

8  
9     **Q.**    What are the main reasons why a CWIP project would not  
10          qualify for AFUDC?

11  
12    **A.**    There are two main reasons.    First, under the  
13          Commission's AFUDC rule, if the project's construction  
14          period is less than 12 months, it does not qualify.  
15          Second, if the project is allowed in rate base, it does  
16          not qualify for AFUDC.

17  
18    **Q.**    What is witness Chriss recommending for CWIP for Tampa  
19          Electric?

20  
21    **A.**    Witness Chriss recommends that \$174.1 million of CWIP be  
22          excluded from Tampa Electric's rate base and be denied a  
23          return.

24  
25    **Q.**    How is a return being denied?

1 **A.** The \$174.1 million represents short-term construction  
2 projects which do not qualify for AFUDC under the  
3 Commission's rule. If these projects are not included in  
4 rate base, Tampa Electric will be denied an opportunity  
5 to earn a return on capital that it has deployed to  
6 adequately meet its customers' need for service.

7  
8 **Q.** Witness Chriss rationalizes his recommended disallowance  
9 on the grounds that the \$174.1 million is not used and  
10 useful. Do you agree?

11  
12 **A.** No, I do not. First, it needs to be understood that an  
13 accounting classification does not mean that invested  
14 amounts are not providing benefits to customers.  
15 Customers expect and deserve to have facilities in place  
16 to serve them when needed and to modernize existing  
17 facilities when it is cost-effective and/or improves  
18 service. In fact, if Tampa Electric did not make these  
19 investments, it could be sanctioned by the Commission for  
20 not doing so.

21  
22 Second, capital projects take time to construct, some  
23 longer than others. Costs are incurred to carry these  
24 projects to their ultimate completion. A project with a  
25 construction time of less than 12 months still incurs



1 these carrying costs and these costs should be recognized  
2 in setting rates. Not doing so would be analogous to a  
3 bank not having to pay interest on CDs of less than 12  
4 months. Obviously, investors expect a return on capital  
5 for the entire time that it is invested, not for just  
6 when it exceeds 12 months.

7  
8 Third, labeling an investment as "not used or useful"  
9 does not mean that it should automatically be excluded  
10 from rate base and denied the opportunity to earn a  
11 return. The Commission, in adopting Rule 25-6.041,  
12 F.A.C., recognizes that CWIP can be allowed in rate base.  
13 Even long-term projects that otherwise would qualify for  
14 AFUDC can be included in rate base to maintain a  
15 utility's financial integrity.

16  
17 **Q.** How is financial integrity threatened by large amounts of  
18 CWIP?

19  
20 **A.** A large construction program can put financial strains on  
21 a utility, even if AFUDC is allowed. AFUDC is a non-cash  
22 accounting entry with delayed realization of earnings.  
23 With insufficient cash flows, bond ratings can be  
24 threatened. In addition, denying both AFUDC and rate  
25 base inclusion, as witness Chriss suggests, would only

1           exacerbate potential negative financial impacts.

2

3   **Q.**   Has the Commission allowed the inclusion in rate base of  
4           CWIP which is ineligible for AFUDC?

5

6   **A.**   Yes, this is the Commission's established practice.  The  
7           Commission has acknowledged that short-term construction  
8           projects are a necessary part of providing quality  
9           service and should be allowed in rate base as opposed to  
10          accruing AFUDC.

11

12   **Q.**   Has the Commission ever conducted an investigation into  
13          the proper accounting and ratemaking treatment for CWIP?

14

15   **A.**   Yes, the Commission conducted such an investigation in  
16          Docket No. 72609-PU and issued its findings in Order No.  
17          6640, dated April 28, 1975.

18

19   **Q.**   What were the Commission's findings?

20

21   **A.**   The Commission reaffirmed its previous findings that  
22          there should be two (and only two) options for CWIP.  The  
23          Commission stated:

24

25                   The        Commission's        currently        prescribed

1            accounting treatment of AFDC was established by  
2            Order No. 3143 in Docket No. 6655 issued in  
3            1962. It provides the companies with two  
4            options:

- 5
- 6            a. Charge AFDC on CWIP and not include  
7            CWIP in rate base.
- 8            b. Not charge AFDC and include CWIP in  
9            rate base.

10

11    **Q.** Did the Commission address the proper treatment of  
12    construction projects with shorter construction times?

13

14    **A.** Yes. The Commission did and generally referred to such  
15    projects as "blanket work orders", recognizing that such  
16    projects were generally not great in individual dollar  
17    amounts, and were routine or recurring in nature. Such  
18    projects were accounted for on a blanket work order  
19    basis.

20

21    **Q.** What did the Commission decide for these types of  
22    projects?

23

24    **A.** The Commission recognized that such projects generally do  
25    not receive AFUDC and thus should be included in rate

1 base. The Commission stated:

2

3 Due to the differences in operating  
4 characteristics of the various companies, we  
5 deem it inappropriate and impractical to  
6 attempt to set a standard for the dollar amount  
7 or time span that would be used to determine  
8 the eligibility of certain construction  
9 projects as blanket work orders. However,  
10 since blanket work orders do not receive AFDC  
11 and thus are permitted under our optional  
12 provisions of being included in the rate base,  
13 we believe the levels set by the companies  
14 should be reviewed by this Commission for  
15 purposes of testing their reasonableness.

16

17 It should also be emphasized that in order to  
18 be eligible for inclusion in the rate base,  
19 blanket work orders should not receive AFDC at  
20 any time, either in the past or future.

21

22 **Q.** Has the \$174.1 million of CWIP that Tampa Electric is  
23 requesting to be included in its rate base ever accrued  
24 AFUDC?

25

1     **A.**    No, it has not and therefore, should be included in Tampa  
2            Electric's rate base.

3

4     **Q.**    Witness Chriss asserts that the inclusion of CWIP in rate  
5            base shifts the risks traditionally assumed by investors  
6            to ratepayers. Do you agree with his rationale?

7

8     **A.**    I do not agree. There is no shifting of risk. Investors  
9            have put their capital at risk by investing capital in a  
10           utility and are justifiably seeking a return, either  
11           through rate base inclusion or through the accrual of  
12           AFUDC. This is standard practice and fairly compensates  
13           investors for putting their capital at risk. Ratepayers  
14           have no risk, only the obligation to fairly pay for  
15           service and adequately compensate Tampa Electric's  
16           investors.

17

18    **Q.**    Witness Chriss further opines that any inclusion of CWIP  
19            in rate base should result in a lower authorized return  
20            on equity ("ROE") for Tampa Electric. Do you agree?

21

22    **A.**    No, I do not. As I just stated, there is no shifting of  
23            risk by including CWIP in rate base. To the contrary,  
24            accepting witness Chriss' recommendation would result in  
25            a denial of a return on invested capital and a tremendous

1 shift in established regulatory policy that would upset  
2 settled expectations. This would place even greater  
3 risks on investors. Concomitantly, bondholders would  
4 demand higher interest rates and stockholders would  
5 demand a higher ROE. This is not in the customers' best  
6 interest.

7  
8 **RECONCILIATION OF RATE BASE AND CAPITAL STRUCTURE**

9 **Q.** What is the Commission's policy regarding the  
10 reconciliation of rate base and capital structure?

11  
12 **A.** The Commission's policy is to reconcile the amount of  
13 rate base investment with the amount and sources of  
14 capital in a utility's capital structure which are used  
15 to support the rate base investment. This results in a  
16 matching of sources and uses of capital as a basis to  
17 more accurately determine the costs of providing service  
18 and to calculate a utility's revenue requirement in a  
19 rate proceeding.

20  
21 **Q.** How is the reconciliation accomplished?

22  
23 **A.** It starts with the company's balance sheet taken from its  
24 books and records. The assets as shown on the balance  
25 sheet are jurisdictionalized and adjusted consistent with

1 regulatory policy to result in the company's rate base.  
2 The company's equity, debt, and other liabilities are  
3 then adjusted to equal the rate base. Absent  
4 extraordinary circumstances or special policy  
5 considerations, the adjustments are made on a pro rata  
6 basis over all sources of capital in the company's  
7 capital structure.

8  
9 **Q.** Why is the allocation done on a pro rata basis?

10  
11 **A.** There are three main reasons why it is done pro rata.  
12 First, it is generally understood in the financial  
13 community and specifically recognized within regulation  
14 that funds are fungible and cannot generally be traced  
15 from a specific source to a specific application.  
16 Second, making allocations to deferred taxes on any basis  
17 other than pro rata could have the effect of violating  
18 income tax normalization requirements and putting the  
19 deferred taxes in jeopardy. And third, pro rata is a  
20 fair and easily applied allocation methodology.

21  
22 **Q.** What does witness Gorman recommend in regard to the  
23 reconciliation of rate base and capital structure?

24  
25 **A.** Witness Gorman recommends that the Commission's pro rata

1 allocation methodology be restricted only to investor  
2 sources of capital and not applied at all to deferred  
3 taxes and customer deposits. This has the effect of  
4 over-weighting these sources of capital and  
5 inappropriately reducing Tampa Electric's overall  
6 weighted cost of capital.

7

8 **Q.** What is witness Gorman's rationale for making this  
9 recommendation?

10

11 **A.** Witness Gorman opines that the customers have provided  
12 these sources of capital and should receive the full  
13 benefit of them.

14

15 **Q.** Do you agree with his opinion?

16

17 **A.** No. His opinion that customers have provided the  
18 deferred taxes is debatable. More importantly, his  
19 opinion that customers are not receiving the "full  
20 benefit" is misplaced.

21

22 **Q.** What gives rise to deferred taxes?

23

24 **A.** Deferred taxes are an accounting entry which recognizes  
25 the difference in time between when an amount of income



1 tax expense is recognized on the books and when the  
2 liability arising from that expense becomes payable is  
3 actually paid to the government. The bulk of deferred  
4 taxes generally arise from differences in the amount of  
5 depreciation expense allowed as a deductible expense in  
6 the current period (accelerated depreciation) and the  
7 amount of depreciation expense actually booked as a  
8 current period expense. In this sense, the deferred  
9 taxes are an interest free loan from the government. The  
10 amount of income tax expense recognized as a recoverable  
11 expense in rates is the current period expense and  
12 reflects the current period cost of providing service.  
13 This is what customers pay. The government essentially  
14 allows a delay in the payment, which will be ultimately  
15 paid when the accelerated depreciation reverses in later  
16 years.

17  
18 **Q.** Do customers receive the full benefit of the deferred  
19 taxes?  
20

21 **A.** Yes, they do in two ways. First, the impact of  
22 accelerated depreciation reverses over time and customers  
23 receive the full tax benefit of the depreciation over the  
24 life of the asset pay only the amount of income tax  
25 expense that is eventually paid to the government.

1 Second, during the time that the deferred taxes exist on  
2 the company's books, the zero cost loan from the  
3 government is included in the company's capital structure  
4 at zero cost.

5  
6 **Q.** Does witness Gorman's suggested reconciliation  
7 methodology result in customers receiving a full benefit  
8 of the cost savings?

9  
10 **A.** There actually is no cost savings, just a delay in the  
11 recognition of the expense and when the associated  
12 liability comes due is paid to the government. The  
13 benefit of this delay, however, is fully recognized. In  
14 contrast, witness Gorman's approach would result in a  
15 "double benefit" to customers.

16  
17 **Q.** How so?

18  
19 **A.** Deferred taxes and customer deposits are sources of  
20 capital that are used to support investments across all  
21 of Tampa Electric's assets, just like equity and debt  
22 capital obtained from investors. When an asset is  
23 removed from or not allowed in rate base, witness  
24 Gorman's approach ignores this. Instead, he supports  
25 full recognition of the non-inclusion of the asset in

1 rate base, but ignores the deferred taxes and customer  
2 deposits which support that asset. Under his approach,  
3 customers are not required to pay for the asset and are  
4 beneficiaries of 100 percent of the deferred taxes. In  
5 this sense, there is a "double benefit" to customers.

6

7 **Q.** How did the Commission allocate rate base adjustments in  
8 Gulf Power Company's last rate proceeding?

9

10 **A.** The Commission did it pro rata for Gulf Power Company.  
11 In Order No. PSC-12-0179-FOF-EI, issued on April 3, 2012  
12 in Docket No. 110138-EI, the Commission stated:

13

14 We find that Gulf has reasonably relied on our  
15 previous treatment of ADITs to include in the  
16 capital structure. Additionally, in  
17 reconciling rate base and capital structure,  
18 Gulf and the other parties agree the capital  
19 structure shall be reconciled to rate base pro  
20 rata over all sources of capital. By adjusting  
21 the capital structure on a pro rata basis for  
22 the Crist Units 6 and 7 turbine upgrades,  
23 deferred taxes are increased in proportion to  
24 the percent of deferred taxes in the capital  
25 structure.

1 Q. Has the Commission recently expressed a concern with  
2 double counting deferred income taxes?

3  
4 A. Yes, in its Order No. PSC-10-0153-FOF-EI, issued on March  
5 17, 2010 in Docket Nos. 080677-EI and 090130-EI,  
6 addressing its decision in a recent Florida Power & Light  
7 ("FPL") rate proceeding, the Commission stated:

8  
9 We are concerned that the double counting of  
10 deferred income taxes might result in a  
11 violation of tax normalization rules. Per  
12 IRC§168(i)(9), tax normalization requires any  
13 ratemaking adjustment with respect to a  
14 utility's deferred income tax reserves to be  
15 consistently applied with respect to rate base,  
16 depreciation expense, and income tax expense.  
17 Pursuant to IRC§168(f)(2), the consequence of  
18 violating the normalization method of  
19 accounting is the loss of the ability to claim  
20 accelerated depreciation for income tax  
21 purposes. Such a normalization violation would  
22 result in the loss of the ability to use  
23 accelerated tax methods of depreciation.  
24 Consistent with prior PSC orders, tax  
25 normalization rules, and as discussed in

1 greater detail below, FPL has properly  
2 allocated pro-rata adjustments to all sources  
3 of capital.  
4

5 The Commission went on to give three reasons why it was  
6 making all allocations on a pro rata basis, citing the  
7 need to be consistent with cost recovery clause  
8 treatment, concerns over potential normalization  
9 violations, and a lack of materiality. The Commission  
10 did direct staff to conduct a generic review of its  
11 allocation policy.  
12

13 **Q.** Did such a review take place?  
14

15 **A.** Yes, there was a workshop conducted by staff on May 12,  
16 2010.  
17

18 **Q.** Were there any changes made by the Commission in its  
19 allocation methodology as a result of this workshop?  
20

21 **A.** No, not to my knowledge.  
22

23 **OPERATIONS & MAINTENANCE (O&M) EXPENSES**

24 **Q.** What does witness Kollen recommend in regard to Tampa  
25 Electric's O&M expenses?

1     **A.**   Witness Kollen recommends substantial reductions in Tampa  
2           Electric's projected 2014 O&M expenses by two different  
3           means, a "top-down" approach and a "bottoms-up" approach.  
4           Under his top-down approach, witness Kollen recommends a  
5           disallowance of \$40.898 million.   Under his bottom-up  
6           approach, witness Kollen recommends a disallowance of  
7           \$31.876 million.

8

9     **Q.**   What is the basis for witness Kollen's recommended top-  
10          down disallowance?

11

12    **A.**   Witness Kollen begins with Tampa Electric's 2012 level of  
13          jurisdictional O&M expenses of \$299.546 million and  
14          increases it by a 2-year inflation factor of 4.7 percent  
15          to derive his recommended level of 2014 O&M expenses of  
16          \$313.633 million.  He then compares his recommended level  
17          to Tampa Electric's 2014 forecasted level of O&M expenses  
18          to result in his \$40.898 million recommended  
19          disallowance.

20    **Q.**   Is this approach reasonable and appropriate?

21

22    **A.**   It is neither reasonable nor appropriate.

23

24    **Q.**   Please explain.

25

1     **A.**   Witness Kollen's approach is an overly simplistic  
2           analysis that cannot be relied upon to accurately  
3           establish the amount of O&M expenses necessary to provide  
4           service in 2014 and beyond. He blindly establishes 2012  
5           as a representative year upon which mere inflation  
6           factors can be applied to establish going forward  
7           amounts. He conveniently ignores substantial testimony  
8           by Tampa Electric witnesses that 2012 is not  
9           representative of normal on-going expense levels and the  
10          substantial testimony of Tampa Electric witnesses who  
11          support the needs in the 2014 budget. His approach is  
12          similar to the Commission's O&M Benchmark and applies the  
13          result in a manner never intended. If the Commission  
14          were to accept witness Kollen's approach and the  
15          recommended disallowance resulting there from, the  
16          Commission would be abdicating its responsibility to  
17          establish expense levels reasonably necessary to provide  
18          service on a going forward basis.

19  
20     **Q.**   How is witness Kollen's top-down approach similar to the  
21           Commission's O&M Benchmark?

22  
23     **A.**   Witness Kollen's top-down approach is similar in that it  
24           takes a base year and escalates it to calculate a  
25           benchmark. However, it is also significantly different

1 in both its calculation and, more importantly, in its  
2 application.

3  
4 **Q.** Please explain how it is different in its calculation.

5  
6 **A.** The Commission's O&M Benchmark begins with the level of  
7 O&M expenses for a prior year that have been reviewed as  
8 part of a rate case. It then escalates this level of O&M  
9 expenses by both inflation and customer growth to  
10 determine the benchmark level. The analysis also  
11 calculates a benchmark by functional areas within the  
12 company. In contrast, witness Kollen's approach chooses  
13 2012 as the base year, a non-test year that has not been  
14 determined to be reasonable, necessary and reflective of  
15 on-going needs. He then only applies an inflation factor  
16 and not a factor for customer growth. Neither does his  
17 analysis show amounts by function.

18  
19 **Q.** Please explain how it is different in its application.

20  
21 **A.** The Commission's O&M Benchmark is an analytical tool used  
22 by the Commission to better scrutinize expense levels and  
23 to give the company an opportunity to justify expense  
24 levels which may exceed the benchmark. The Commission  
25 has never used the Benchmark as an absolute limitation on



1 the amount of expense determined to be reasonable and  
2 necessary on a going forward basis. In contrast, witness  
3 Kollen uses his 2012 base year escalated by inflation as  
4 an absolute limitation. His approach effectively denies  
5 Tampa Electric the opportunity to justify the level of  
6 expense it is seeking in the 2014 test year.

7  
8 **Q.** On what basis can a utility company justify expenses  
9 above a benchmark level?

10  
11 **A.** It is the utility company's responsibility to justify  
12 these amounts based on its particular facts and  
13 circumstances. However, such justifications can be based  
14 on a showing that specific expenses are not well gauged  
15 by a general inflation factor or that additional expenses  
16 are reasonably necessary to meet customer expectations or  
17 to meet increased standards and requirements. For  
18 example, certain types of expenses may exceed general  
19 inflation, such as health care costs, diesel fuel for  
20 trucks and other equipment, and certain materials or  
21 components that may be subject to high demand and low  
22 supply. Examples of increased expenses due to increased  
23 requirements would be storm hardening, increased  
24 maintenance needed to meet reliability requirements, and  
25 increased outage activities needed to optimize plant

1 performance. Such expenses should be evaluated for  
2 reasonableness and not summarily rejected if they exceed  
3 a base amount escalated for inflation.

4

5 **Q.** Are there similar flaws in witness Kollen's bottoms-up  
6 approach?

7

8 **A.** Yes, there are. First, it should be observed that  
9 witness Kollen's bottoms-up approach attempts to look at  
10 Tampa Electric's O&M expenses with greater granularity  
11 and the result is a reduced recommended disallowance,  
12 *i.e.*, \$31.876 versus \$40.898 million. This highlights  
13 the fact that witness Kollen's top-down approach cannot  
14 be relied upon to yield meaningful results.  
15 Nevertheless, some of witness Kollen's recommended  
16 disallowances included in his bottoms-up approach contain  
17 the same or similar flawed premise as contained in his  
18 top-down approach.

19

20 **Q.** What is this flawed premise?

21

22 **A.** The flawed premise is that a prior year escalated for  
23 inflation or that an average of a series of prior years  
24 without escalation for inflation should be used as a  
25 limitation on the amount of expenses allowed as

1 reasonable in the 2014 test year. As used in his top-  
2 down approach, witness Kollen escalates Tampa Electric's  
3 2012 distribution O&M expense by inflation to set a  
4 limitation on allowable distribution O&M expense,  
5 resulting in a recommended disallowance of \$5.317  
6 million. Witness Kollen slightly changes his approach  
7 for planned maintenance outage expense. Instead of  
8 escalating 2012 for inflation, he averages the years 2010  
9 - 2012, without escalation for inflation, to calculate  
10 his limitation on allowable planned maintenance outage  
11 expense. This approach results in his recommended  
12 disallowance of \$7.145 million. It is interesting to  
13 note that had witness Kollen continued to use the  
14 approach wherein 2012 is escalated for inflation, his  
15 recommended disallowance for planned maintenance outage  
16 expense would have been approximately \$800,000 lower.

17  
18 **Q.** What is your recommendation for Tampa Electric's  
19 allowable level of O&M expenses?

20  
21 **A.** I do not have a quantified dollar recommendation. My  
22 recommendation is to reject witness Kollen's reliance on  
23 a benchmark type approach to place limitations on what  
24 otherwise may be necessary and reasonable expense levels.  
25 The Commission should continue its practice of using its

1 O&M Benchmark to scrutinize expenses and consider Tampa  
2 Electric's justifications for its 2014 projected expense  
3 levels. The goal is to set 2014 expense levels that are  
4 reasonable and necessary to provide safe, efficient, and  
5 reliable service on a going forward basis.

6  
7 **Q.** What consideration do you believe should be given to the  
8 level of O&M expenses incurred by Tampa Electric in 2011  
9 and 2012?

10  
11 **A.** I think the commission should consider those expense  
12 levels as it evaluates the company's proposed level of  
13 O&M expenses in the 2014 test year, but should keep those  
14 historical years in perspective. Several of the  
15 company's witnesses have explained that the company's  
16 revenues for 2011 and 2012 were much lower than  
17 anticipated due to weather, economic conditions and  
18 changes in customer usage patterns. The company  
19 responded to these unexpected changes by taking  
20 extraordinary steps to reduce O&M expenses to maintain  
21 the financial health of the company. I would encourage  
22 the commission to evaluate the company's levels of O&M  
23 spending in light of what was happening to the company in  
24 those years and to refrain from adjusting test year O&M  
25 expenses based on comparisons to 2011 and 2012 or

1 averages using those years. The commission would likely  
2 be reluctant to use years with higher than normal O&M  
3 expenses as a touch point for evaluating test year  
4 expenses, and it should be equally reluctant to evaluate  
5 test year expenses against years when spending was cut to  
6 austere "just get by" levels. The commission's goal  
7 should be to approve a sustainable level of O&M spending  
8 that will allow the company to provide reasonable and  
9 reliable service to its customers. Holding the company  
10 to unusually low levels achieved during extreme  
11 conditions in some sense amounts to "no good deed going  
12 unpunished" and is not in the best long run interests of  
13 the customers.

14  
15 **EQUITY RATIO**

16 **Q.** Does witness Kollen make a recommendation to incentivize  
17 Tampa Electric to reduce its equity ratio?

18  
19 **A.** Yes, witness Kollen presents two options. His first  
20 option is to reduce the equity ratio in this case and to  
21 allow 25 percent of the revenue requirement reduction to  
22 be added to Tampa Electric's Performance Sharing Plan  
23 ("PSP") incentive compensation expense. His second  
24 option is to have Tampa Electric reduce its equity ratio  
25 in its next rate case, with the understanding that the

1 Commission would allow a pro forma adjustment in the next  
2 case to increase PSP incentive compensation expense by 25  
3 percent of the lower revenue requirement.

4

5 **Q.** Should the Commission accept either of these options?

6

7 **A.** No, the Commission should reject both options. Both are  
8 based on a premise that is unsubstantiated and both  
9 constitute bad regulatory policy.

10

11 **Q.** How is the premise for these options unsubstantiated?

12

13 **A.** Witness Kollen's premise is that Tampa Electric's current  
14 equity ratio is excessive and that a lower equity ratio  
15 would reduce Tampa Electric's revenue requirement. Other  
16 than referencing witness Baudino's position that Tampa  
17 Electric's equity ratio is higher than witness Baudino's  
18 comparative group, witness Kollen does not show that  
19 Tampa Electric's equity ratio is excessive. The  
20 appropriateness of Tampa Electric's equity ratio should  
21 be evaluated on Tampa Electric's specific facts and  
22 circumstances, such as its overall risk profile and its  
23 ability to obtain capital on reasonable terms. It is  
24 also unsubstantiated that a lower equity ratio would  
25 reduce Tampa Electric's revenue requirement. It is

1 mathematically true that, assuming everything else is  
2 equal, a lower equity ratio lowers revenue requirements.  
3 However, making such a naïve assumption is not indicative  
4 of the real world where revenue requirements are  
5 intertwined with a myriad of different factors moving the  
6 calculation of revenue requirements in opposite  
7 directions. The goal should be a balanced equity ratio  
8 that optimizes risk mitigation and revenue requirements.  
9 A company's equity ratio is a financial metric closely  
10 watched and evaluated by financial analysts. As such, it  
11 should not be changed unless there is a compelling reason  
12 to do so.

13  
14 **Q.** How do witness Kollen's options constitute bad regulatory  
15 policy?

16  
17 **A.** Both of witness Kollen's options break from the principle  
18 that incentives should be implemented to encourage  
19 actions that produce mutual benefit. Incentives should  
20 not be used to incent actions that do not have a clear  
21 mutual benefit or encourage conflicting actions. His  
22 options place Tampa Electric's management in an untenable  
23 position of choosing between an equity ratio that it  
24 believes is appropriate and financial gain for its  
25 managers and employees. Furthermore, Tampa Electric's

1 overall compensation program, including PSP, should be  
2 set at a level to attract, retain, and motivate  
3 employees. To achieve this goal, Tampa Electric targets  
4 its overall compensation at the market median. Allowing  
5 additional PSP compensation as an incentive could result  
6 in excessive compensation.

7  
8 **AMORTIZATION OF SOFTWARE**

9 **Q.** What does witness Pous recommend for the amortization of  
10 software costs?

11  
12 **A.** Witness Pous is recommending two separate adjustments.  
13 First, he recommends that Tampa Electric's 10 year  
14 amortization period be increased to 15 years. Second, he  
15 recommends that the historical accumulated amortization  
16 reserve be restated (increased) to reflect a 5 year  
17 amortization. Witness Pous' recommendations are  
18 inconsistent with goals of regulation and are internally  
19 inconsistent in rationale and application. The only way  
20 they are consistent is that they both inappropriately  
21 reduce Tampa Electric's revenue requirements in the  
22 current rate case.

23 **Q.** How are witness Pous' recommendations inconsistent with  
24 goals of regulation?

25



1     **A.**   An important goal of regulation is to objectively set  
2           amortization rates which best match the amortization  
3           period with the expected life of the intangible asset  
4           being amortized.       This should be done without  
5           consideration of whether a change in amortization would  
6           affect customer rates (either up or down) in a rate case.  
7           Witness Pous' recommendations to restate the amortization  
8           reserve and to increase the amortization period going  
9           forward appear to be driven by the inappropriate goal of  
10          minimizing revenue requirements in the current rate case.

11  
12          Another goal of regulation is to not only objectively  
13          match the amortization period of an intangible asset with  
14          its expected life, but also have the annual amortization  
15          expense be as consistent and smooth as possible.  
16          Specifically in regard to Tampa Electric's Enterprise  
17          Resource Planning ("ERP") software, witness Pous'  
18          recommendation would have the amortization heavily skewed  
19          to the early years of the software's deployment and then  
20          greatly diminished over the remaining years of his  
21          recommended 15 year life.  In contrast, Tampa Electric's  
22          proposed amortization would be 10 percent per year over  
23          the asset's 10 year expected life.  This is graphically  
24          depicted for a hypothetical in my Document 3 of my  
25          exhibit.

1    **Q.**    Do you have a position on the appropriateness of a 10  
2            year amortization versus a 15 year amortization?

3  
4    **A.**    No, I have no position on which amortization period is  
5            more appropriate.  As I stated earlier, the amortization  
6            period should match the expected life of the intangible  
7            asset as closely as possible.  However, I do have two  
8            observations.  First, regardless of whether the expected  
9            life is 10 years or 15 years, it is obvious that it is  
10           not expected to be 5 years and that Tampa Electric was  
11           justified to use a longer than 5 year period to amortize  
12           the ERP software when it was first deployed.  Second, if  
13           a 15 year amortization period is used and the actual life  
14           is 10, there will be a substantial unrecovered cost at  
15           the end of the asset's life.  This cost would then have  
16           to be recovered by some means, effectively pushing these  
17           costs farther out into the future.

18

19    **INCENTIVE COMPENSATION**

20    **Q.**    Do witnesses Kollen and Schultz take issue with Tampa  
21            Electric's incentive compensation programs?

22

23    **A.**    Yes, they both address Tampa Electric's PSP and stock  
24            compensation programs and they recommend substantial  
25            disallowances for each.

1    **Q.**    What is the nature of their recommended disallowances for  
2           Tampa Electric's PSP?

3  
4    **A.**    Witness Kollen makes a "bottoms-up" adjustment to Tampa  
5           Electric's 2014 O&M expenses to disallow \$5.034 million  
6           of Tampa Electric's PSP expense.    The basis for his  
7           adjustment ignores the operational part of Tampa  
8           Electric's PSP and would limit PSP expense to only the  
9           two percent attributable to safety related goals.    He  
10          once again uses 2012 as his base year and observes that  
11          only safety related payouts were made in 2012.

12  
13          Witness Schultz takes a similar approach and limits PSP  
14          expense to the two percent attributable to safety related  
15          goals.    He recommends a disallowance of \$5.987 million  
16          attributable to Tampa Electric, in effect allowing only  
17          two percent of his recommended payroll expense as PSP.  
18          He then further disallows \$1,837 of PSP allocated from  
19          TECO Energy, for a total disallowance of \$7.818 million  
20          (jurisdictional).    Witness Schultz also offers an  
21          alternative recommendation.    In his alternative, he  
22          eliminates all of the PSP expense attributable to  
23          operational goals and then recommends that the remainder  
24          be shared equally between stockholders and customers.  
25          This results in a total recommended disallowance of

1           \$8.074 (jurisdictional). He further observes that no  
2           operational PSP payments were made in the years 2011 and  
3           2012.

4  
5           **Q.** What is the nature of their recommended disallowances of  
6           Tampa Electric's stock compensation expenses?

7  
8           **A.** Both witness Kollen and witness Schultz eliminate all of  
9           Tampa Electric's 2014 projected stock compensation  
10          expenses. Witness Kollen recommends a disallowance of  
11          \$5.084 million. Witness Schultz also eliminates stock  
12          compensation expenses allocated from Tampa Electric  
13          Energy, to result in his total recommended disallowance  
14          of \$9.715 million (jurisdictional).

15  
16          **Q.** Are there any common themes in the positions of witnesses  
17          Kollen and Schultz in regard to Tampa Electric's PSP and  
18          stock compensation programs?

19  
20          **A.** Yes, there are two major ones. First, both witness  
21          Kollen and witness Schultz put great emphasis on their  
22          observations that no operational related amounts were  
23          paid under PSP for the years 2011 and 2012. They use  
24          this as a rationale to disallow operational related PSP  
25          expense in the 2014 test year. And second, both witness

1 Kollen and witness Schultz believe that financial  
2 incentives benefit stockholder(s) to the detriment of  
3 customers. They conclude that the cost of such  
4 incentives should be borne by stockholder(s).

5  
6 **Q.** Do you agree with their rationale to disallow operational  
7 related PSP expense because no such payments were made in  
8 the years 2011 and 2012?

9  
10 **A.** No, I do not. The real issue is whether the operational  
11 goals of the PSP and the projected payouts are reasonable  
12 and part of a broader compensation plan designed to  
13 adequately compensate and motivate employees. According  
14 to Tampa Electric witness Register, that is exactly what  
15 the operational goals and the associated payouts do. It  
16 is possible and perhaps likely that the years 2011 and  
17 2012 are not good base years in which to conclude that  
18 operational PSP expense levels are not needed in 2014 and  
19 beyond. It is clear from the testimony of other Tampa  
20 Electric witnesses that the years 2011 and 2012 were in  
21 the midst of the Great Recession in which Tampa Electric  
22 was experiencing a dramatic decrease in expected  
23 revenues. This caused Tampa Electric management to  
24 reevaluate spending priorities and also caused many PSP  
25 goals to be unmet. This does not mean that the goals and

1 the expected PSP expenses are unreasonable for 2014 and  
2 beyond. This simply recognizes that under an at-risk  
3 performance pay plan, some years will see actual payouts  
4 less than budgeted and in some years greater than  
5 budgeted. It is the nature of employees having part of  
6 their compensation at risk.

7  
8 **Q.** Do you agree with witnesses Kollen and Schultz that  
9 financial incentives benefit stockholder(s) to the  
10 detriment of customers?

11  
12 **A.** No, I do not. Financial goals also benefit customers.  
13 Regulated utilities are profit making entities  
14 (hopefully) and must make a reasonable profit to be  
15 sustainable and to access capital when needed and on  
16 reasonable terms. This is the means by which customers  
17 receive the service that they expect and deserve. A  
18 utility earning a reasonable profit is beneficial for  
19 both its shareholders and its customers. Therefore,  
20 financial goals used to establish compensation levels are  
21 also beneficial to customers.

22 **Q.** Can you give specific examples of how financial goals  
23 benefit customers?

24  
25 **A.** Yes, I can. Return on equity ("ROE") is a fundamental

1 measure of financial performance. It represents the  
2 earnings (revenues less expenses) as a percentage of  
3 equity investment. It can be increased (or its erosion  
4 diminished over time) in a number of ways. First,  
5 revenues can be increased by serving more customers with  
6 the same amount of expenses and investment. Second,  
7 expenses can be reduced by serving existing and future  
8 customers more efficiently. Third, assets can be  
9 utilized more efficiently so that the denominator in the  
10 equation (equity capital) is minimized for each dollar of  
11 income that is generated. Each of these scenarios (or a  
12 combination of them) will increase the ROE and provide  
13 added value to customers by increasing the efficiency of  
14 utility operations. This is particularly meaningful for  
15 regulated utilities which must keep rates fixed in  
16 between rate cases.

17  
18 **Q.** Is it appropriate to allow recovery of at risk  
19 compensation based on the achievement of financial goals?  
20

21 **A.** Yes, it is. Apparently witness Kollen also agrees with  
22 this concept. In his recommendation to achieve a  
23 reduction in Tampa Electric's equity ratio, witness  
24 Kollen recommends the awarding of greater PSP payments.  
25 Of course, as I described earlier, the financial goal of

1           reducing Tampa Electric's equity ratio is misguided and  
2           should not be used to award PSP payments.

3

4   **Q.**   Should the Commission require a sharing of incentive  
5           compensation between customers and stockholder(s) as  
6           suggested by witness Schultz in his alternative position?

7

8   **A.**   No.    The suggestion to share the cost of incentive  
9           compensation is misplaced and shifts the true focus of  
10          determining the level of compensation expense (or any  
11          expense) that should be recovered in rates.    A  
12          fundamental tenet of sound regulatory policy is to  
13          provide recovery of all reasonable and necessary costs  
14          incurred to provide service to customers.    And a basic  
15          principle of ratemaking is to include all such costs as  
16          test year expenses in calculating a regulated company's  
17          net operating income.    Only if the Commission finds that  
18          the expenses in question are unreasonable or unnecessary  
19          should they be disallowed in calculating the company's  
20          revenue requirement.

21

22          Another fundamental tenet of sound regulatory policy is  
23          to encourage regulated utilities to be efficient and  
24          provide high quality service to their customers over the  
25          long term.    Sacrificing efficiency or quality of service



1 in the long run to achieve temporary rate reductions is  
2 not in the customers' interest. All regulatory decisions  
3 have consequences and good regulatory policy results when  
4 these consequences are adequately considered. The  
5 recommendations of witnesses Kollen and Schultz violate  
6 both of these tenets of sound regulatory policy.

7  
8 **Q.** Please explain how their recommendations violate the  
9 tenet of recovery of reasonable and necessary costs.

10  
11 **A.** Neither witness Kollen nor witness Schultz has presented  
12 an analysis of the employment market to determine what  
13 amount of compensation is reasonable and necessary to  
14 attract the workforce needed to efficiently and reliably  
15 run an electric utility. This is in contrast to the  
16 testimony of Tampa Electric's witness Register who  
17 explains that the overall compensation is reasonable,  
18 that it is necessary to attract and retain a qualified  
19 workforce, and that it is at or near the median of  
20 employee compensation paid by other regulated utilities.

21  
22 Witness Kollen's and witness Schultz's recommendations  
23 are further flawed because they make no analysis of the  
24 reasonableness of the net amount of compensation that  
25 remains after operational PSP and stock compensation are

1 eliminated. They have not provided any evidence that  
2 shows the level of compensation that remains will ensure  
3 that Tampa Electric is competitive in the market in terms  
4 of its ability to attract and retain qualified employees.  
5

6 **Q.** Has the Commission addressed incentive compensation for  
7 other Florida utilities?  
8

9 **A.** Yes. A prior Florida Power Corporation rate case also  
10 provided for cost recovery of incentive compensation  
11 finding that: "Incentive plans that are tied to  
12 achievement of corporate goals are appropriate and  
13 provide an incentive to control costs." Order No. PSC-  
14 92-1197-FOF-EI, issued October 22, 1992, in Docket No.  
15 910890-EI, In Re: Petition for a rate increase by Florida  
16 Power Corporation. And in a Tampa Electric's last rate  
17 case, the Commission found that Tampa Electric's total  
18 compensation package, including the component contingent  
19 on achieving incentive goals, was set near the median  
20 level of benchmarked compensation and allowed recovery of  
21 incentive compensation that was directly tied to results  
22 of Tampa Electric:  
23

24 Tampa Electric's Success Sharing Plan has been  
25 in place since 1990 and its appropriateness was

1 approved in the company's last rate case in  
2 1992. Lowering or eliminating the incentive  
3 compensation would mean Tampa Electric  
4 employees would be compensated below the  
5 employees at other Companies, which would  
6 adversely affect the company's ability to  
7 compete in attracting and retaining a high  
8 quality and skilled workforce. We therefore  
9 decline to do so.

10 Order No. PSC-09-0283-FOF-EI, issued April 30, 2009, in  
11 Docket No. 080317-EI, In re: Petition for a rate increase  
12 by Tampa Electric Company.

13

14 The Commission has also approved incentive compensation  
15 in three prior rate cases for Gulf, the most recent of  
16 which resulted in an order issued in April of last year.  
17 Order No. PSC-12-0179-FOF-EI, issued April 3, 2012, in  
18 Docket No. 110138-EI, In re: Petition for increase in  
19 rates by Gulf Power Company. The Commission's finding in  
20 the 2001 Gulf rate case contains language similar to the  
21 Tampa Electric case:

22

23 To only receive a base salary would mean Gulf  
24 employees would be compensated at a lower level  
25 than employees at other companies. Therefore,

1 an incentive pay plan is necessary for Gulf  
2 salaries to be competitive in the market.  
3 Another benefit of the plan is that 25 percent  
4 of an individual employee's salary must be re-  
5 earned each year. Therefore, each employee must  
6 excel to achieve a higher salary. When  
7 employees excel, we believe that the customers  
8 benefit from a higher quality of service.

9 Order No. PSC-02-0787-FOF-EI, in Docket 010949-EI, In re:  
10 Request for rate increase by Gulf Power Company, (page 45  
11 of order).

12  
13 **Q.** Are there any Florida Court decisions relevant to the  
14 issue of Commission disallowance of compensation  
15 expenses?

16  
17 **A.** Yes, two cases are instructive in this regard and both  
18 dealt with the Commission's disallowance of executive  
19 compensation.

20  
21 In Florida Bridge Company v. Bevis, the Florida Supreme  
22 Court reversed a decision of the Commission disallowing a  
23 portion of the company president's salary. The Court  
24 observed:

25

1           Indeed, the Commission has made no attempt to  
2           determine whether the president's compensation  
3           is excessive in view of the services he  
4           provides. The arbitrary ratio by which the  
5           Commission reduced the salary and expense  
6           account[,] the ratio of days physically absent  
7           from the home office to the total number of  
8           workdays in the test year[,] has no support in  
9           logic, precedent, or policy.

10          363 So. 2d 799, 800-01 (Fla. 1978)

11  
12          The Court found the Commission's action "was arbitrary  
13          and constitutes a substantial departure from the  
14          essential requirements of law." Id.

15  
16          The First District Court of Appeal reached a similar  
17          conclusion in *Sunshine Utilities of Central Florida, Inc.*  
18          *v. Florida Public Service Commission*, in finding fault  
19          with the Commission's disallowance of a portion of the  
20          company president's salary:

21  
22                 In determining whether an executive's salary is  
23                 reasonable compared to salaries paid to other  
24                 company executives, the comparison must, at a  
25                 minimum, be based on a showing of similar

1           duties, activities, and responsibilities in the  
2           person receiving the salary.

3           624 So. 2d 306, 311 (Fla. 1st DCA 1993)

4

5   **Q.**   How are these cases related to the disallowance of  
6           incentive compensation recommended by witnesses Kollen  
7           and Schultz?

8

9   **A.**   It relates to the point I made earlier in my testimony  
10           regarding their failure to determine whether overall  
11           compensation expense is reasonable and necessary. The  
12           Florida Supreme Court and the First District Court of  
13           Appeal reversed the Commission's decision because the  
14           basis for the disallowances did not address the  
15           reasonableness of the salaries as compared to the market.

16

17           Witness Kollen's and witness Schultz's analyses are  
18           similarly flawed because they have made no attempt to  
19           compare the total compensation paid to Tampa Electric  
20           employees to the market for similar services, duties,  
21           activities and responsibilities. Instead they recommend  
22           a portion be disallowed based on how it is paid: Because  
23           it is performance-based variable pay, rather than base  
24           salary, it is subject to disallowance notwithstanding  
25           whether the total amount of compensation is reasonable.

1           The focus of any disallowance should be how much is paid,  
2           not how it is paid.

3  
4           **Q.**   How do witness Kollen's and witness Schultz's  
5           recommendations fail to encourage efficiency or maintain  
6           or improve the quality of service?

7  
8           **A.**   Their recommendations would have longer term consequences  
9           that could affect efficiency and service, and their  
10          recommendations take away a valuable managerial tool that  
11          is effective in increasing efficiency and maintaining or  
12          improving the quality of service provided to customers.

13  
14          **Q.**   What do you mean by "takes away a managerial tool"?

15  
16          **A.**   Accepting witness Kollen's and witness Schultz's  
17          recommendations would, by necessity, cause Tampa Electric  
18          to rethink its long standing approach to employee  
19          compensation.  If a significant amount of otherwise valid  
20          and reasonable costs are disallowed simply because of the  
21          method by which they are paid, Tampa Electric would be  
22          justified in implementing a different pay structure.  
23          While accepting their recommendations would deny Tampa  
24          Electric the opportunity to recover necessary costs  
25          currently, adopting a different compensation plan with no

1 at-risk pay and a greater reliance on base pay would  
2 presumably eliminate the issue in future rate  
3 proceedings. But by moving more salary to base pay,  
4 employees don't have to re-earn that pay by meeting goals  
5 that typically include efficiency and service objectives.  
6 A compensation structure that pays employees regardless  
7 of performance diminishes management's leverage to  
8 motivate and focus employees on appropriate goals. In  
9 essence, the Commission would be substituting its  
10 judgment for that of Tampa Electric's management as to  
11 how best to motivate and compensate its employees.  
12 Consequently, the incentive for Tampa Electric's  
13 employees to be motivated and productive would be  
14 diminished.

15  
16 **Q.** Is it your position that Commission precedent supports  
17 the recovery of all of the non-executive performance-  
18 based variable pay? And why has this been the precedent  
19 in Florida?

20  
21 **A.** While the Commission reviews each utility's compensation  
22 costs on the facts unique to that utility, the Commission  
23 has consistently recognized that incentive  
24 compensation/performance-based variable pay, is an  
25 accepted and desirable way to achieve corporate goals and



1 to control costs for the benefit of customers. The  
2 Commission has also determined that incentive  
3 compensation is an appropriate component to include  
4 within overall compensation to judge whether the overall  
5 compensation paid to employees is reasonable.

6  
7 I believe there are a number of reasons for this  
8 precedent. First, the Commission's policy is consistent  
9 with the basic tenets of sound regulatory policy that I  
10 described earlier. Second, the Commission has recognized  
11 that having good management at utilities is essential for  
12 regulators to achieve their mission of having safe,  
13 reliable and reasonably-priced service delivered to  
14 customers. The Commission has further understood that  
15 management needs sufficient tools and incentives to  
16 achieve these goals and that regulators should not  
17 attempt to "micro-manage" their regulated utilities. And  
18 third, the Commission has appropriately recognized that  
19 not all issues in a rate proceeding are a simple  
20 situation of "us vs. them", where every issue has a clear  
21 winner and a clear loser. While at-risk compensation has  
22 been and is currently being characterized as an "us vs.  
23 them" issue, in reality it is not. Incorporating  
24 performance-based variable pay as part of an overall  
25 compensation plan is a good example of a "win-win"

1 situation.

2

3 **Q.** What do you mean by a "win-win" situation?

4

5 **A.** Including performance-based variable pay as part of an  
6 overall compensation plan enables all stakeholders to  
7 win. Shareholders get to invest in a company with  
8 employees motivated to achieve appropriate corporate  
9 goals. Management gets to apply compensation tools that  
10 they think are best to motivate and fairly compensate  
11 employees. And most importantly, customers get to pay no  
12 more than a reasonable amount in their rates but get a  
13 work force that is motivated to be efficient, to reduce  
14 costs where possible and to maintain a high level of safe  
15 and reliable service.

16

17 **Q.** Witness Deason, do you understand that witness Schultz is  
18 not recommending that Tampa Electric not pay the entire  
19 non-executive performance-based variable pay; he is  
20 simply recommending that a portion not be recovered in  
21 rates?

22

23 **A.** Yes, I understand his recommendation. However,  
24 disallowing a reasonable and necessary business expense,  
25 or requiring the company to share part of the expense, is

1 nothing more than a backdoor approach to reducing the  
2 allowed ROE. Funds that should go to shareholders as a  
3 fair return on investment instead would be diverted to  
4 cover costs that should otherwise be recovered in rates.  
5

6 **DIRECTORS AND OFFICERS LIABILITY INSURANCE**

7 **Q.** What is the recommendation made by witness Schultz  
8 regarding Directors and Officers Liability ("DOL")  
9 Insurance?  
10

11 **A.** Witness Schultz is recommending the disallowance of  
12 \$398,974 (jurisdictional) or 50 percent of the cost of  
13 DOL insurance premiums.  
14

15 **Q.** Do you agree with this recommendation?  
16

17 **A.** No, I do not.  
18

19 **Q.** Why not?  
20

21 **A.** I disagree for reasons similar to the points I made with  
22 regard to at-risk incentive compensation. The amount  
23 requested by Tampa Electric for DOL insurance is  
24 reasonable and is an ordinary and necessary cost of doing  
25 business, and as such the entire amount should be

1 recovered in rates.

2

3 **Q.** Why are DOL insurance premiums a necessary and reasonable  
4 cost of doing business?

5

6 **A.** DOL insurance is necessary to attract and retain  
7 knowledgeable, experienced and capable directors and  
8 officers. DOL insurance is purchased for the purpose of  
9 protecting the company and its directors and officers  
10 from normal risks associated with managing the company.  
11 Qualified and capable directors and officers would be  
12 reluctant to assume the responsibilities of managing a  
13 company without the assurance that their personal assets  
14 would be shielded from legal expenses, settlements or  
15 judgments arising from lawsuits. The assets of the  
16 company are likewise protected from lawsuits that could  
17 divert capital to cover any losses. Increasing scrutiny  
18 of corporate governance and the related risk exposure of  
19 directors and officers make DOL insurance a necessity in  
20 maintaining a high quality board and senior management  
21 team. Adequate liability coverage gives directors and  
22 officers the level of comfort necessary to enable them to  
23 make forward-looking decisions that will provide  
24 operational and cost-efficiency benefits for customers.

25

1    **Q.**    Has the Commission previously addressed the need for DOL  
2           insurance?

3  
4    **A.**    Yes.    The Commission's rationale in the People's Gas case  
5           and in the last Tampa Electric rate case are instructive  
6           regarding the need for DOL insurance:

7  
8                   DOL Insurance has become a necessary part of  
9                   conducting business for any company or  
10                  organization and it would be difficult for  
11                  companies to attract and retain competent  
12                  directors and officers without it.  Moreover,  
13                  ratepayers receive benefits from being part of  
14                  a large public company, including, among other  
15                  things, access to capital.  In addition, DOL  
16                  Insurance is necessary to protect the  
17                  ratepayers from allegations of corporate  
18                  misdeeds.

19                 Order No. PSC-09-0411-FOF-GU, page 37 issued June 9,  
20                 2009, in Docket No. 080318-GU, In re:  Petition for rate  
21                 increase by People's Gas System.

22  
23                   We find that DOL insurance is a part of doing  
24                   business for a publicly-owned company.  It is  
25                   necessary to attract and retain competent

1 directors and officers. Corporate surveys  
2 indicate that virtually all public entities  
3 maintain DOL insurance, including investor-  
4 owned electric utilities.

5 Order No. PSC-09-0283-FOF-EI, page 64 issued April 30,  
6 2009, in Docket No. 080317-EI, In re: Petition for rate  
7 increase by Tampa Electric company.

8

9 **Q.** The Peoples Gas decision references benefits to  
10 ratepayers from a large publicly traded company. What is  
11 the significance of this finding?

12

13 **A.** This finding correctly observes that there are benefits  
14 to customers by virtue of a company being publicly  
15 traded. Publicly traded companies have reporting and  
16 corporate governance responsibilities and have access to  
17 capital from publicly traded markets. This affords  
18 protections and access to capital on reasonable terms  
19 (assuming the company's credit metrics are sufficient),  
20 which benefits customers. However, being a publicly  
21 traded company requires an objective and knowledgeable  
22 board of directors. Sufficient DOL insurance is a  
23 concomitant necessity for a publicly traded company.

24

25 **Q.** Does Witness Schultz claim DOL insurance is not a

1           necessary and reasonable expense?

2

3     **A.**   No, not directly.  He characterizes the customer benefits  
4           from DOL insurance as being "subjective" and that DOL  
5           insurance primarily benefits shareholders.

6

7     **Q.**    Do you agree with his characterization?

8

9     **A.**    No, I do not.  DOL insurance is not designed to benefit  
10          shareholders.  DOL insurance is designed to protect the  
11          officers and directors of the corporation from lawsuits  
12          alleging harm from decisions of the officers and  
13          directors acting in their official capacity.  This is an  
14          important distinction for two reasons.  First, without  
15          adequate DOL insurance, any corporation would find it  
16          difficult to attract the best qualified individuals to  
17          serve as officers and directors.  Second, and perhaps  
18          more importantly, it allows officers and directors to  
19          make decisions based on their best judgment and not on  
20          the goal of minimizing exposure to potential lawsuits.  
21          And this second reason is especially applicable to  
22          officers and directors of regulated utilities.

23

24     **Q.**    Why is this second reason especially applicable to  
25          officers and directors of regulated utilities?

1 **A.** A regulated utility is in a relatively unique position as  
2 compared to typical for-profit companies. To be  
3 successful, a regulated utility must meet all of its  
4 obligations required by virtue of being a state-  
5 sanctioned regulated monopoly and must fulfill its  
6 commitments to all stakeholders, including its vendors,  
7 employees, creditors, stockholders, customers and  
8 regulators. Therefore, truly effective directors and  
9 officers must feel free to exercise their best  
10 independent judgment to balance all of those sometimes  
11 competing interests, without fear of lawsuits threatening  
12 their personal assets. It is both good public policy and  
13 good regulatory policy to encourage such informed,  
14 objective decision making that is enabled to a great  
15 extent by DOL insurance.

16

17 **Q.** Why is it good regulatory policy to encourage DOL  
18 insurance?

19

20 **A.** It is good regulatory policy to encourage DOL insurance  
21 to enable officers and directors to engage in thoughtful,  
22 objective decision making that carefully weighs the  
23 outcomes and resulting impacts on all stakeholders.

24 **Q.** Is there a real-world example of this?

25



1     **A.**    Yes, perhaps the best example of this is the Commission's  
2           policy of encouraging settlements among the parties on  
3           matters in dispute.  The best settlements are those where  
4           all parties engage in meaningful discussion and agree on  
5           sometimes significant concessions.  When these  
6           concessions are believed to be in the best interest of a  
7           regulated utility and its stakeholders, the officers and  
8           directors should feel free to exercise this judgment,  
9           without the fear of a lawsuit alleging the concessions  
10          were too great.

11  
12     **Q.**    In response to a previous question, you contrasted a  
13           regulated utility with a typical for-profit company.  Are  
14           for-profit companies the only entities that find it  
15           necessary and appropriate to purchase DOL insurance?  
16

17     **A.**    No, many non-profit entities purchase DOL insurance for  
18           the same reasons, i.e., to enable them to have qualified  
19           officers and directors and to enable those officers and  
20           directors to engage in objective decision making.  So  
21           entities that do not even have stockholders also find it  
22           necessary and appropriate to have DOL insurance.  This  
23           fact is another reason why I disagree with witness  
24           Schultz's characterization that DOL insurance is  
25           primarily to benefit shareholders.

1   **Q.**   What would be the result of accepting witness Schultz's  
2           recommendation to disallow half of the cost of Tampa  
3           Electric's DOL insurance?

4  
5   **A.**   Witness Schultz characterizes his recommendation as a  
6           sharing of costs based on who he believes benefits. As I  
7           just described, I believe his opinion on who benefits is  
8           incorrect.       Nevertheless, the true effect of his  
9           recommendation is to disallow one-half of the cost of  
10          Tampa Electric's DOL insurance. This is tantamount to  
11          saying that one-half of the cost is unnecessary and  
12          imprudently incurred. If this is not the effective  
13          result, his recommendation violates one of the most basic  
14          tenets of regulatory theory, i.e., that all necessary and  
15          prudent costs should be allowed to be recovered in rates.

16  
17   **Q.**   From a policy perspective, what would be the effective  
18          outcome of his recommendation?

19  
20   **A.**   His recommendation would trigger three potential  
21          outcomes, none of which is desirable for a regulated  
22          utility and its customers. First, the company could  
23          simply decide to not have DOL insurance. This would  
24          result in the extremely undesirable consequences of which  
25          I earlier spoke. Second, the company could decide to not

1 have DOL insurance and pay its officers and directors  
2 more to make-up for the greater risk exposure.  
3 Presumably the increased costs would then not be shared  
4 because they clearly would be prudent and necessary to  
5 attract and retain directors and officers and pay them a  
6 market level of compensation. And third, the company  
7 could retain its DOL insurance and not recover one-half  
8 of the cost of doing so.

9

10 **Q.** What would be the bottom-line impact of the third  
11 potential outcome?

12

13 **A.** Disallowing a reasonable and necessary business expense,  
14 or requiring the company to share part of the expense, is  
15 nothing more than another backdoor approach to reducing  
16 the allowed ROE. Funds that should go to shareholders as  
17 a fair return on investment instead would be diverted to  
18 cover costs that should otherwise be recovered in rates.

19

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

21

22 **A.** Yes, it does.

23

24

25

1           **CHAIRMAN BRISÉ:** Okay. I'm trying to see  
2 if there's anything else. Staff, are we missing  
3 anything?

4           **MS. BARRERA:** No, Commissioner.

5           **CHAIRMAN BRISÉ:** All right. Thank you  
6 very much. So with that in mind -- Ms. Christensen?  
7 Sorry.

8           **MS. CHRISTENSEN:** And just one point of  
9 clarification. When we reconvene on September the  
10 11th to reconsider the settlement, we're not  
11 required to bring our witnesses for that day. And  
12 if the Commission were to reschedule a hearing for  
13 some future date, then you'd just let us know when  
14 we would need to bring our witnesses at that time?

15           **CHAIRMAN BRISÉ:** That is correct.

16           **MS. CHRISTENSEN:** Thank you.

17           **CHAIRMAN BRISÉ:** When we, when we  
18 reconvene on Wednesday the 11th we are taking up the  
19 settlement. And at that point if there's a decision  
20 or whatever there is, we will provide further such  
21 instruction at that point.

22           Ms. Purdy.

23           **MS. PURDY:** Yes. Thank you, Mr. Chairman.

24           So just to be clear then, the earliest the  
25 hearing could start in the event the settlement is

1 rejected would be presumably the 12th, just for  
2 scheduling purposes?

3 **CHAIRMAN BRISÉ:** Yes, ma'am.

4 **MS. PURDY:** If it's appropriate at this  
5 time, similar to what HUA filed last week, I guess  
6 if it's appropriate, I'd like to make an oral motion  
7 to be excused on Wednesday just for purposes of HUA.  
8 Again, HUA strongly supports the settlement and we  
9 thank the Commission for granting the motion for  
10 continuance today.

11 Mr. Moyle has kindly volunteered to speak  
12 on our behalf on Wednesday, but for our purposes it  
13 would be more efficient if we were allowed to be  
14 excused.

15 **CHAIRMAN BRISÉ:** Sure. I don't, I don't  
16 have any issue with that. That's, that's your call  
17 to make. Okay? So you, you will be excused on  
18 Wednesday.

19 **MS. PURDY:** Thank you very much.

20 **CHAIRMAN BRISÉ:** Or HUA will be excused on  
21 Wednesday.

22 **MS. PURDY:** Thank you.

23 **CHAIRMAN BRISÉ:** All right. I don't think  
24 there's anything further. I see Ms. Barrera.

25 **MS. BARRERA:** Commissioners, just a point

1 of clarification. TECO offered to bring certain  
2 personnel to explain the settlement on Wednesday to  
3 Commissioners, and we will discuss it later as to  
4 who they will be bringing.

5 **CHAIRMAN BRISÉ:** Sure. Thank you. As  
6 always when we discuss a settlement, we always like  
7 to have the appropriate people here so that the  
8 answer, the questions can be answered so that we can  
9 be fully informed as to whether we're going to take  
10 a decision at that point or, or later on in time.

11 So we will reconvene Wednesday morning at  
12 9:30, and at that point we will take up the  
13 settlement and stipulation.

14 **MR. BEASLEY:** Thank you, Commissioners.

15 **MR. MOYLE:** Thank you.

16 **CHAIRMAN BRISÉ:** Okay. With that, we  
17 stand adjourned.

18 (Proceeding adjourned at 10:01 a.m.)  
19  
20  
21  
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1 STATE OF FLORIDA )  
2 COUNTY OF LEON )

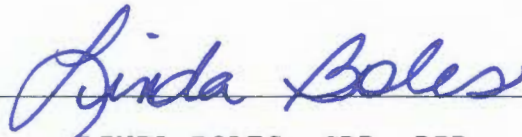
CERTIFICATE OF REPORTER

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4 I, LINDA BOLES, CRR, RPR, Official Commission  
5 Reporter, do hereby certify that the foregoing  
6 proceeding was heard at the time and place herein  
7 stated.

8 IT IS FURTHER CERTIFIED that I stenographically  
9 reported the said proceedings; that the same has been  
10 transcribed under my direct supervision; and that this  
11 transcript constitutes a true transcription of my notes  
12 of said proceedings.

13 I FURTHER CERTIFY that I am not a relative,  
14 employee, attorney or counsel of any of the parties,  
15 nor am I a relative or employee of any of the parties'  
16 attorney or counsel connected with the action, nor am I  
17 financially interested in the action.

18 DATED THIS 10<sup>th</sup> day of September 2013.

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LINDA BOLES, CRR, RPR  
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