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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSIONFILED SEP 10, 2013
DOCUMENT NO. 05341-13
FPSC - COMMISSION CLERK

In the Matter of:

DOCKET NO. 130040-EI

PETITION FOR RATE INCREASE
BY TAMPA ELECTRIC COMPANY.
_____ /

VOLUME 6

Pages 960 through 1205

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.
JACOB POUS Prefiled Direct Testimony Inserted	964
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DONNA RAMAS Prefiled Direct Testimony Inserted	1034
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STEVE W. CHRISS Prefiled Direct Testimony Inserted	1123
MICHAEL GORMAN Prefiled Direct Testimony Inserted	1134

EXHIBITS

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NUMBER :

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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 5.)

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DIRECT TESTIMONY

OF

Jacob Pous

On Behalf of the Office of Public Counsel

Before the

Florida Public Service Commission

Docket No. 130040-EI

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Jacob Pous and my business address is 1912 W Anderson Lane, Suite 202, Austin, Texas 78757.

Q. WHAT IS YOUR OCCUPATION?

A. I am a principal in the firm of Diversified Utility Consultants, Inc. (“DUCI”). A copy of my qualifications appears as Exhibit JP-1.

Q. PLEASE DESCRIBE DIVERSIFIED UTILITY CONSULTANTS, INC.

A. DUCI is a consulting firm located in Austin, Texas with an international client base. The personnel of DUCI provide engineering, accounting, economic, and financial services to its clients. DUCI provides utility consulting services to municipal governments with utility systems, to end-users of utility services, and to regulatory bodies such as state public service commissions. DUCI provides complete rate case

1 analyses, expert testimony, negotiation services, and litigation support to clients in
2 electric, gas, telephone, water, sewer, and cable utility matters.

3

4 **Q. HAVE YOU PREVIOUSLY TESTIFIED AS AN EXPERT WITNESS IN**
5 **PUBLIC UTILITY PROCEEDINGS?**

6 A. Yes. Exhibit JP-1 also includes a list of proceedings in which I have previously
7 presented testimony. I have also been involved in numerous utility rate proceedings
8 that resulted in settlements before testimony was filed. In total, I have participated in
9 well over 400 utility rate proceedings in the United States and Canada and have
10 testified as an expert in many areas, including depreciation, cash working capital,
11 operations and maintenance expenses, corporate overhead allocations, fuel costs, fuel
12 inventories, and class cost of service. Also worthy of note is that I have testified on
13 behalf of the staff of five different state regulatory commissions and one Canadian
14 regulator.

15

16 **Q. WHAT IS YOUR PROFESSIONAL BACKGROUND?**

17 A. I am a registered professional engineer. I am registered to practice as a Professional
18 Engineer in the State of Texas, as well as several other states.

19

20 **Q. ON WHOSE BEHALF ARE YOU PROVIDING THIS TESTIMONY?**

21 A. Florida’s Office of Public Counsel (“OPC”) engaged me to address the amortization
22 aspects of the revenue requirements request of Tampa Electric Company (the

1 “Company” or “Tampa Electric”) pending before the Florida Public Service
2 Commission (the “Commission” or “PSC”) in this proceeding.

3 **SECTION I: OVERVIEW**

4 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

5 A. My testimony will address two issues associated with the Company’s proposed
6 amortization of software investment recorded in Account 303 – Miscellaneous
7 Intangible Plant – Software. The first issue addresses the Company’s proposal for
8 continuation of a five-year amortization period for the vast majority of the
9 investments in its software systems and a request for a 10-year amortization for its
10 newly installed Enterprise Resource Planning (“ERP”) software system. I
11 recommend adjusting these amortization periods to 15 years. The second issue I
12 address relates to the level of amortization reserve associated with the Company’s
13 newly installed ERP software system. The Company has booked amortization
14 expense into the accumulated provision for amortization through the end of 2014
15 based on a 10-year amortization period, while it appears that the Commission has
16 only approved a five-year amortization period for software in prior proceedings.
17 Therefore, I recommend that the Company’s 13-month amortization reserve in 2014
18 be increased from \$3.327 million to \$5.271 million. My testimony is also supported
19 by Exhibit JP-2, which contains copies of referenced materials.

1 **Q. WHAT IS THE IMPACT OF YOUR RECOMMENDATIONS?**

2 A. Adjusting the Company’s proposed five- and 10-year software system amortization
3 periods to 15 years results in a \$6.197 million decrease to the Company’s proposed
4 \$10.126 million intangible software amortization expense for 2014 and an increase in
5 2014 rate base of \$3.099 million.

6 The impact of my second recommendation results in a \$1.948 million increase to the
7 Company’s proposed 2014 amortization reserve, which decreases overall rate base by
8 the same amount.

9

10 **SECTION II: BACKGROUND**

11 **Q. DID THE COMPANY FILE A DEPRECIATION STUDY WITH THE**
12 **COMMISSION IN APRIL 2011?**

13 A. Yes. In Docket No. 110131-EI, the Company filed its regular depreciation and
14 decommissioning studies in compliance with Rules 25-6.0436(8)(a) and 25-
15 6.04364(3), F.A.C. Order No. PSC-12-0175-PAA-EI, issued April 3, 2012, at p. 1.
16 While amortization of intangible software is often a component of depreciation
17 analyses, the Company’s study and the corresponding proceeding before the
18 Commission do not address any changes to software amortization. The Company’s
19 decision not to address software amortization in its depreciation filing was made with
20 apparent knowledge that it was going to implement a new ERP software system later
21 that year. Therefore, the Company had every opportunity to inform the Commission
22 of any proposed change to software amortization that it was inclined to implement for
23 its soon-to-be-implemented ERP software system. However, it chose not to do so.

1 Given that the Company did not address software amortization in its recent
2 depreciation filing before the Commission, it is appropriate to review the Company's
3 prior rate proceeding for guidance as to whether it specifically sought permission to
4 apply a different amortization period to the new ERP software system compared to
5 the Commission-approved five-year amortization period for investment in Account
6 303 – Intangible Plant - Software. A review of Docket No. 080317-EI, the last rate
7 case, and the resulting Order No. PSC-09-0283-FOF-EI, reveals that the only
8 discussion regarding software amortization corresponds to a five-year amortization
9 period. (Order No. 09-0283-FOF-EI, issued April 30, 2009, at pp 11, 12, 73, and 74).
10 Therefore, the Company's request to rely on a 10-year amortization period for its new
11 ERP software system in this case represents the first formal request to change the
12 Commission's authorized five-year amortization period for software investment.

13 14 **SECTION III: SOFTWARE AMORTIZATION PERIOD**

15 **Q. WHAT IS AMORTIZATION?**

16 A. In its publication entitled *Depreciation Practices*, the National Association of
17 Regulatory Utility Commissioners ("NARUC") defines amortization as "[t]he process
18 of allocating a fixed amount, such as total cost of an asset to an expense account over
19 future accounting periods." (1996 edition of *Public Utility Depreciation Practices* at
20 p. 314). The Federal Energy Regulatory Commission ("FERC") also defines
21 amortization as ". . . the gradual extinguishment of an amount in an account by
22 distributing such amount over a fixed period, over the life of the asset or liability to

1 which it applies, or over the period during which it is anticipated the benefit will be
2 realized.” (FERC Uniform System of Accounts 18 CFR Part 101, at Definition 4).

3 **Q. DOES THE COMPANY AMORTIZE ITS INVESTMENT IN ACCOUNT 303 –**
4 **INTANGIBLE PLANT - SOFTWARE?**

5 A. Yes. The Company records its \$70 million investment in software in Account 303 –
6 Miscellaneous Intangible Plant. The Company has previously relied on a five-year
7 amortization service life or period for software capitalized to Account 303 –
8 Miscellaneous Intangible Plant. (Response to OPC’s Third Set of Interrogatories, No.
9 23). The Company proposes to continue its reliance on a five-year amortization
10 period for all of its major software system investments except for its new ERP
11 system, for which it proposes a 10-year amortization period. (Response to OPC’s
12 Ninth Set of Interrogatories, No. 130 (a)).

13

14 **Q. WHEN DID THE COMPANY ESTABLISH ITS FIVE-YEAR**
15 **AMORTIZATION PERIOD ASSUMPTION FOR INTANGIBLES**
16 **SOFTWARE?**

17 A. The Company initiated a five-year amortization for software in “. . . the late 1970s.”
18 (Response to OPC’s Third Set of Interrogatories, No. 23). In other words, the
19 Company has employed a five-year amortization period for approximately 35 years,
20 without change.

1 **Q. WHAT WAS THE COMPANY'S BASIS FOR ADOPTING A FIVE-YEAR**
2 **AMORTIZATION PERIOD FOR SOFTWARE IN THE LATE 1970S?**

3 A. The Company relied on what it claims is "guidance" from the FERC Commission's
4 Audit Division Chief, to the FERC's Audits Division Field Staff concerning the
5 proper accounting for software capitalized, which was issued on March 1, 1977.
6 (Response to OPC's Third Set of Interrogatories, No. 23). Further, the Company
7 states that it ". . . believes this life is still representative of the life of general use
8 software due to technological obsolescence and upgrade cycles." (Response to
9 OPC's Third Set of Interrogatories, No. 23). (Emphasis Added).

10

11 **Q. IF THE FIVE-YEAR AMORTIZATION WAS ESTABLISHED IN THE LATE**
12 **1970S BASED ON GUIDANCE FROM FERC REGARDING CAPITALIZED**
13 **SOFTWARE, IS THE FIVE-YEAR PERIOD STILL VALID TODAY?**

14 A. No, at least not without the benefit of any verifiable basis. While common sense and
15 logic dictate that "guidance" given 35 years ago for software systems is no longer
16 valid given the changes in technology, the Company should have been aware that
17 FERC formally documented its position on depreciation, and in effect amortization,
18 which impacts capitalized software in FERC Order No. 618, issued July 27, 2000. In
19 that order, FERC noted its statutory obligation to ensure that electric utilities charge
20 proper amounts of depreciation (capital recovery) to expense each financial reporting
21 period and amended its general instructions for Title 18 of the Code of Federal
22 Regulations, Part 101, regarding the standards for determining depreciation for
23 accounting purposes. The impact of FERC's action was ". . . to ensure that utilities

1 allocate in a systematic and rational manner the cost of utility property to the periods
2 during which the property is used in utility operations.” (FERC Order No. 618 at p.
3 1).

4

5 **Q. HAS THE COMPANY PROVIDED ANY SUPPORT AND JUSTIFICATION**
6 **FOR ITS BELIEF THAT THE FIVE-YEAR AMORTIZATION PERIOD**
7 **ESTABLISHED MORE THAN 35 YEARS AGO IS STILL VALID?**

8 A. No. (Response to OPC’s Third Set of Interrogatories, No. 23 (a)). In spite of FERC’s
9 mandate that the amortization life or time period be supported by engineering,
10 economic, or other depreciation studies, the Company fails to provide any support for
11 its claim other than by stating that it still “believes” the five-year period is right.

12

13 **Q. DID YOU REQUEST ALL STUDIES OR ANALYSES PERFORMED BY THE**
14 **COMPANY SINCE 1999 TO TEST THE CONTINUED REASONABLENESS**
15 **OF THE FIVE-YEAR AMORTIZATION PERIOD EMPLOYED?**

16 A. Yes. However, the Company specifically stated that no analyses had been done to
17 support the five-year amortization period. It instead relies on the phrase “judgment
18 and experience” to validate the continued use of a five-year amortization period. The
19 phrase, “judgment and experience,” without any quantifiable support in the form of
20 the required engineering, economic, or other depreciation studies, is insufficient.

1 **Q. DO THE COMPANY’S ACTIONS COMPLY WITH FERC DIRECTIVES**
2 **REGARDING DEPRECIATION ACCOUNTING?**

3 A. No. General Instruction 22 of the Uniform System of Accounts states that a utility
4 “. . . must use a method of depreciation [amortization] that allocates in a systematic
5 and rational manner the service value of depreciable property over the service life of
6 the property.” (Emphasis added) (USOA General Instruction 22 Depreciation
7 Accounting (a) Method). General Instruction 22 further states that “[e]stimated
8 useful service lives of depreciable property must be supported by engineering,
9 economic, or other depreciation studies.” The Company’s admission that it has not
10 performed any such studies demonstrates not only the lack of support for the
11 Company’s proposal, but also a violation of FERC’s current requirement guidelines.

12
13 **Q. IS THE COMPANY’S CLAIMED “JUDGMENT AND EXPERIENCE” BASIS**
14 **FOR A FIVE-YEAR AMORTIZATION PERIOD FOR SOFTWARE**
15 **AMORTIZATION APPLICABLE TO ALL SOFTWARE?**

16 A. Apparently not. While defending its use of a five-year amortization period without
17 any specific analyses, studies, or empirical evidence, the Company states that for its
18 new ERP software system it is now proposing that a 10-year amortization be adopted.
19 (Response to OPC’s Ninth Set of Interrogatories, No. 130 (a)). Apparently, there are
20 different aspects of undefined “judgment and experience” that the Company is not
21 willing to share or identify.

1 **Q. GIVEN THAT TAMPA ELECTRIC IS PROPOSING A NEW**
2 **AMORTIZATION PERIOD FOR A SINGLE NEW SOFTWARE SYSTEM,**
3 **HAS THE COMPANY PROVIDED ANY SUPPORT FOR THAT**
4 **AMORTIZATION PERIOD?**

5 A. No. However, given Tampa Electric’s statements that it relies on “judgment and
6 experience” to validate the continued use of a five-year amortization period for all its
7 other software systems, it must be assumed that it is also relying on some undefined
8 and unsubstantiated “judgment and experience” to now propose a new 10-year
9 amortization period for the single new ERP software system.

10

11 **Q. HAS THE COMPANY DIFFERENTIATED ANY ASPECT OF ITS NEW ERP**
12 **SOFTWARE SYSTEM COMPARED TO ANY OF ITS OTHER SOFTWARE**
13 **SYSTEMS AS IT PERTAINS TO AN APPROPRIATE AMORTIZATION**
14 **PERIOD?**

15 A. No. As was the case for its proposed continued use of a five-year amortization period
16 for all types of software systems, the Company has not presented or performed any
17 analysis or study to establish or determine the reasonableness of its assumed 10-year
18 amortization period.

1 **Q. DID YOU SPECIFICALLY REQUEST THE COMPANY TO PROVIDE A**
2 **DETAILED DESCRIPTION OF THE FUNCTION AND IDENTITY OF EACH**
3 **SEPARATE SOFTWARE SYSTEM?**

4 A. Yes. While the Company was requested to provide both a detailed identification and
5 a detailed narrative description of the function of each separate software system
6 recorded in Account 303 – Miscellaneous Intangible Plant – Software, the Company
7 chose to provide only two columns of information in a spreadsheet as its response.
8 One column was identified as “Description” and another was identified as “Narrative
9 Description.” Some of these “detailed” identifications or descriptions of software
10 systems that the Company presented are the word “Software,” the abbreviation
11 “NERC,” phrases such as “Amortizable Equipment,” the word “NONE,” and other
12 non-descriptive words or phrases. (Response to OPC’s Third Set of Interrogatories,
13 No. 20, electronic file). In other words, the Company chose to provide generalized
14 and less-than-descriptive words or limited phrases to identify and explain its software
15 systems.

16
17 **Q. IN VIEW OF THE OFTEN NON-DESCRIPTIVE INFORMATION**
18 **PROVIDED BY THE COMPANY FOR VARIOUS SOFTWARE SYSTEMS IN**
19 **RESPONSE TO AN INTERROGATORY, DID YOU CONTINUE TO SEEK**
20 **MORE DETAILED INFORMATION?**

21 A. Yes. The Company was given a second opportunity to provide a detailed
22 identification of each software system, as well as the purpose and function of each
23 software system in OPC’s Ninth Set of Interrogatories. (OPC’s Ninth Set of

1 Interrogatories, No. 128 (a) and (b)). Yet, the Company again often provided one
2 word or limited phrases of a few words, many of which provide no meaningful
3 identification or explanation of the software that constitutes tens of millions of dollars
4 of investment. In other words, the Company presented information that does not
5 provide either a clear or meaningful indication of the type of software system, or its
6 function. These shortcomings severely limit the ability to make any type of detailed
7 analysis as to the proper life expectancy of such software.

8

9 **Q. IN YOUR ATTEMPT TO IDENTIFY THE REASONABLENESS OF THE**
10 **COMPANY'S PROPOSED USEFUL LIFE FOR SOFTWARE, DID YOU**
11 **SEEK INFORMATION REGARDING SOFTWARE SYSTEMS STILL IN USE**
12 **BUT WHICH WERE ALREADY FULLY AMORTIZED?**

13 A. Yes. Identifying software systems that are still in use yet fully amortized under the
14 Company's five-year amortization proposal would help demonstrate whether the
15 Company's belief in an amortization period established in 1977 was still valid.
16 However, the Company failed to identify any software system that was or is still in
17 service following the expiration of the five-year amortization period and the
18 corresponding retirement for "accounting" purposes. Indeed, the Company states that
19 it ". . . does not maintain records that identify each separate software system removed
20 from service (i.e., physically removed) for the past 10 years." (Response to OPC's
21 Third Set of Interrogatories, No. 22). In addition, the Company noted its ". . .
22 accounting practice for capital software projects. . ." is to ". . . retire [accounting
23 wise] the asset when fully amortized." (Response to OPC's Third Set of

1 Interrogatories, No. 22). This practice bares no relationship to the FERC mandate
2 that the capital recovery be systematic and rational, and supported by engineering,
3 economic, or other depreciation studies.

4

5 **Q. PLEASE SUMMARIZE THE COMPANY’S JUSTIFICATION AND BASIS**
6 **FOR SEEKING IN EXCESS OF \$10 MILLION IN ANNUAL**
7 **AMORTIZATION EXPENSE FOR ITS INVESTMENT IN SOFTWARE.**

8 A. The Company adopted a five-year amortization period for software systems in 1977.
9 The Company has not performed any studies or analyses since 1977 to demonstrate
10 the validity of retaining a five-year amortization or any other period of time. The
11 Company either does not maintain detailed identification and functionality of its
12 software systems, or chooses not to provide it even when specifically requested to do
13 so. The Company states that it cannot even identify what software systems are still in
14 place providing service after having been in service for five years or longer. In spite
15 of these facts, the Company requests that the Commission and customers accept its
16 undefined and unsubstantiated belief based on “judgment and experience” that a five-
17 year amortization is still a reasonable value 35 years after it was adopted, except for
18 its new software system. For that new system, the Company has not even explicitly
19 stated that it believes that the proposed 10-year amortization period is reasonable.

1 **Q. DO YOU BELIEVE THAT THE COMPANY'S PRESENTATION IS**
2 **REASONABLE?**

3 A. No. Before the Y2K situation many of the old legacy software systems in place,
4 caused massive change out of major software systems in the late 1990s, had useful
5 lives of 20 to 30 years. As software systems were replaced with more modern
6 software systems, due in part to the Y2K situation, those early generations of
7 software systems often were assigned short amortization periods given their unknown
8 future status. However, in the past decade SAP, Oracle, and other major software
9 developers have created platforms or architectures associated with their software
10 packages or systems that are scalable and modularized. The practice of making
11 modifications, enhancements, upgrades, etc. to systems rather than replacing entire
12 systems has become common. Indeed, other utilities have been increasing
13 amortization periods from initially shorter periods. Again, longer life expectancy for
14 newer software systems is a function of either recognizing that the initial estimates
15 were artificially short, or that the newer type of software systems that are being
16 purchased or developed provided the ability to make modifications and expand the
17 systems rather than simply replacing an entire system once it became less effective.

1 **Q. NOTWITHSTANDING THE COMPANY’S FAILURE TO IDENTIFY ANY**
2 **SOFTWARE SYSTEMS STILL IN SERVICE YET FULLY AMORTIZED, DO**
3 **YOU BELIEVE THAT THE COMPANY IN FACT CONTINUES TO RELY**
4 **ON SUCH SYSTEMS?**

5 A. Yes. A review of what limited information the Company has provided demonstrates
6 that many capital expenditures for newer software systems are actually
7 “enhancements” or “upgrades” to existing systems. In other words, the Company has
8 not physically retired some of its older software systems when they became fully
9 amortized and retired from an accounting standpoint. (Response to OPC’s Third Set
10 of Interrogatories, No. 20, attachment on electronic file).

11

12 **Q. DO UTILITIES RELY IN PART OR IN FULL ON SOFTWARE SYSTEMS**
13 **AFTER SUCH SYSTEMS ARE FULLY ACCRUED?**

14 A. Yes. Continued use of software systems after they become fully amortized is not
15 uncommon. What this situation demonstrates is that often a utility’s initial estimate
16 of a useful life for its software system was artificially short. In effect, utilities have
17 charged accelerated amortization levels to customers in the past, which resulted in
18 those customers paying more than their fair share of the useful life for that software.

1 **Q. IF THE COMPANY CONTINUES TO USE SOFTWARE AFTER IT IS**
2 **FULLY AMORTIZED, DOES THAT VIOLATE REGULATORY**
3 **PRINCIPLES?**

4 A. Yes. If the Company employs an artificially short amortization period that results in
5 accelerated capital recovery, then intergenerational inequity is created and the
6 matching principle is violated. In other words, it forces one generation of customers
7 to overpay for its use of a software system for the benefit of a future generation of
8 customers who receive the benefit of such system, yet will not pay any amortization
9 expense. Moreover, in certain instances, the accelerated capital recovery benefits
10 shareholders without future generations of customers receiving a commensurate
11 benefit.

12
13 **Q. IS THE ADOPTION OR CONTINUATION OF ACCELERATED**
14 **DEPRECIATION OR AMORTIZATION APPROPRIATE?**

15 A. No. Once identified, all reasonable efforts should be implemented to correct such
16 situations. Indeed, the reason why depreciation studies are performed on a regular
17 basis and supported by studies is to identify changes in life and salvage characteristics
18 that require correction of accelerated or deferred capital recovery practices.
19 However, the Company's approach for more than three decades has been to ignore
20 that responsibility even though it has performed depreciation studies on other assets.

1 **Q. WHAT ANNUAL LEVEL OF AMORTIZATION EXPENSE IS THE**
2 **COMPANY REQUESTING?**

3 A. The Company is requesting approximately \$10.126 million of annual amortization
4 expense associated with its investment in Account 303 – Miscellaneous Intangible
5 Software. (MFR Schedule B-9, p. 10 of 30).
6

7 **Q. BEYOND THE VIOLATION OF THE MATCHING PRINCIPLE AND**
8 **CREATION OF INTERGENERATIONAL INEQUITY, IS THERE A**
9 **PARTICULAR PROBLEM WITH ARTIFICIALLY SHORT**
10 **AMORTIZATION PERIODS?**

11 A. Yes. When short amortization periods are requested for significant dollar levels of
12 investments, resulting impacts must be analyzed in relation to the revenue
13 requirements reflected in base rates and the timing of future rate cases. The concern
14 associated with this situation is one where incremental and unintended return dollars
15 can be created when investment becomes fully amortized.
16

17 **Q. WHAT HAPPENS WHEN INVESTMENT BECOMES FULLY AMORTIZED**
18 **BETWEEN RATE CASES?**

19 A. When amortizable plant becomes fully amortized or accrued between rate cases, the
20 collection of revenues from customers for that investment through base rates does not
21 also stop. In other words, an expense is no longer being incurred, but customers are
22 still charged as though the expense was still in place. In addition, since the expense is
23 no longer being recognized from an accounting standpoint, customers no longer

1 receive a benefit for paying the expense through the accumulated provision for
2 amortization, which is an offset to rate base.

3

4 **Q. HOW DOES THE COMPANY ACCOUNT FOR REVENUES FOR AN**
5 **EXPENSE THAT IT NO LONGER INCURS?**

6 A. Revenues received by a Company with no offsetting expense increase the Company's
7 earnings, which can then become an incremental return for the benefit of
8 shareholders.

9

10 **Q. DOES THE COMPANY REPLACE FULLY AMORTIZED PLANT WITH**
11 **NEW REPLACEMENT PLANT?**

12 A. Not necessarily. When amortization periods are set at too short a period of time,
13 investment in such plant often continues to be used and useful even though it is
14 retired from an accounting standpoint. Absent a rate case that would capture the
15 impact of plant becoming fully amortized, along with all other changes in revenue
16 requirements, an opportunity is created for the Company to over-collect for the
17 expense associated with the item of plant, and even earn more than its allowed rate of
18 return.

19

20 **Q. DO YOU AGREE WITH THE COMPANY'S PROPOSED FIVE-YEAR**
21 **AMORTIZATION PERIOD FOR THE MAJORITY OF ITS SOFTWARE**
22 **AND NEW 10-YEAR PROPOSAL FOR ITS NEW ERP SYSTEM?**

1 A. No. While the movement to a 10-year amortization period for the new ERP system is
2 a step in the right direction, it is still inadequate. Moreover, the five-year
3 amortization period employed for the Company's remaining software system
4 significantly understates reasonable life expectations for major software systems.

5

6 **Q. WHAT DO YOU RECOMMEND?**

7 A. I have two recommendations. First, I recommend that a 15-year amortization period
8 be prescribed for all software systems recorded in Account 303. In conjunction with
9 this recommendation, I also recommend that the Commission order the Company to
10 perform detailed engineering, economic, or other depreciation studies of its software
11 systems to establish the reasonable expected useful life of such systems and to present
12 such findings, along with all support and justification corresponding to such
13 amortization periods, in its next rate or depreciation proceeding. The Company's
14 presentation should specifically identify those software systems that were fully
15 amortized in the past but, still remained physically in service beyond the previous
16 amortization period, and the period of continued use after being fully amortized.

17

18 **Q. WHAT IS THE BASIS FOR YOUR RECOMMENDATION FOR A 15-YEAR**
19 **AMORTIZATION PERIOD?**

20 A. First, it must be noted that most of the software systems at issue are not what are
21 normally thought of as desktop applications such as Microsoft Word or Excel. The
22 investment in Account 303 is heavily weighted towards SAP and PowerPlan systems.

1 Therefore, any concept of a short life attributable to experiences with desktop
2 software is not particularly pertinent.

3

4 Next, other utilities are moving to establish amortization periods for software as long
5 as 20 years. Indeed, in its recent rate proceeding, Florida Power & Light Company
6 disclosed that it was extending the amortization period for its new general ledger
7 accounting software system from five years to 20 years. (Docket No. 120015-EI,
8 Direct Testimony of Marlene Santos at p. 14). Some other utilities are already using
9 10 to 25 years for major software investments. Given that the Company has chosen
10 not to adequately identify its software systems or the functions of such systems, and
11 further chosen not to investigate the useful life of its software systems for over 35
12 years, it is reasonable to choose the middle ground between a high-end 20- to 25-year
13 life and the realistic lower-end level 10- to 12-year life proposed by some other
14 utilities for major software systems.

15

16 **Q. WILL YOUR RECOMMENDATION FOR A 15-YEAR AMORTIZATION**
17 **PERIOD DEPRIVE THE COMPANY OF ANY CAPITAL RECOVERY**
18 **ASSOCIATED WITH ITS SOFTWARE INVESTMENT?**

19 A. No. The Company is still entitled to the recovery of its investment. However, the
20 establishment of a longer amortization period does protect customers from fully
21 accrued amortization situations that result in creating additional artificial return for
22 the Company.

1 **Q. WHAT IS THE IMPACT OF YOUR RECOMMENDATION?**

2 A. My recommendation results in a \$6.197 million reduction in 2014 amortization
3 expense associated with the Company's investment in Account 303 – Miscellaneous
4 Intangible Software. This adjustment is derived by converting the Company's \$8.466
5 million annual amortization request associated with the five-year amortization
6 investment category to a 15-year amortization period ($\$8.466 \text{ million} \times 5 / 15 =$
7 $\$2.822 \text{ million}$), and converting the Company's 10-year amortization investment
8 category to a 15-year amortization period ($\$1.660 \text{ million} \times 10 / 15 = \1.107 million),
9 adding the two amounts, and subtracting the total from the Company's request
10 ($\$10.126 - \$2.822 - \$1.107 = \6.197 million). In addition, there is a corresponding
11 reduction to the 2014 reserve by one-half of the 2014 expense adjustment, or \$3.099
12 million.

13

14 **SECTION IV: SOFTWARE RESERVE ADJUSTMENT**

15 **Q. WHAT IS THE ISSUE IN THIS PORTION OF YOUR TESTIMONY?**

16 A. This portion of my testimony will address the Company's incorrect booking of
17 amortization reserve associated with its new ERP software system for 2012 and 2013.

18

19 **Q. DOES THE COMPANY IDENTIFY TWO SEPARATE SUBACCOUNTS FOR**
20 **ACCOUNT 303 – MISCELLANEOUS INTANGIBLE SOFTWARE?**

21 A. Yes. Company MFR Schedules B-7, B-8, and B-9 all identify Accounts 303.00 and
22 303.01 as two separate software amortization categories (see pp. 10, 20, and 30 of 30
23 for Schedules B-7 through B-9).

1 **Q. DOES THE COMPANY CONSISTENTLY IDENTIFY THE TWO SEPARATE**
2 **SUBACCOUNTS?**

3 A. No. On MFR Schedules B-7 and B-9, the Company identifies Account 303.01 –
4 Software – Amortization corresponding to a 10-year period, while for Schedule B-8,
5 the Company identifies a five-year amortization period for the same subaccount.
6 However, based on a review of the depreciation provision recorded in years 2012
7 through 2014, it appears that the Company relied on a 10-year amortization period,
8 even though such change in the amortization period would not be effective until 2014.

9
10 **Q. WHAT IS THE COMMISSION APPROVED AMORTIZATION PERIOD FOR**
11 **INVESTMENT IN SOFTWARE RECORDED IN ACCOUNT 303?**

12 A. As previously noted, the Company's recent depreciation filing before the
13 Commission did not address Account 303; therefore, the amortization period last
14 approved by the Commission corresponds to the Company's 2008 rate filing as noted
15 in Order No. PSC-09-0283-FOF-EI, issued on April 30, 2009. In that order, the only
16 identifiable software amortization period is the continuation of the five-year
17 amortization period employed by the Company since the late 1970s.

1 **Q. IF THE COMMISSION HAS NOT SPECIFICALLY APPROVED ANY**
2 **AMORTIZATION PERIOD FOR SOFTWARE INVESTMENT OTHER**
3 **THAN FIVE YEARS, IS THE COMPANY'S CALCULATION OF ITS**
4 **AMORTIZATION RESERVE IN 2012 AND 2013 CORRECT?**

5 A. No. The Company has relied on a 10-year amortization period for calculating
6 amortization expense during 2012 and 2013 for its investment in the new ERP
7 software system. This corresponds to a time frame prior to the effective date of any
8 change in amortization period that will transpire as a result of this proceeding.

9
10 **Q. WHAT CORRECTIVE ACTION IS REQUIRED?**

11 A. The level of amortization expense recorded in 2012 and 2013 should be increased to
12 reflect a five-year amortization period rather than a 10-year amortization period
13 calculated by the Company. Given my recommendation to increase the amortization
14 period to 15 years beginning in 2014, the 2014 reserve should also be adjusted, but
15 downward to recognize my recommended longer amortization period. The
16 adjustments for 2012 and 2013 must be made regardless of any decision relating to
17 the appropriate software system amortization approved by the Commission for 2014.

18
19 **Q. WHAT IS THE IMPACT OF YOUR RECOMMENDATION TO THE**
20 **AMORTIZATION RESERVE?**

21 A. Correcting 2012 and 2013 amortization reserves to reflect a five-year period for
22 Account 303.01 results in a \$2.497 million *increase* in the reserve. Further,
23 correcting the reserve to recognize a 15-year amortization for 2014 results in a \$0.553

1 million *decrease* to the reserve in 2014. Therefore, the continued impact is a net
2 *increase* of \$1.944 million to the reserve.

3

4 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

5 A. Yes. However, to the extent that I have not addressed a specific issue, methodology,
6 approach, etc., this should not be construed as my concurrence with the Tampa
7 Electric's methodology, approach, calculation, etc.

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DIRECT TESTIMONY

OF

HELMUTH W. SCHULTZ, III

On Behalf Of the Office of Public Counsel

Before the

Florida Public Service Commission

Docket No. 130040-EI

I. INTRODUCTION

Q. WHAT IS YOUR NAME, OCCUPATION AND BUSINESS ADDRESS?

A. My name is Helmuth W. Schultz, III. I am a senior regulatory analyst in the firm of Larkin & Associates, PLLC, with offices at 15728 Farmington Road, Livonia, Michigan 48154.

Q. PLEASE DESCRIBE THE FIRM LARKIN & ASSOCIATES, PLLC.

A. Larkin & Associates, PLLC, is a Certified Public Accounting and Regulatory Consulting Firm. The firm performs independent regulatory consulting primarily for public service/utility commission staffs and consumer interest groups (public counsels, public advocates, consumer counsels, attorneys general, etc.). Larkin & Associates, PLLC, has extensive experience in the utility regulatory field as expert witnesses in over 800 regulatory proceedings, including those involving numerous electric, water and sewer, gas and telephone utilities.

1 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE FLORIDA PUBLIC**
2 **SERVICE COMMISSION AS AN EXPERT WITNESS?**

3 A. Yes. I have testified before the Florida Public Service Commission (“PSC”) as an
4 expert witness in the area of regulatory accounting in more than 15 cases.

5

6 **Q. HAVE YOU PREPARED AN EXHIBIT THAT DESCRIBES YOUR**
7 **QUALIFICATIONS AND EXPERIENCE?**

8 A. Yes. I have attached Exhibit HWS-1, which is a summary of my regulatory
9 qualifications and experience. I have also attached Exhibit HWS-2, Schedules C-1
10 through C-8, which support the adjustments that I have recommended. I would note
11 that my schedules in Exhibit HWS-2 begin with C-1, to correspond with the Net
12 Operating Income “C” Schedules in Tampa Electric Company’s Minimum Filing
13 Requirements (“MFRs”).

14

15 **Q. BY WHOM WERE YOU RETAINED?**

16 A. Larkin & Associates, PLLC was retained by the Florida Office of Public Counsel
17 (“OPC”). Accordingly, I am appearing on behalf of the Citizens of Florida
18 (“Citizens”).

19

20 **II. PURPOSE OF TESTIMONY**

21 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

1 A. Our firm was asked by OPC to analyze the rate increase requested by Tampa Electric
2 Company (“Tampa Electric” or “Company”) and provide our analysis of Tampa
3 Electric’s revenue needs.

4
5 **Q. WHAT ARE THE RESULTS OF YOUR ANALYSIS OF THE REQUESTED**
6 **INCREASE FOR TAMPA ELECTRIC?**

7 A. I am recommending that the Commission adjust various expenses requested by
8 Tampa Electric, because the Company's requested expense levels are not justified.
9 My testimony addresses issues related to payroll, the performance-sharing program,
10 employee benefits, payroll taxes, directors and officers liability insurance, generation
11 maintenance expense, rate case expense, the storm reserve and accrual, and tree
12 trimming. My adjustments are incorporated in OPC’s recommended revenue
13 requirement calculations and have been reflected in the exhibits of OPC witness
14 Donna Ramas.

15
16 **III. PAYROLL**

17 **Q. PLEASE EXPLAIN THE PAYROLL ASSUMPTIONS THAT THE**
18 **COMPANY HAS INCLUDED IN ITS PROJECTED TEST YEAR.**

19 A. The Company’s request assumes an average addition of 114 positions above the 2012
20 average for a projected number of employees of 2,455. Tampa Electric also projects
21 an average annual compensation increase of approximately 3%. OPC is not taking
22 issue with the Company’s request for the 3% base compensation increase.

1 **Q. ARE THERE CONCERNS WITH THE COMPANY’S PAYROLL REQUEST**
2 **FOR THE PROJECTED TEST YEAR?**

3 A. Yes. The Company’s payroll assumption that an average of 114 additional
4 employees will be required in 2014 is not reasonable and has not been justified by
5 Tampa Electric.

6

7 **Q. HAVE YOU FOUND ANY INCONSISTENCIES BETWEEN THE**
8 **COMPANY’S FILING AND ITS RESPONSES TO DISCOVERY**
9 **REGARDING THE PROJECTED NUMBER OF NEW POSITIONS IN 2014?**

10

11 A. Yes, inconsistencies exist. The Company indicated in its response to Staff’s
12 Interrogatory No. 95 that it projects 82 new positions in 2014, instead of the 114
13 positions reflected in its MFRs on Schedule C-35 and in the Company’s response to
14 OPC Interrogatory No. 2. Additionally, the response to OPC Interrogatory No. 141
15 lists 96 new positions.

16

17 **Q. WOULD YOU EXPLAIN WHY THERE IS A DIFFERENCE BETWEEN THE**
18 **114 AVERAGE ADDITIONAL EMPLOYEES IN THE COMPANY’S MFRS**
19 **FOR 2014 AND TAMPA ELECTRIC’S RESPONSES TO STAFF’S**
20 **INTERROGATORY NO. 95 AND OPC INTERROGATORY NO. 141?**

21 A. In its response to Staff’s Interrogatory No. 95, the Company does not appear to
22 include unfilled budgeted vacant positions. As shown on Company MFR Schedule
23 C-35, the increase in the average positions is 114 when one subtracts the 2012

1 average of 2,341 positions from the 2014 budgeted average of 2,455. The difference
2 exists in the additional employee count provided in Tampa Electric’s response to
3 OPC Interrogatory No. 141 because the positions listed are new positions and do not
4 include vacancies.

5

6 **Q. WHY IS THE ADDITION OF AN AVERAGE OF 114 EMPLOYEES FOR**
7 **THE RATE YEAR QUESTIONABLE?**

8 A. The Company’s proposed additions are questionable for three reasons: (1) in Tampa
9 Electric’s last rate case, Docket No. 080317-EI, the Company’s approved increase in
10 the number of employees did not materialize; (2) as of March 31, 2013, the actual
11 employee count was below the projected employee count for March 2013; and (3) the
12 Company does not provide sufficient support for the additional employees requested.

13

14 **Q. DO YOU HAVE ANY ADDITIONAL CONCERNS REGARDING TAMPA**
15 **ELECTRIC’S PAYROLL?**

16 A. Yes. The fact that the Company does not typically budget payroll by projecting the
17 number of employees adds to my concerns. Tampa Electric’s response to OPC
18 Interrogatory No. 2 states “Prior to the preparation of the 2013 budget in 2012, the
19 number of employees was not projected; therefore, the number of budgeted
20 employees cannot be provided for 2010, 2011 or 2012.” The Company prepared its
21 filing using budgeted employee counts but apparently did not use the same type of
22 budgeted information to monitor its performance (i.e., whether actual employee count
23 tracks the budgeted amount for that time period). This raises serious concerns to me

1 as to how the Company can measure performance when a variance in employee
2 count, an important component of payroll, is not tracked and/or monitored.

3

4 **Q. PLEASE EXPLAIN THE HISTORY OF THE COMPANY'S REQUEST FOR**
5 **ADDITIONAL EMPLOYEES.**

6 A. In its last rate case, Docket No. 080317-EI, the Company proposed an increase of 151
7 positions from an average of 2,487 in 2007, to 2,638 in its 2008 projected test year.
8 However, the actual 2008 average number of employees increased to only 2,538; or
9 100 fewer positions than projected. The Company's response to OPC Interrogatory
10 No. 56 in Docket No. 080317-EI, showed a decrease in its employee complement in
11 11 out of 15 years during the period 1992 through 2007. Only in 2006 and 2007 did
12 Tampa Electric have consecutive increases in the number of its employees.
13 Moreover, the Company had declines in the average number of positions in 2009,
14 2010, and 2011 to 2,474, 2,312, and 2,303, respectively. In 2012, there was only a
15 slight increase to an average of 2,341.

16 In the last rate case, the Commission agreed with my recommendation to
17 reduce the requested employee complement by 90 positions to a complement of
18 2,548. When you compare the actual employee complement level that the Company
19 maintained in 2008, the Commission's adjustment did not reflect a sufficient
20 reduction. Even with the 90-position reduction, the 2,548-employee complement
21 allowed the Company to over recover its payroll costs from 2009 through 2012.
22 Based on Tampa Electric's history, especially after the last rate case, the current
23 request for 114 additional employees beyond 2012 does not appear to be justified.

1 **Q. WHAT CHANGE OCCURRED AFTER 2008 THAT WOULD HAVE**
2 **IMPACTED THE EMPLOYEE COMPLEMENT?**

3 A. Based on pages 6 and 7 of Company witness Register’s direct testimony, TECO
4 Energy, Inc. (“TECO Energy”), Tampa Electric’s parent, undertook a reorganization
5 that eliminated 169 positions at Tampa Electric. Additionally, in response to OPC
6 Interrogatory No. 86, the Company indicated that 12 of the 169 positions eliminated
7 were vacant.

8

9 **Q. ARE THERE PLANS FOR A SIMILAR REORGANIZATION IN THE**
10 **FUTURE?**

11 A. According to the Company’s response to Staff Interrogatory No. 53, it has no plans
12 for a similar reorganization in the future.

13

14 **Q. DID THE COMPANY PROVIDE ANY TESTIMONY TO SUPPORT THE**
15 **ADDITION OF 114 EMPLOYEES IN THE CURRENT CASE?**

16 A. The Company’s attempt to justify its requested increase in employees is inadequate,
17 in my opinion. Several of the Company’s witnesses address its need for employees;
18 however, careful analysis shows no basis to believe additional positions are
19 necessary. On page 7 of her direct testimony, Company witness Young stated that
20 Tampa Electric “. . . will hire new apprentice linemen, apprentice substation
21 journeymen, two cable splicers, and a relay tester to meet NERC requirements.” On
22 page 34 of his direct testimony, Company witness Register references the
23 “Continuation of a four-year apprentice program for developing and transferring

1 knowledge and skills acquired by journeymen linemen.” However, his testimony
 2 discusses the “continuation” of an apprentice program, not an implementation of a
 3 new hiring program. Page 36 of 41 of Document No. 3, attached to the testimony of
 4 Company witness Chronister, states: “All positions that are budgeted for 2014 will be
 5 filled with qualified employees at rates and in the timeframe that they were
 6 budgeted.” While the employee complement for each month January through March
 7 2013 is higher than the average for 2012, the January through March 2013 employee
 8 count is actually lower than the counts of November and December 2012. None of
 9 these witnesses’ testimony provides justification for adding any of the new positions
 10 or that these new positions would actually be filled. As noted above, Tampa Electric
 11 has a history of requesting significant amounts of additional positions that never are
 12 filled, yet ratepayers are supporting these unfilled positions.

13

14 **Q. WHAT ABOUT THE NEED FOR THE SKILLED POSITIONS DISCUSSED**
 15 **BY COMPANY WITNESS YOUNG?**

16 A. The Company’s response to Staff Interrogatory No. 49 indicates that 20 skilled
 17 positions will be added in 2013 and again in 2014. Based on the history of the
 18 Apprentice Linemen Program, the addition of 40 skilled positions is a suspect number
 19 for several reasons. First, Tampa Electric’s response to OPC Interrogatory No. 100
 20 indicates that from 2005 through 2013, the average class size in the Company’s
 21 Apprentice Linemen Program was 11.

22 Second, the response also indicates that for 2013, the initial class size is 14 not
 23 the 20 identified in Tampa Electric’s response to Staff Interrogatory No. 49. Further,

1 Tampa Electric’s response to OPC Interrogatory No. 141 indicates that of the 96
2 proposed new positions, there are 16 Apprentice Lineman positions planned for 2013
3 and 16 Apprentice Lineman positions for 2014. The response also indicates that in
4 2013 only 14 of the 16 positions were filled.

5 Third, the Company’s response to Staff Interrogatory No. 49 states: “The
6 number hired each year is based on anticipated retirements and the training time for
7 replacements.” While an additional complement of 14 skilled employees may be
8 hired in 2013, there will be some anticipated retirements from the previous year and
9 possibly the current year that will offset the cumulative effect to total skilled
10 positions. As I indicated earlier, Company witness Register indicated that the
11 Apprentice Linemen Program is a continuation of a program and not the
12 implementation of a new program. Finally, Tampa Electric’s response to OPC
13 Interrogatory No. 2 shows that the union count was 906 as of December 2012, and
14 that the count was 894 as of March 2013. So, even though the Company’s
15 Apprentice Linemen Program has 14 new hires in 2013, the union employee count
16 has declined overall by 12 positions since 2012.

17

18 **Q. WHAT ABOUT COMPANY WITNESS CHRONISTER’S STATEMENT**
19 **THAT “ALL POSITIONS THAT ARE BUDGETED FOR 2014 WILL BE**
20 **FILLED WITH QUALIFIED EMPLOYEES AT RATES AND IN THE**
21 **TIMEFRAME THAT THEY WERE BUDGETED”?**

22 A. The Company’s response to OPC Interrogatory No. 2 indicates that Mr. Chronister’s
23 statement regarding all 2014 budgeted positions will be filled in the budgeted

1 timeframe is already an overstatement. In January 2013, the actual employee count
2 was 48 positions below the budgeted level. The trend continued through March 2013
3 with the actual count being below budget. Tampa Electric's projected timeframe
4 commitment has not been met. Thus, the Company's average employee complement
5 of 2,455 for the test year is overstated.

6
7 **Q. WHAT ADJUSTMENT ARE YOU RECOMMENDING TO THE EMPLOYEE**
8 **COMPLEMENT?**

9 A. The Company's request should be reduced by 104 positions to a complement of
10 2,351. This allowance reflects 10 more positions than the actual average for the year
11 ended 2012. As shown on Exhibit HWS-2, Schedule C-1, the reduction of 104
12 positions reduces operation and maintenance ("O&M") expense by \$5,705,698 to a
13 more reasonable expense level of \$127,448,302. This is a reduction of \$5,701,824 on
14 a jurisdictional basis.

15
16 **IV. PERFORMANCE SHARING PROGRAM**

17 **Q. HAVE YOU REVIEWED THE COMPANY'S REQUEST FOR INCENTIVE**
18 **COMPENSATION THAT IT CALLS THE PERFORMANCE SHARING**
19 **PROGRAM?**

20 A. Yes. According to the Company's response to OPC Interrogatory No. 8, the
21 Company has projected \$12,383,000 for the 2014 Tampa Electric Performance
22 Sharing Program ("PSP"). This amount reflects the Company's request for PSP
23 payouts of \$7,383,040 for safety goals, and \$5,000,000 for operational goals. Of this

1 amount, the Company projected that \$9.8 million would be charged to O&M
2 expenses during 2014. (See Tampa Electric's response to OPC Interrogatories Nos.
3 146 and 147) The Company made a proforma adjustment to reduce the Tampa
4 Electric PSP in its MFRs by \$946,000, as shown on MFR Schedule C-2, page 1, for
5 the Tampa Electric officer and key employee target incentives directly related to
6 TECO Energy results. Company witness Register testifies, on page 19, that this
7 adjustment is consistent with the Commission's methodology in the last rate case.
8 Mr. Register also states that Tampa Electric's PSP is the same basic variable
9 compensation program that was included in previous rate cases (Success Sharing
10 program).

11

12 **Q. HAS THE COMPANY REVISED THE AMOUNT OF THE PROFORMA**
13 **ADJUSTMENT TO REMOVE OFFICER AND KEY EMPLOYEE**
14 **INCENTIVES THAT ARE TIED TO TECO ENERGY RESULTS?**

15 A. Yes. First, on June 3, 2013, the Company revised Mr. Register's testimony to change
16 this amount to \$1,055,000. On July 8, 2013, the Company again revised Mr.
17 Register's testimony, changing the adjustment to \$1,247,000. I would note that,
18 while Mr. Register's testimony has changed, the amount reflected in the MFRs has
19 not been changed. Nor has the Company explained why the factor used to determine
20 the adjustment has been changed other than to state that the change was per data
21 calculated in OPC Interrogatory No. 57(b).

1 **Q. WHAT IS THE INTENT OF TAMPA ELECTRIC'S INCENTIVE**
2 **PROGRAM?**

3 A. On pages 16 and 17 of his direct testimony, Mr. Register asserts that the intent of the
4 incentive compensation program is to maintain Tampa Electric's position relative to
5 the market in total annual compensation while putting a portion of pay at risk. The
6 pay, according to Mr. Register, is "at risk" because it is based on meeting
7 performance goals that are purported to "drive and motivate team members to achieve
8 high levels of performance." Mr. Register then states that the program emphasizes
9 safety, cost control and resource optimization through a link with business
10 performance and personal contributions. Finally, Mr. Register states that the
11 requested incentive pay is based on the target level payout. It is important to note that
12 the Company's requested 5% for incentive payments is in addition to an across-the-
13 board, 3% base pay increase.

14

15 **Q. CAN YOU GENERALLY EXPLAIN THE TARGET AND GOAL LEVELS**
16 **FOR INCENTIVE COMPENSATION PLANS?**

17 A. The target is a goal level established by a plan. Generally, there are three levels for
18 incentive plans. The "Threshold" is the minimum achievement on which a payout of
19 the target percentage will be paid (i.e. less than 100% of the 2% safety goal). The
20 "Target" achievement level is set at 100%. The "Maximum" or "Stretch"
21 achievement level is generally set at 150% of the Target goal percent payout. That
22 would mean that if the Maximum was achieved, the payout for the 2% safety goal

1 would be 3% (i.e., 150% of 2%). The actual achievement for a payout can range
2 anywhere from 50% to 150% of the goal percentage.

3

4 **Q. WHAT ARE THE TARGET GOALS AND ACHIEVEMENT PERCENTAGES**
5 **FOR TAMPA ELECTRIC'S PSP PROGRAM?**

6 A. According to Company witness Register and the Company's response to
7 Interrogatory No. 7, the potential PSP plan payout is 12% of eligible compensation in
8 2013, of which 2% is related to safety performance goals, 3% for operational goals,
9 and 7% for net income goals (5% for Tampa Electric and 2% for TECO Energy).
10 According to Mr. Register's direct testimony on page 18, the Company is not
11 requesting recovery of the 7% net income incentives in this rate case.

12

13 **Q. PLEASE DESCRIBE YOUR CONCERNS WITH THE COMPANY'S**
14 **INCENTIVE PLAN OBJECTIVES.**

15 A. First, the Company's explanation of the plan's objectives for the operational goals
16 suggests that the payouts have historically been tied to financial goals which benefit
17 the shareholders, not ratepayers. Based on this history, we would expect that the
18 Company after the conclusion of this rate case is likely to again tie payout of
19 operating goals with meeting the financial goals.

20 Second, there is significant doubt as to whether this incentive pay is truly "at
21 risk" pay. In 2012, 2,394 employees were eligible for incentive compensation
22 payments; only 11 did not receive a payment. The number of eligible employees not
23 receiving the incentive compensation payment in 2010 and 2011 were 2 and 3,

1 respectively. (See Company response to OPC Interrogatory No. 6) Common sense
2 suggests that, when almost all employees' performance meets the requirements to
3 receive a payment, the goals are not adequate. Thus, the incentive compensation
4 request becomes a de facto 5% annual bonus on top of the 3% base pay increase the
5 Company has already included in its revenue request.

6 Finally, the target amount requested for 2014 is based on achieving goals that
7 have not yet been established. The Company is assuming for 2014 that performance
8 will be at a level that actually exceeds the performance achieved in both 2011 and
9 2012. In 2011 and 2012, the only payout made by the Company was 2% related to
10 safety goals.

11

12 **Q. PLEASE COMPARE THE TARGET AMOUNT REQUESTED FOR 2014 TO**
13 **AMOUNTS PAID IN 2011 AND 2012.**

14 A. On page 17 of his direct testimony, Company witness Register states that 2014 goals
15 have not been determined but are expected to be consistent with 2013 goals. In each
16 of the years 2011 and 2012, the PSP distribution/payout was only 2% of eligible
17 compensation. According to the response to OPC Interrogatory No. 8, the amount
18 actually paid for 2011 and 2012 was \$6,060,568 and \$7,026,902, respectively; yet,
19 the 2014 budgeted amount is \$12,383,000. I would also note that the 2010 actual
20 payout of \$19.5 million exceeded the budgeted expense of \$5.7 million by \$13.8
21 million. The average PSP payout expensed was only \$6,129,635 for the period 2010
22 to 2012. It is interesting to note that this highest level of payout was almost 3 times

1 the budgeted amount and occurred in the year following the completion of Tampa
2 Electric's last rate case.

3

4 **Q. IS THE INCREASE IN THE PROJECTED AMOUNT FOR THE INCENTIVE**
5 **PROGRAM PROBLEMATIC?**

6 A. Yes. The Company maintains that goals are likely to remain consistent (i.e., no
7 significant changes), yet the requested 2014 incentive payment is significantly higher
8 than the historical payouts for the last two years. Moreover, the budgeted payout for
9 2014 is \$12,383,000 compared to the 2013 budgeted payout of \$7,168,000, even
10 though the goals are not expected to change significantly. In addition, the increased
11 budgeted amount improperly assumes an increase in performance without any
12 established goals. Finally, the Company has indicated in its response to OPC
13 Interrogatory No. 145 that the amount requested for 2014 is based on a plan change,
14 which in my opinion is contrary to the Company's position that the goals are likely to
15 remain consistent.

16

17 **Q. WHY DO YOU BELIEVE THE 2014 PLAN CHANGE IS CONTRARY TO**
18 **THE COMPANY'S CLAIM THAT THE GOALS ARE LIKELY TO REMAIN**
19 **CONSISTENT?**

20 A. The goals appear to be similar; however, there is a key difference between the payout
21 determination applied in 2011 and 2012 and what the Company is proposing in 2014.
22 The Company stated in its response to OPC Interrogatory No. 145 that a payment was
23 not made in 2011 and 2012 for achievement of operational goals because the net

1 income goal was not achieved. The 2013 budgeted PSP also assumes the operational
2 payout will not be made because the net income goal will not be achieved. However,
3 for 2014, the Company is proposing to remove the net income goal as a condition for
4 payment of the operational goals. Thus, contrary to the Company's payout history in
5 2011 and 2012 and the Company's budget assumption for 2013, the Company is now
6 requesting that it be allowed to collect from customers the money necessary to cover
7 payments for achievement of operational goals even if net income goals are not
8 achieved. It is inappropriate to ask ratepayers to cover such expenses during a rate
9 case, when the Company is unwilling to make the same payment outside a rate case.

10

11 **Q. WHAT IS THE BASIS FOR YOUR PRIMARY RECOMMENDATION**
12 **REGARDING THE TAMPA ELECTRIC PSP COSTS?**

13 A. I recommend that the Tampa Electric PSP costs should be limited to the 2% safety-
14 related percentage distributed in 2011 and 2012. Tampa Electric has not justified
15 why the incremental operational incentives are reasonable, why the plan change is
16 reasonable, and why the allowed costs should be greater than the 2% safety-related
17 PSP distributed in 2011 and 2012. My recommendation does not prohibit the
18 Company's continued use of the PSP Program; I am saying only that shareholders
19 should be responsible for the unsupported program costs.

20

21 **Q. PLEASE EXPLAIN YOUR ANALYSIS ON SCHEDULE C-2 FOR YOUR**
22 **PRIMARY RECOMMENDATION.**

1 A. Exhibit HWS-2, Schedule C-2 reflects the calculation of the \$8,535,570 of Tampa
2 Electric's PSP included in the 2014 projected test year O&M expenses. The
3 Company states in response to OPC Interrogatory No. 147 that the amount of
4 incentive compensation included in O&M expense in this filing is \$9.8 million out of
5 the total Tampa Electric PSP of \$12,383,000, which reflects an expense ratio of 79%.
6 I then applied the Company's reduction to PSP for key employees and officers of
7 \$1,247,000 in arriving at the adjusted Tampa Electric PSP expense. I would note that
8 the Company has not explained why the percentage of PSP costs expensed is 79%,
9 when the percentage of payroll expensed is 66.8%.

10

11 **Q. WHAT IS THE AMOUNT OF PSP THAT THE COMMISSION SHOULD**
12 **ALLOW TAMPA ELECTRIC TO RECOVER IN RATES?**

13 A. I calculated my recommended PSP allowance of \$2,548,966 for Tampa Electric PSP
14 based on 2% of my recommended payroll expense of \$127,448,302 (see line 15 of
15 Exhibit HWS-2, Schedule C-1). Again, the 2% incentive payout is what was earned
16 in 2011 and 2012 and what the Company budgeted for in 2013. However, I consider
17 even that level to be questionable, because the goals do not really require an
18 improvement in performance. The result is a reduction of \$5,986,604 for the PSP for
19 Tampa Electric. The adjustment is calculated on lines 1 through 10 of Exhibit HWS-
20 2, Schedule C-2.

21

22 **Q. IF THE COMMISSION DOES NOT AGREE WITH YOUR PRIMARY**
23 **RECOMMENDATION, DO YOU HAVE AN ALTERNATE ADJUSTMENT?**

1 A. Yes. As an alternative to my primary recommendation, I have taken the 2013
 2 budgeted PSP payout amount of \$7,168,000 and escalated this by the 3% base salary
 3 increase, which equates to \$7,383,000. The 2013 budget does not include the
 4 additional \$5 million for a separate operational PSP payout. After applying the
 5 Company’s 79% O&M expense factor for PSP, the adjusted PSP O&M expense is
 6 \$5,832,570. Then I remove the Company’s \$1,247,000 proforma reduction
 7 adjustment (2nd revised) discussed by Company witness Register from the
 8 \$5,832,570, resulting in an adjusted PSP expense payout of \$4,585,570.

9

10 **Q. WOULD YOU RECOMMEND THAT YOUR ALTERNATE**
 11 **RECOMMENDATION BE SHARED BETWEEN SHAREHOLDERS AND**
 12 **RATEPAYERS?**

13 A. Yes. I believe that as an alternative the Commission should limit the customers’
 14 responsibility to 50% of the \$4,585,570 expense, or \$2,292,785. Using this 50/50
 15 sharing alternative, my adjustment to the Tampa Electric PSP would be \$6,242,785.
 16 This calculation is reflected on lines 15 through 23 of my Exhibit HWS-2, Schedule
 17 C-2. I would note that this amount is less than the amount of my primary
 18 recommended allowance which did not contemplate an equal sharing.

19

20 **Q. IN DOCKET NO. 080317-EI, DID YOU RECOMMEND AN ADJUSTMENT**
 21 **TO INCENTIVE COMPENSATION?**

22 A. Yes. I recommended a total disallowance because the goals were not sufficient to
 23 justify including the cost of incentive compensation in rates. The Commission did

1 not agree with my recommendation. The Commission stated that lowering or
 2 eliminating incentive compensation would mean Tampa Electric employees would be
 3 compensated below employees at other companies, which would adversely affect the
 4 Company’s ability to compete in attracting and retaining a high quality and skilled
 5 workforce. However, in Order No. PSC-09-0283-FOF-EI at page 58, the
 6 Commission did require the Company to remove the cost of incentive compensation
 7 associated with TECO Energy results.

8

9 **Q. WHAT IF THE COMMISSION DOES NOT ACCEPT YOUR**
 10 **RECOMMENDATION OF SHARING UNDER THE ALTERNATIVE**
 11 **SCENARIO?**

12 A. If the Commission were to take exception with the 50/50 sharing alternative, then the
 13 proper expense allowance would be \$4,585,570, not the Company requested adjusted
 14 amount of \$8,535,570. In Tampa Electric’s last rate case, the Commission stated that
 15 disallowing the costs “. . . would mean TECO employees would be compensated
 16 below employees at other companies, which would adversely affect the Company’s
 17 ability to compete in attracting and retaining a high quality and skilled workforce.”
 18 See Order No. PSC-09-0283-FOF-EI, at page 58. However, there is no evidence in
 19 this case that the payment of incentive compensation is required to attract and retain
 20 employees. In fact, Tampa Electric did not pay out the 3% operational portion of the
 21 PSP plan in 2011 and 2012.

1 **Q. ARE YOU AWARE OF OTHER CASES IN WHICH ADJUSTMENTS WERE**
2 **MADE TO INCENTIVE COMPENSATION AND THE ABILITY TO**
3 **ATTRACT AND MAINTAIN A QUALITY WORKFORCE WAS NOT**
4 **AFFECTED?**

5 A. Yes. In the Progress Energy Docket No. 090079-EI, the Commission disallowed all
6 of the requested incentive compensation because it was determined to be merely
7 additional compensation. This did not impact the ability of Progress Energy (now
8 Duke Energy Florida) to attract and retain a high quality and skilled workforce.

9 In my 38 years of experience, I have never found a utility that has reduced the
10 payout of incentive compensation or eliminated the incentive compensation plan
11 because a commission disallowed all or some of its request to include incentive
12 compensation in rates. To my knowledge, the Commission's disallowance of
13 incentive compensation did not result in the elimination of the plan.

14 In my opinion, the disallowance of some or even all of the incentive
15 compensation in rates does not impact the Company's ability to attract and retain a
16 qualified and skilled workforce, because companies do not eliminate such plans.

17

18 **Q. HAS THE COMPANY INCLUDED ANY ADDITIONAL COSTS IN ITS**
19 **FILING FROM TECO ENERGY RELATED TO INCENTIVE**
20 **COMPENSATION?**

21 A. Yes. The Company has included \$1,836,882 for the TECO Energy PSP included in
22 A&G Expenses Allocable to Tampa Electric. However, no proforma adjustment was
23 made to remove officer or key employee incentives from the TECO Energy allocated

1 costs. Further, no explanation is given as to whether any component of the TECO
2 Energy allocated incentives should be adjusted to be consistent with the
3 Commission’s adjustment in the prior rate case or whether the incentives are tied to
4 financial goals.

5

6 **Q. ARE YOU RECOMMENDING THAT AN ADJUSTMENT TO THIS**
7 **PORTION OF THE COMPANY’S REQUEST BE MADE?**

8 A. Yes. I believe that the entire \$1,836,882 allocated amount from TECO Energy should
9 be excluded from rates. The Company has failed to justify including the TECO
10 Energy allocation of PSP, which was simply buried in the allocated dollars from
11 TECO Energy. Absent evidence that the TECO Energy allocated costs are not tied to
12 TECO Energy’s net income, there is no reason why the costs should be allowed in
13 rates.

14

15 **Q. PLEASE SUMMARIZE YOUR ADJUSTMENTS FOR INCENTIVE**
16 **COMPENSATION.**

17 A. My primary recommendation reflects a reduction to the Company’s requested total
18 incentive compensation of \$7,823,486 (or \$7,818,174 jurisdictional) to allow a 2%
19 incentive on adjusted payroll for safety goals, with no allowance for the TECO
20 Energy allocated PSP costs. This adjustment reflects the sum of my recommended
21 reduction to the PSP Expense for Tampa Electric of \$5,986,604 and removal of the
22 TECO Energy PSP allocation \$1,836,882. If the Commission disagrees with that
23 adjustment, I recommend that the Commission allow a sharing of the cost of Tampa

1 Electric PSP costs excluding the additional \$5 million for operational goals that
2 reflected a change in the Company's incentive benefit policy. The \$5 million was not
3 paid and/or budgeted by the Company in 2011, 2012 and 2013. The net alternative
4 adjustment for the Tampa Electric PSP and TECO Energy allocation is a reduction to
5 O&M Expense of \$8,079,667 (\$8,074,181 jurisdictional). Both of my adjustments
6 are summarized on Exhibit HWS-2, Schedule C-2.

7

8 **V. EMPLOYEE BENEFITS**

9 **Q. WHAT IS THE COMPANY REQUESTING FOR EMPLOYEE BENEFITS IN**
10 **2014?**

11 A. The Company's request for 2014 includes \$81,242,000 for employee fringe benefits.
12 According to Tampa Electric's response to OPC Interrogatory No. 57, the amount
13 expensed is \$54,904,000. I should note that the Company's employee benefits
14 amounts include payroll taxes.

15

16 **Q. DO YOU RECOMMEND ANY ADJUSTMENTS TO THE COMPANY'S**
17 **REQUESTED EMPLOYEE BENEFITS?**

18 A. Yes. As noted earlier in this testimony, I have made a recommendation to adjust the
19 Company's payroll complement for 104 positions that are not justified by the filing.
20 A corresponding adjustment is also required to remove the employee benefit costs
21 associated with my recommendation to disallow 104 of those proposed additional
22 employees. Additionally, I am recommending that the cost associated with the Stock
23 Compensation Plan be disallowed.

1 **Q. PLEASE EXPLAIN THE ADJUSTMENT YOU ARE RECOMMENDING FOR**
2 **THE ADDITIONAL EMPLOYEES TO WHICH YOU HAVE TAKEN AN**
3 **EXCEPTION.**

4 A. As shown on Exhibit HWS-2, Schedule C-3, the employee benefits expense should be
5 reduced by \$1,679,971. The jurisdictional adjustment is \$1,678,721. My calculated
6 adjustment is based on the Company's projected benefit expense excluding stock
7 compensation and payroll taxes. Separate adjustments are recommended for the stock
8 compensation and payroll tax expense.

9
10 **Q. WHAT IS THE CONCERN WITH THE COMPANY'S STOCK**
11 **COMPENSATION PLAN?**

12 A. The response to OPC Interrogatory No. 9 indicates that this stock compensation plan
13 is an executive-type plan. According to the Company's May 1, 2013 proxy, this plan
14 is limited to five highly compensated executives. The plan is discriminatory since it
15 only applies to these select executives, and is an excessive cost that should not be
16 charged to ratepayers. Given the malaise of today's economy, it is unfair to ask
17 ratepayers to pay the bill for these already highly compensated executives' stock
18 options. In addition, the Company has expensed 100% of the plan costs, while the
19 other employee benefits have approximately 63% of the cost charged to expense
20 rather than capitalized to plant. In addition to the \$5,084,200 of stock compensation
21 included in Tampa Electric's benefit expense, the response to OPC Interrogatory No.
22 9 indicates that the Company has also included another \$4,638,481 as an allocated
23 expense from TECO Energy for stock compensation.

1 **Q. WHAT ADJUSTMENTS TO THE STOCK COMPENSATION PLAN ARE**
2 **YOU RECOMMENDING?**

3 A. I am recommending that the \$5,084,200 associated with the Tampa Electric stock
4 compensation and the \$4,638,481 allocated amount related to TECO Energy's stock
5 compensation be excluded from the Company's rate request. The total of this
6 adjustment is \$9,722,681. The jurisdictional adjustment is \$9,715,447. As I
7 indicated earlier, this is excessive compensation that should not be borne by
8 ratepayers.

9
10 **Q. DO YOU RECOMMEND AN ALTERNATIVE ADJUSTMENT IF THE**
11 **COMMISSION CONCLUDES THE STOCK COMPENSATION PLAN COSTS**
12 **SHOULD BE ALLOWED?**

13 A. Yes. I would then recommend that the \$5,084,200 of expense for the Tampa Electric
14 stock compensation be reduced by \$1,881,154 so that only 63% is expensed. This
15 would be consistent with the Company's expense factor for pensions and other
16 employee benefits. The expense percentage has no impact on my recommended
17 adjustment to remove the allocated amount for TECO Energy's stock compensation.

18

19 **VI. PAYROLL TAXES**

20 **Q. ARE YOU RECOMMENDING AN ADJUSTMENT TO THE COST FOR**
21 **PAYROLL TAX EXPENSE INCLUDED IN TAMPA ELECTRIC'S**
22 **REQUEST?**

1 A. Yes. As shown on HWS-2, Schedule C-4, the employee payroll tax expense should be
2 reduced by \$430,530. The jurisdictional adjustment is \$430,164. The adjustment is
3 necessary to account for the payroll tax expense associated with the 104 positions that
4 I am recommending be removed from the Company's payroll request.

5

6 **VII. DIRECTORS AND OFFICERS LIABILITY INSURANCE**

7 **Q. HAS TAMPA ELECTRIC INCLUDED THE COST OF DIRECTORS AND**
8 **OFFICERS LIABILITY INSURANCE IN ITS REQUEST?**

9 A. Yes. The Company's response to OPC Interrogatory No. 120 indicates the cost for
10 Directors and Officers Liability Insurance ("DOL") allocated to Tampa Electric for
11 2014 is \$798,546.

12

13 **Q. IS THE COST OF THIS INSURANCE AN APPROPRIATE COST TO**
14 **INCLUDE IN RATES?**

15 A. Not entirely. DOL insurance protects officers and directors from claims that are
16 made because of decisions that plaintiffs and agencies believe to be inappropriate.

17

18 **Q. WHY SHOULDN'T THIS INSURANCE BE ALLOWED WHEN THE COST**
19 **OF OTHER INSURANCE IS ALLOWED?**

20 A. DOL insurance coverage is not the same as any other type of insurance. Other
21 insurance protects the Company from accidents and unplanned events. This
22 insurance protects officers and directors when decisions that they have made are
23 challenged and/or determined to be bad business decisions. An added factor with

1 DOL insurance is that the primary plaintiffs are shareholders. In effect, DOL
2 insurance provides shareholders protection against their own decisions in the hiring of
3 the Board of Directors, who in turn hire the officers to manage the operation of the
4 Company. The benefit from settlements of this type of insurance flows through to
5 shareholders; therefore, shareholders should be responsible for the cost.

6

7 **Q. DO RATEPAYERS BENEFIT FROM THIS INSURANCE?**

8 A. The answer is subjective. In my experience, companies have argued that the
9 insurance does benefit ratepayers to the extent the Company is not required to pay
10 any claims associated with the poor decisions of management. In other proceedings
11 in which I have testified, companies have claimed that ratepayers benefit because the
12 insurance is necessary to attract and retain competent directors and officers. In fact,
13 the Commission made this observation in the most recent Gulf Power decision, Order
14 No. PSC-12-0179-FOF-EI, at pages 100 and 101. However, there has not been any
15 evidence presented that the companies were unable to attract and/or retain officers
16 and directors when shareholders were required to pay some of the cost of the
17 coverage. Ratepayers do not receive any of the proceeds from decisions and/or
18 settlements in directors and officer litigation, so ratepayers should not be responsible
19 for the cost of protecting shareholders from their own decisions.

20

21 **Q. WHAT ADJUSTMENT ARE YOU RECOMMENDING FOR DOL**
22 **INSURANCE?**

1 A. Based on what the Commission has determined as reasonable when I made
2 recommendations to adjust DOL costs in Progress Energy Docket No. 090079-EI and
3 Gulf Power Docket No. 110138-EI, I am recommending that the \$798,546 cost be
4 shared equally. Accordingly, I recommend that an adjustment of \$399,273 is
5 necessary; on a jurisdictional basis the adjustment is \$398,974.

6

7 VIII. GENERATION MAINTENANCE

8 **Q. DID YOU INQUIRE ABOUT TAMPA ELECTRIC'S REQUESTED**
9 **GENERATION EXPENSE?**

10 A. Yes. The Company has indicated that its projected cost of maintaining its generation
11 facilities have increased because of inflationary factors, the aging of equipment, the
12 implementation of new regulatory requirements, and postponement of non-critical
13 maintenance during the economic downturn of the last couple of years. On page 34
14 of his direct testimony, Company witness Hornick indicated that the planned
15 maintenance forecasted for 2014 is typical of the past and is expected to continue in
16 the future, with one exception; the conversion of Polk Units 2-5 from simple cycle to
17 combined cycle operation. Mr. Hornick also states that no costs related to the Polk
18 Conversion projects are included in the test year expenses sought in this rate request.
19 To evaluate the historic changes in cost and the Company's request for 2014 expense,
20 OPC requested the historical information and a detailed listing of the maintenance
21 projects for the period 2013 through 2016. Based on my review of the Company's
22 historical expenditures based on Tampa Electric's response to OPC Interrogatory No.
23 75, Tampa Electric did not justify the increase in the projected 2014 costs.

1 **Q. HOW DID YOU MAKE THIS DETERMINATION?**

2 A. In response to OPC Interrogatory No. 75, the Company provided the maintenance
3 costs for outages of the generation plants. As shown on Exhibit HWS-2, Schedule C-
4 5, the Company averaged \$11.811 million for outage maintenance expense from
5 2008-2012. The actual historical costs for the years 2003 through 2012, as shown in
6 the response to OPC Interrogatory No. 75, averaged \$10.832 million. The difference
7 between the five-year and ten-year average is less than \$1 million. This important
8 fact illustrates that the maintenance cost over time has not changed significantly.
9 Next, as shown on Exhibit HWS-2, Schedule C-5, line 9, I calculated the inflation-
10 indexed average outage expense to be \$13.497 million for the five years 2008-2012.

11 To determine the reasonableness of the Company's projection, I compared the
12 historical average costs (\$10.832-11.811 million), the historical inflation-indexed
13 costs (\$13.497 million), and the Company's 2014 request (\$17.585 million) for
14 reasonableness. Using the calculated estimate for 2014, which factors in price
15 increases and the Company's detailed project information, the Company's request of
16 \$17.585 million is overstated by \$4.088 million. As shown on Exhibit HWS-2,
17 Schedule C-5, test year generation maintenance expenses should be reduced by
18 \$4.088 million to reflect an increased level of spending that I believe is more
19 reasonable. The adjustment on a jurisdictional basis is \$4.088 million.

20

21 **Q. WOULD THE POLK CONVERSION MAINTENANCE PROJECTS IMPACT**
22 **YOUR RECOMMENDATION?**

1 A. No. The Polk Unit costs are summarized separately on Exhibit HWS-2, Schedule C-
2 5. The average cost for the years 2008-2012 was \$3.729 million. The inflation-
3 indexed costs for the years 2008-2012 was \$4.255 million. The Company's request
4 for 2014 is \$3.1 million for the Polk units. The 2014 costs in my analysis do not
5 reflect an increased spending level for the Polk units that which exceeds the historical
6 actual and/or indexed averages; therefore, the impact of any of the Polk Unit
7 conversion costs do not justify the Company's proposed increase.

8

9 IX. RATE CASE EXPENSE

10 **Q. PLEASE DISCUSS THE COMPANY'S REQUESTED RATE CASE**
11 **EXPENSE.**

12 A. The Company projects total rate case expense of \$2,200,000 and requests a three-year
13 amortization period. The Company included \$1,490,000 for legal, \$304,000 for
14 assistance in MFR preparation, \$173,000 for cost of capital consulting, \$136,000 for
15 rate design/cost of service consulting, \$51,000 for revenue forecasting and \$46,000
16 for storm damage analysis. Based on my analysis, the Company's rate case expense
17 request is excessive, and the three-year amortization period is too short.

18

19 **Q. WHY DO YOU BELIEVE THAT THE PROJECTED AMOUNT IS**
20 **EXCESSIVE?**

21 A. Tampa Electric (along with its parent, TECO Energy) is not a small company with
22 limited human resources that would require significant assistance in assembling a rate
23 filing. The Company has projected a total request of \$2.2 million of expense for this

1 rate case. A Company of this size is well aware of filing requirements and should not
2 have to rely on two outside contractors, PowerPlan and William Slusser, Jr., to
3 oversee its rate request. However, Tampa Electric has projected contracted services
4 other than legal of \$710,000 for this proceeding. In addition, the Company is
5 requesting excessive amounts for its cost of capital witness and outside legal fees.

6

7 **Q. WHY DO YOU BELIEVE THAT THE AMOUNT PROJECTED FOR**
8 **OVERSIGHT BY POWERPLAN IS EXCESSIVE?**

9 A. Tampa Electric should be capable of assembling a filing as well as processing a rate
10 proceeding without an outside consultant to essentially “supervise” the filing. As
11 discussed below, Tampa Electric’s response to OPC Interrogatory No. 108 indicates
12 the purpose for hiring PowerPlan is to make sure the filing is accurate, even though
13 none of the consultants will be filing testimony. On MFR Schedule C-10, the
14 Company requested \$225,000 for consulting services, \$34,000 for travel, and \$45,000
15 for other unexplained costs associated with the services for PowerPlan.

16

17 **Q. DID TAMPA ELECTRIC REQUEST RATE CASE EXPENSE FOR A**
18 **SIMILAR FIRM IN ITS LAST RATE CASE?**

19 A. Yes. In its last rate case, Tampa Electric employed a firm named Huron (which is no
20 longer in business) to perform many of the same types of services that the Company
21 engaged PowerPlan to provide in this case. In that docket, I testified that Tampa
22 Electric’s requested rate case expense for Huron was 3 times higher than the estimate
23 included in the vendor’s contract. I recommended that the \$1.3 million cost for that

1 firm be reduced to the \$468,000 contract level. The Commission agreed with my
2 recommendation that the Company had not supported the reasonableness of the
3 expense or actual amount spent in its “final actual and estimate to complete” for the
4 rate case expense.

5 In my experience, for a utility to seek the assistance of outside consultants
6 because it is incapable of assembling and overseeing a rate request in-house, is very
7 unusual. According to the response to OPC Interrogatory No. 108, the Company has
8 18 specific Company employees plus “several other regulatory team members”
9 providing support as needed to prepare and administer the rate case filing and answer
10 discovery requests. In my opinion, based upon the expertise and experience of
11 Tampa Electric, this type of outside consultant oversight by PowerPlan created an
12 unnecessary and unreasonable expense. At the very least, the cost should be
13 minimized.

14 The cost for PowerPlan’s oversight included in the filing is \$304,000. In my
15 opinion, this is an unnecessary expense. Contributing to the high cost are the
16 excessive average hourly rates that the Company has agreed to pay. (Tampa
17 Electric’s confidential response to OPC Document Request No. 83) Moreover,
18 Tampa Electric has not included a direct witness from PowerPlan to justify including
19 this cost even though ratepayers are asked to pay \$304,000 for PowerPlan’s
20 assistance.

21

22 **Q. WHAT SERVICES ARE POWERPLAN PROVIDING TO TAMPA**
23 **ELECTRIC?**

1 A. In Interrogatory No. 108, OPC asked Tampa Electric to explain in detail why
2 PowerPlan was hired and the types of services that were required. The response
3 states that PowerPlan services include reviewing:

4 ...the MFR's for overall accuracy, completeness and reasonableness,
5 consistency of the MFR's with surveillance report filings and the prior
6 rate case filing for income, rate base and capital structure items, tax
7 analysis and support on MFR's as well as prepared testimony with
8 regard to income tax issues, the review of pro-forma adjustments for
9 reasonableness, possible preparation and analysis of discovery
10 responses and the potential review of intervenor and Commission Staff
11 testimony.
12

13 Generally, in a rate case the Company's employees will respond to discovery and the
14 lawyers will review the responses. In this case, it appears that the Company has
15 added multiple layers of review, which has caused costs above and beyond what is
16 necessary and/or reasonable. Further, the Company has not supported why these
17 amounts should be allowed as rate case expense, as it did not provide any supporting
18 documentation to show the reasonableness of the amounts charged, the description of
19 the work actually performed, and the actual hourly rates and other expenses incurred.
20 It is the Company's burden to show that its requested costs are reasonable, and it has
21 failed that burden. As such, I recommend that the \$304,000 for PowerPlan be
22 removed.
23

24 **Q. PLEASE DISCUSS THE RATE CASE EXPENSE ASSOCIATED WITH THE**
25 **COST OF WILLIAM SLUSSER.**

26 A. Tampa Electric's response to OPC Interrogatory No. 109 states that Mr. Slusser's
27 services:

1 . . . include assisting with the preparation of the jurisdictional and cost
2 of service studies, evaluation of rate design alternatives as well as
3 development and review of the final rate design, reviewing the rate and
4 cost of service Schedule E MFRs for overall accuracy, completeness
5 and reasonableness, consistency of the MFRs, as well as testimony
6 review and review of pre-forma adjustments for reasonableness. Mr.
7 Slusser is also assisting in preparation and analysis of discovery
8 responses and the review of potential intervenor and Commission Staff
9 testimony.

10
11 The fee for Mr. Slusser’s consulting services is \$136,000.
12

13 **Q. IN YOUR OPINION, IS MR. SLUSSER PROVIDING A SERVICE THAT THE**
14 **COMPANY IS UNABLE TO PROVIDE FOR ITSELF?**

15 A. No. Mr. Slusser is not a witness, and Tampa Electric has not explained why the
16 services he performed were necessary or required. Tampa Electric has not justified or
17 explained why its staff is not capable of handling the rate request without adding
18 unnecessary outside consulting costs. The description of Mr. Slusser’s
19 responsibilities is very similar to the services to be provided by Power Plan and
20 appears to be work that could be performed by Company employees. In fact, Tampa
21 Electric’s employee Mr. Ashburn, not Mr. Slusser, is sponsoring Tampa Electric’s
22 rate design. Moreover, if Mr. Slusser’s services were required to justify the rate
23 design, the jurisdictional cost of service and the overall accuracy of the MFRs, the
24 Company would have had him file direct testimony. Further, it does not appear from
25 the response that Mr. Slusser is a potential rebuttal witness. I believe that this
26 \$136,000 fee is excessive and these costs should be removed. No sufficient
27 justification has been presented by the Company for Mr. Slusser’s services, thus
28 Tampa Electric has failed to meet its burden to include these costs.

1 **Q. PLEASE DISCUSS THE COST ASSOCIATED WITH THE COMPANY'S**
2 **COST OF CAPITAL WITNESS.**

3 A. Tampa Electric witness Robert Hevert of Sussex Economic Advisors is testifying as
4 to what he believes is a reasonable return on equity ("ROE"). Mr. Hevert's cost of
5 \$173,000 is roughly two and one-half times the \$70,000 that OPC has contracted to
6 pay for the same service in this proceeding, and is almost twice the amount that was
7 requested by Pepco for his services in Maryland Docket No. 9311. There is no
8 justification for including \$173,000 of costs for a ROE witness. In my opinion, the
9 cost is without question excessive for a cost of capital and return on equity witness,
10 especially when Company witnesses are also addressing these issues. Therefore, I
11 recommend that the Sussex Economic Advisors cost for \$173,000 be reduced to
12 \$70,000.

13

14 **Q. DO YOU HAVE A CONCERN WITH THE LEVEL OF THE COMPANY'S**
15 **LEGAL FEES INCLUDED IN RATE CASE EXPENSE?**

16 A. Yes. The legal fees being requested by Tampa Electric are also excessive, especially
17 when compared to the level allowed in Docket No. 080317-EI. The Company is
18 requesting \$1.490 million for rate case legal services. This request amounts to a
19 44.66% increase over the \$1.030 million allowed in Docket No. 080317-EI. In my
20 opinion, a 44.66% increase in five years is excessive. I recommend that the legal fees
21 be reduced by \$280,000. I calculate this reduction by escalating the \$1.030 million

1 allowed in Docket No. 080317-EI by the combined growth and inflation indices on
2 Company MFR Schedule C-40.

3

4 **Q. PLEASE EXPLAIN WHY YOU BELIEVE THE 3-YEAR AMORTIZATION**
5 **PERIOD IS TOO SHORT.**

6 A. The Company's last rate case was five years ago in 2008. In that request the
7 Company also proposed a three-year amortization period. In Docket No. 080317-EI,
8 Company witness Chronister testified that he was relatively certain that Tampa
9 Electric would request another rate increase sooner than 5 years. The Commission
10 determined a four-year amortization to be reasonable. If the approved rates in this
11 docket go into effect January 1, 2014, the Company will have recovered 56 months
12 (4.7 years) of amortization for the rate case expense from the 2008 docket. Based on
13 the annual expense of \$493,250 allowed in that docket, Tampa Electric has collected
14 approximately \$329,000 more from ratepayers than the actual rate case expense that
15 was approved by this Commission. The continued recovery of rate case expense
16 beyond when the expense has been fully recovered is not appropriate. A five-year
17 amortization period is more reasonable given the over-recovery that has occurred due
18 to the shortened amortization period in the last rate case and Tampa Electric's normal
19 pattern of long time periods between rate cases.

20

21 **Q. WHAT IS THE TOTAL ADJUSTMENT THAT YOU ARE**
22 **RECOMMENDING TO RATE CASE EXPENSE?**

1 A. Based on the adjustments discussed above and shown on Exhibit HWS-2, Schedule
2 C-6, rate case expense should be reduced by \$823,000. I am recommending that the
3 Company's projected costs of \$2.2 million (3-year amortization of \$733,000) be
4 reduced to \$1.377 million (5-year amortization of \$275,000). The result is a
5 reduction to amortization expense of \$458,000.

6

7 **X. STORM ACCRUAL AND TARGET RESERVE**

8 **Q. PLEASE EXPLAIN THE COMPANY'S REQUESTED STORM ACCRUAL**
9 **AND TARGET RESERVE.**

10 A. The Company is requesting that it be allowed to continue to accrue \$8,000,000
11 annually to the storm reserve and to increase its storm reserve target to \$100,000,000.
12 Tampa Electric witness Harris presents the results of his storm loss and reserve
13 performance analyses ("Storm Study") for Tampa Electric's system. Tampa Electric
14 witness Carlson testifies to the Company's requested annual storm accrual and target
15 reserve.

16

17 **Q. ARE THERE SOME CONCERNS WITH THE COMPANY'S REQUEST TO**
18 **CONTINUE ITS \$8 MILLION ACCRUAL AND INCREASE THE STORM**
19 **RESERVE TARGET TO \$100 MILLION?**

20 A. Yes. The Company's request to maintain the accrual and increase the reserve target
21 is not supported by the historical storm activity. The study relied upon by the
22 Company ignored a significant factor and is based on improper assumptions. In the
23 last rate case, the Commission increased the Company's annual accrual from \$4

1 million to \$8 million and increased the reserve target from \$55 million to \$64 million.
2 The amounts allowed were significantly less than the Company's request to increase
3 the annual accrual to \$20 million and the reserve target to \$120 million.
4

5 **Q. WOULD YOU EXPLAIN WHY HISTORICAL STORM ACTIVITY DOES**
6 **NOT SUPPORT MAINTAINING THE ACCRUAL AND THE RESERVE**
7 **TARGET REQUESTED?**

8 A. As indicated in its response to OPC Interrogatory No. 91, Tampa Electric has charged
9 only \$5,684,327 against the reserve for storms since 2004. That is an average of
10 \$668,744 per year over the last eight and one-half years. As shown on Exhibit HWS-
11 2, Schedule C-7, from December 31, 1999 to December 31, 2003, there were no
12 charges against the reserve. Clearly, with the exception of 2004, the amount charged
13 to the reserve has been minimal.
14

15 **Q. SHOULD THE 2004 STORMS BE CONSIDERED IN SETTING THE**
16 **TARGET STORM RESERVE?**

17 A. No. The storms in 2004 were an anomaly and were, as they should be, treated
18 differently by the Commission. The 2004 storms were of an intensity that caused a
19 level of damage that the Commission has historically stated is not the type intended to
20 be covered by the reserve. Moreover, the storm study ignores the significance of the
21 actual history of Tampa Electric's storm damages, in favor of theoretical storm
22 impacts.
23

1 **Q. WAS STORM HARDENING FACTORED INTO THE STUDY RELIED ON**
2 **BY THE COMPANY?**

3 A. No. As indicated in the response to OPC Interrogatory No. 90, “The Company does
4 not have an estimate of the effect the storm hardening plan may have in reducing
5 storm repairs.” The storm hardening costs included in rates over the past seven years
6 are assumed to provide some benefit when restoration is required. I acknowledge
7 that, because of the limited number of storms and the limited amount of damages
8 incurred since 2004, the full extent of the storm hardening benefit cannot be
9 determined. However, the storm hardening costs can be justified only by the
10 assumption that the benefits of lower restoration costs and outage times will occur.
11 To ignore any estimate of that benefit in the study is inappropriate.

12
13 **Q. WHAT IMPROPER ASSUMPTIONS ARE RELIED ON BY THE**
14 **COMPANY?**

15 A. First, the Company is assuming a 4.5% annual cost increase for inflation on the cost
16 of its transmission system that is not consistent with recent rates of inflation. Second,
17 the study factors in the intensity and impact of approximately 100,000 hypothetical
18 storms. A vast majority of these hypothetical storms are not geographically focused
19 on the Tampa Electric system. This fact was confirmed in Tampa Electric’s response
20 to OPC Interrogatory No. 112. Additionally, as indicated in its response to OPC
21 Interrogatory No. 113, only 12,000 of the hypothetical storms would cause damage to
22 the Tampa Electric system.

1 Third, Tampa Electric’s response to OPC Interrogatory No. 93 states that cost
 2 inputs in the study do not comply with the Commission’s rule on storm cost recovery.
 3 The Company’s response stated: “No, the Expected Annual Loss (“EAL”) computed
 4 in the Storm Loss Analysis is not consistent with Rule 25-6.0143(1)(d), Florida
 5 Administrative Code.” The Company’s requested storm accrual and its response
 6 indicates the study uses the replacement values as inputs, whereas the rule states that
 7 costs charged for storm related damage shall include only incremental costs. That
 8 means the study is a tool that may be considered but should not be relied on as the
 9 sole means for determining the annual accrual and in determining the reserve target.

10

11 **Q. HAS THE COMMISSION ALLOWED COMPANIES TO RECOVER STORM**
 12 **RELATED COSTS BY MEANS OTHER THAN A STORM ACCRUAL?**

13 A. Yes. In Order No. PSC-10-0131-FOF-EI, the Commission disallowed Progress
 14 Energy’s request to continue its accrual to the storm reserve. In that Order, the
 15 Commission concluded:

16 The Company has the option of petitioning this Commission for a
 17 surcharge to recover the storm damage costs not recovered through the
 18 storm damage reserve. As demonstrated in the past, we have allowed
 19 companies to recover extraordinary hurricane losses, such as the ones
 20 experienced by PEF in 2004, through a separate surcharge.

21
 22 Order No. PSC-10-0131-FOF-EI, issued March 5, 2010, at p. 71.
 23

24 **Q. WHAT ARE YOU RECOMMENDING FOR THE STORM RESERVE**
 25 **TARGET?**

26 A. The previous storm reserve target of \$55 million was considered sufficient from 1994
 27 through 2008. Both system and customer growth have occurred, as has inflation;

1 however, the Company has undertaken storm hardening projects designed to mitigate
2 the compounding increases in growth and inflation and limit the damage that a storm
3 might inflict. In my opinion, growth and inflation have not been at levels that would
4 justify increasing the reserve. Moreover, I note that the Company is now requesting a
5 target of \$100 million even though it requested a reserve target of \$120 million back
6 in 2008.

7 The current reserve target of \$64 million is sufficient. Any change would be
8 premature based on past Commission practice and based on the Company's recent
9 storm activity. Also, it should be noted that the reserve is not intended to provide for
10 recovery of storm damage of the magnitude that occurred in 2004. As of June 30,
11 2013 the reserve is at \$53.292 million. Tampa Electric's storm study indicates that
12 there is only an 8.68% probability that this reserve level would be exceeded in any
13 one year. As noted above, the Commission has ruled that the reserve is not intended
14 to recover the cost of storms as significant as those incurred in 2004.

15

16 **Q. WHAT ARE YOU RECOMMENDING FOR THE STORM ACCRUAL?**

17 A. Assuming the continuation of a storm reserve target of \$64 million, I am
18 recommending an annual accrual of \$3 million. Using a \$3 million accrual, the
19 Company's request should be reduced by \$5 million.

20

21 **Q. DOES YOUR RECOMMENDATION IMPACT RATE BASE?**

22 A. Yes. Assuming a reduction of \$5 million in the accrual, the reserve reflected in rate
23 base will also decrease by approximately \$2,500,000, the average of my

1 recommended adjustment. Because the storm reserve is a reduction to working
2 capital, my recommended adjustment increases rate base by \$2,500,000.

3 **Q. HOW DID YOU DETERMINE YOUR RECOMMENDED STORM ACCRUAL**
4 **OF \$3 MILLION?**

5 A. Assuming that charges against the storm reserve continue at the average level of
6 \$1.342 million as recorded over the past three years, and assuming the Company will
7 not seek another rate increase until 2017 (4 years), I calculated that the reserve would
8 reach the target level of \$63.923 million by December 31, 2017. This
9 recommendation is reasonable, when you consider that the Company's average
10 annual charge to the reserve for storms since 2004 has been \$668,744 and we are now
11 four years beyond the last change in rates.

12

13 **XI. TREE TRIMMING**

14 **Q. WOULD YOU EXPLAIN THE COMPANY'S REQUEST FOR TREE**
15 **TRIMMING?**

16 A. The Company is asking for \$8,261,622 for distribution tree trimming, \$692,678 for
17 enhanced tree trimming and \$349,454 for mowing, for a grand total of \$9,303,754 for
18 vegetation management. In her direct testimony, Company witness Beth Young
19 states that the Company is on a four-year trim cycle for distribution and that Tampa
20 Electric has devoted a great deal of effort to reduce costs while maintaining quality.
21 At pages 8-9 of her direct testimony, Ms. Young states that the cost per mile has
22 declined from \$6,920 in 2008, to a forecasted \$4,866 for 2014. Ms. Young further

1 states that the cost per mile has declined steadily by 30 percent in six years. Ms.
2 Young continues on pages 31-32 that the aggressive trim cycle implemented by
3 Tampa Electric has successfully reduced the old growth, resulting in a much lighter
4 trim requirement.

5

6 **Q. HAS THE COST FOR DISTRIBUTION TREE TRIMMING DECLINED AS**
7 **THE COMPANY HAS INDICATED?**

8 A. Yes. Tampa Electric's response to OPC Interrogatory No. 117 indicates the
9 Company's cost for tree trimming has declined from a high of \$12,375,631 in 2010 to
10 \$7,980,303 in 2012. The increase that actually began in 2009 was due to the
11 Company's transition to a three-year tree trimming cycle.

12

13 **Q. WHAT IS YOUR CONCERN WITH THE COMPANY'S TREE TRIMMING**
14 **REQUEST IN THIS PROCEEDING?**

15 A. First, my calculations reflect that Tampa Electric's cost per mile for tree trimming is
16 higher than Ms. Young indicates based on responses OPC has received in discovery.
17 As noted above, the Company states that it has projected its 2014 cost per mile to be
18 \$4,866; however, my calculations using the Company's response to OPC
19 Interrogatory No. 117 for tree trimming reflects a higher cost of \$5,245 per mile. I
20 calculated this using the Company's 2014 cost of \$8,261,622 divided by the 1,575.2
21 scheduled trim miles for 2014. The scheduled 2014 trim miles of 1,575.2, is one-
22 fourth of the 6,301 miles that are subject to trimming. Using the response to OPC

1 Interrogatory No. 117, I also calculated an actual cost per mile for 2012 of \$4,647 for
2 tree trimming alone.

3 Second, the Company has never expended what was allowed for annual tree
4 trimming expense in the last rate case. The Commission approved an annual expense
5 of \$14,759,000 in its order in that case. However, the most the Company expended in
6 any year since the rates from the last rate case went into effect was \$12,375,631 in
7 2010. Even if enhanced tree trimming and mowing were included, the highest
8 amount expended was \$13,398,688 in 2010. In 2012, the Company expended only
9 \$7,980,303, which is \$6,778,697 less than what was included in rates from the last
10 rate case. I believe that the extent to which the level approved in the last rate case
11 proved to be unnecessary should be taken into account when the Commission
12 determines the appropriate level of tree trimming expense in this proceeding.

13

14 **Q. WHAT ARE YOU RECOMMENDING FOR TREE TRIMMING?**

15 A. As shown on HWS-1, Schedule C-8, the Company should be allowed no more than
16 \$8,370,613 for tree trimming. That reduces the Company's \$9,303,754 request for
17 distribution tree trimming by \$933,141.

18

19 **Q. HOW DID YOU DETERMINE YOUR RECOMMENDED COSTS?**

20 A. The estimated cost is based on 1,575.2 trim miles at the 2012 rate of \$5,314 per mile,
21 which is inclusive of scheduled tree trimming, enhanced tree trimming and mowing.
22 The trim miles are the number of miles the Company has indicated that it would trim
23 in 2014. My 2012 rate per mile was calculated from the Company's response to OPC

1 Interrogatory No. 117, which includes the scheduled tree trimming, enhanced tree
2 trimming and mowing. This recommendation is an all-inclusive amount for
3 vegetation management. My recommendation is more than reasonable given today's
4 economic conditions and the volatility in Tampa Electric's cost per mile over the past
5 ten years.

6

7 **Q. DID YOU MAKE A SIMILAR RECOMMENDATION IN DOCKET NO.**
8 **080317-EI?**

9 A. Yes. In Docket No. 080317-EI, I recommended using the last actual cost per mile
10 multiplied by one-fourth of the number of miles the Company had indicated were
11 included in its system. The Company took exception to my calculation, claiming that
12 my cost per mile was understated because the trim miles I used purportedly included
13 miles without trees. The Commission adjusted my recommendation for the trim
14 miles upward from 1,530 miles to 1,775 miles and increased the cost per mile from
15 \$7,897 to \$8,315. The Company's request was reduced by \$1,314,000 in Order No.
16 PSC-09-0283-FOF-EI at pages 69-70. As shown on Exhibit HWS-2, Schedule C-8,
17 the average cost per mile after 2008 has been significantly lower than the
18 Commission allowed cost per mile of \$8,315.

19

20 **Q. PLEASE EXPLAIN THE DIFFERENCES BETWEEN THE COMMISSION'S**
21 **ADJUSTMENT TO TREE TRIMMING IN THE LAST RATE CASE AND**
22 **YOUR RECOMMENDATION IN THIS CASE.**

1 A. In the last rate case, Docket No. 080317-EI, the Commission agreed that the
2 Company's request was overstated. The Commission used my method of taking the
3 Company's 6,121 miles of overhead distribution miles included in the system because
4 the Company could not identify how many miles of distribution required trimming.
5 The Commission opted to use a 29% factor instead of my recommended 25% in
6 determining the number of miles to be trimmed. In this case, I am using the specific
7 number of miles the Company has indicated would be trimmed in 2014. This number
8 is one-fourth of the number of miles the Company has indicated is "subject to
9 trimming," so there is no question as to the number of miles used in my calculation.
10 My rate per mile is based on the actual cost for vegetation management and the miles
11 trimmed, as provided by the Company's response to OPC Interrogatory No. 117. As
12 discussed above, the Company's calculated cost per mile of \$5,245 (see OPC
13 Interrogatory No. 117) is not consistent with the forecasted rate of \$4,866 per mile for
14 2014 found on page 9 of Ms. Young's testimony. In addition, the Company has said
15 the cost per mile is declining; therefore, using the last actual rate per mile may
16 overstate the cost. My cost per mile calculation is based on the combined cost for
17 vegetation management, which includes tree trimming, enhanced tree trimming and
18 mowing. Should the Commission want to address only the scheduled tree trimming
19 instead of an overall cost for vegetation management, I have performed that
20 calculation.

21

1 **Q. WHAT WOULD YOUR ALTERNATIVE RECOMMENDATION BE IF YOU**
2 **USE ONLY THE TREE TRIMMING COSTS AND NUMBER OF MILES**
3 **SUBJECT TO TRIMMING?**

4 A. The response to OPC Interrogatory No. 117 indicates the 2014 tree trimming cost
5 alone is \$8,261,622. Multiplying the actual cost per mile for tree trimming from 2012
6 of \$4,646.74 ($\$7,980,303/1,717.4$) by the projected 1,575.2 miles the Company has
7 indicated will be trimmed in 2014 results in a cost of \$7,319,537. The difference is a
8 reduction of \$942,085 for tree trimming alone.

9

10 **Q. ARE THERE ANY OTHER RECOMMENDATIONS WITH RESPECT TO**
11 **TREE TRIMMING THAT YOU WOULD LIKE TO MAKE?**

12 A. Yes. In past years, the Company has not expended the amount allowed in rates. If
13 the Company does not expend the level of tree trimming allowed by the Commission,
14 the Company should record a regulatory liability for any unexpended funds and
15 utilize that in subsequent years.

16

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

18 A. Yes.

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DIRECT TESTIMONY

OF

DONNA RAMAS

On Behalf of the Office of Public Counsel

Before the

Florida Public Service Commission

Docket No. 130040-EI

INTRODUCTION

Q. WHAT IS YOUR NAME, OCCUPATION AND BUSINESS ADDRESS?

A. My name is Donna Ramas. I am a Certified Public Accountant licensed in the State of Michigan and Principal at Ramas Regulatory Consulting, LLC, with offices at 4654 Driftwood Drive, Commerce Township, Michigan 48382.

Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION?

A. Yes, I have testified before the Florida Public Service Commission (“PSC” or “Commission”) on several prior occasions. I have also testified before several other state regulatory commissions.

Q. HAVE YOU PREPARED AN EXHIBIT DESCRIBING YOUR QUALIFICATIONS AND EXPERIENCE?

A. Yes. I have attached Exhibit DMR-1, which is a summary of my regulatory experience and qualifications.

1 **Q. ON WHOSE BEHALF ARE YOU APPEARING?**

2 A. I am appearing on behalf of the Citizens of the State of Florida (“Citizens”) for the Office
3 of Public Counsel (“OPC”).

4
5 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

6 A. I am presenting OPC's overall recommended revenue requirement for Tampa Electric
7 Company (“Tampa Electric” or “Company”) in this case. I also sponsor several
8 adjustments to the Company's proposed rate base and operating income.

9
10 **Q. ARE ANY ADDITIONAL WITNESSES APPEARING ON BEHALF OF THE
11 FLORIDA OFFICE OF PUBLIC COUNSEL IN THIS CASE?**

12 A. Yes. Helmuth W. Schultz, III, of Larkin & Associates, PLLC, is presenting testimony on
13 several issues which impact the revenue requirements. Jacob Pous’ testimony addresses
14 the appropriate amortization rate to apply to software included in Tampa Electric’s test
15 year rate base and presents the adjustment needed to reflect his recommendation. Kevin
16 O’Donnell’s testimony addresses the appropriate capital structure for purposes of
17 determining the revenue requirements of Tampa Electric in this case as well as the
18 financial integrity of Tampa Electric taking into consideration the recommendations
19 made by OPC’s witnesses in this case. Dr. Randall Woolridge presents Citizens’
20 recommended rate of return on equity in this case using the capital structure
21 recommended by Mr. O’Donnell, and the appropriate rate of return on equity if Tampa
22 Electric’s proposed capital structure is adopted by the Commission.

23
24 **Q. HOW WILL YOUR TESTIMONY BE ORGANIZED?**

1 A. I first present the overall financial summary for the base rate change, showing the
2 primary revenue requirement recommended by Citizens. I then discuss several of my
3 proposed adjustments which impact the test year revenue requirements. Exhibit DMR-2
4 presents the schedules and calculations in support of this section of my testimony.

5
6 I then present the outcome of an alternative revenue requirement using Tampa Electric’s
7 proposed capital structure instead of the capital structure recommended by OPC in this
8 case. The calculations of the alternative revenue requirement are presented in Exhibit
9 DMR-3.

10

11 OVERALL FINANCIAL SUMMARY

12 **Q. PLEASE DISCUSS THE EXHIBIT YOU PREPARED IN SUPPORT OF YOUR**
13 **TESTIMONY AS IT PERTAINS TO OPC’S PRIMARY RECOMMENDATION.**

14 A. Exhibit DMR-2, totaling 12 pages, consists of Schedules A-1, A-2, B-1, C-1 through C-6,
15 and D.

16

17 Schedule A-1 presents the revenue requirement calculation, giving effect to all of the
18 adjustments I am recommending in this testimony, along with the impacts of the
19 recommendations made by Citizens’ witnesses Schultz, Pous, O’Donnell and Woolridge.

20 Schedule B-1 presents OPC’s adjusted rate base and identifies each of the adjustments
21 impacting rate base that are recommended by Citizens’ witnesses in this case. OPC’s
22 adjustments to net operating income are listed on Schedule C-1. Schedules C-2 through
23 C-6 provide supporting calculations for the adjustments I am sponsoring to net operating
24 income, which are presented on Schedule C-1.

1 **Q. WOULD YOU PLEASE DISCUSS SCHEDULE D?**

2 A. Schedule D presents Citizens' recommended capital structure and overall rate of return,
3 based on the revisions to Tampa Electric's proposed debt-to-equity ratio recommended
4 by Mr. O'Donnell and the rate of return on equity recommended by Dr. Woolridge. The
5 capital structure ratios are based on the ratios recommended by Mr. O'Donnell; however,
6 the capital structure dollar amounts differ, as I have applied the adjustments to the capital
7 structure necessary to synchronize Citizens' recommended rate base with the overall
8 capital structure. On Schedule D, I then applied Dr. Woolridge's recommended cost rates
9 to the recommended capital ratios, resulting in OPC's overall recommended rate of return
10 of 5.66%.

11

12 **Q. WHAT IS THE RESULTING REVENUE REQUIREMENT FOR TAMPA**
13 **ELECTRIC COMPANY?**

14 A. As shown on Exhibit DMR-2, Schedule A-1, OPC's recommended adjustments in this
15 case result in a recommended revenue reduction for Tampa Electric of \$5,589,000. This
16 is \$140.429 million less than the \$134.84 million base rate increase requested by Tampa
17 Electric in its filing.

18

19 REVENUE EXPANSION FACTOR

20 **Q. WHAT IS THE PURPOSE OF YOUR EXHIBIT DMR-2, SCHEDULE A-2,**
21 **"REVENUE EXPANSION FACTOR"?**

22 A. In determining the amount of change in revenues to achieve a specific required change in
23 net operating income, it is necessary to apply the revenue expansion factor. The revenue
24 expansion factor is also sometimes called the Net Operating Income Multiplier or the
25 Gross Revenue Conversion Factor. This gross-up or revenue expansion factor is needed

1 because a portion of every additional dollar of revenue collected by Tampa Electric will
2 go to regulatory assessment, state income taxes and federal income taxes. Additionally, a
3 portion of additional revenues would also be considered uncollectible. In its filing,
4 Tampa Electric has included a Revenue Expansion Factor of 1.63220, which was
5 calculated on its MFR Schedule C-44. This Revenue Expansion Factor is applied to
6 Tampa Electric's projected net operating income deficiency in determining the amount of
7 revenue increase shown on Tampa Electric's MFR Schedule A-1.

8

9 Later in this testimony, I recommend that the projected test year bad debt rate (or
10 uncollectible rate) be reduced from the rate of 0.185% incorporated in Tampa Electric's
11 filing to a rate of 0.122%. As shown on Exhibit DMR-2, page 2 (Schedule A-2),
12 incorporating the revised bad debt rate in the calculation of the revenue expansion factor
13 reduces the factor from the 1.63220 rate used by Tampa Electric to 1.63117. This revised
14 revenue expansion factor is used on Exhibit DMR-2, Schedule A-1 in calculating OPC's
15 recommended reduction in revenues.

16

17 RECOMMENDED ADJUSTMENTS

18 **Q. WOULD YOU PLEASE DISCUSS EACH OF YOUR SPONSORED**
19 **ADJUSTMENTS TO TAMPA ELECTRIC'S FILING?**

20 A. Yes, I will address each adjustment I am sponsoring below.

21

22 Other Operating Revenues – Calpine Contract Adjustment

23 **Q. WHAT AMOUNT IS INCLUDED IN THE TEST YEAR FOR OTHER**
24 **ELECTRIC REVENUES?**

1 A. MFR Schedule C-5 shows at lines 26 and 29 that the unadjusted test year Other Electric
2 Revenues in Federal Energy Regulatory Commission (“FERC”) Account 456 – Other
3 Electric Revenues are \$19,890,000 (\$18,757,000 jurisdictional) and the adjusted test year
4 jurisdictional amount is \$11,248,000. The test year jurisdictional balance on MFR
5 Schedule C-5 was reduced by \$3,969,000 for a “Calpine Contract Adjustment” and
6 \$3,540,000 for an “Auburndale Wheeling Revenue” adjustment.

7

8 **Q. HOW DO OTHER ELECTRIC REVENUES PROJECTED FOR 2014 COMPARE**
9 **TO PRIOR PERIODS?**

10 A. Tampa Electric’s response to OPC Interrogatory No. 122 shows that the Other Electric
11 Revenues were \$17,694,000 in 2009, \$20,041,000 in 2010, \$24,433,000 in 2011, and
12 \$25,777,000 in 2012. The adjusted test year balance of Other Electric Revenues in FERC
13 Account 456 of \$11,248,000 is substantially lower than the amount recorded in prior
14 periods.

15

16 **Q. WOULD YOU PLEASE DISCUSS THE ADJUSTMENT MADE BY TAMPA**
17 **ELECTRIC TO REMOVE CALPINE TRANSMISSION REVENUES FROM THE**
18 **TEST YEAR?**

19 A. Yes. At page 47 of the direct testimony of Tampa Electric witness Jeffrey Chronister, he
20 indicates that the Calpine Purchase Power Agreement (“PPA”) is set to expire at the end
21 of May 2014, and that “Tampa Electric has not been informed that any portion of that
22 526 MW transmission agreement will be extended beyond that date.” As a result, the
23 Company removed \$3,969,000 from the test year jurisdictional Other Operating
24 Revenues on MFR Schedule C-2, page 3 of 7. The \$3,969,000 adjustment removes the
25 revenues included in the unadjusted test year for January through May, 2014. At page

1 47, Mr. Chronister also proposes that the transmission revenues from Calpine for the first
2 five months of the test year (i.e., January through May) be spread over a 12-month period
3 and credited back to customers through the fuel clause.

4

5 **Q. HAS TAMPA ELECTRIC PROVIDED ANY UPDATED INFORMATION**
6 **REGARDING WHETHER THE TRANSMISSION AGREEMENT WITH**
7 **CALPINE WILL BE EXTENDED BEYOND THE MAY 2014 EXPIRATION**
8 **DATE?**

9 A. Yes. OPC Interrogatory No. 64(b) asked the Company to explain why it was not
10 anticipated that the Calpine PPA will be extended or renewed after the current expiration
11 date in May 2014. The response, filed on May 20, 2013, indicated as follows:

12 Calpine owns two generating plants connected to a Tampa Electric
13 substation. The Osprey Energy Center is a 526 MW combined cycle unit
14 and the Auburndale Peaker Energy Center is a 135 MW peaking unit.
15 Calpine currently sells 350 MW of firm power to Seminole Electric under
16 a PPA that ends May 31, 2014. They also sell 117 MW to Tampa Electric
17 under a PPA that ends December 31, 2016. Calpine has two, long-term,
18 firm transmission service reservations on the Tampa Electric transmission
19 system. One is for 249 MW on a path to Duke and the other is for 277
20 MW on a path to FPL. The original TSA for these reservations ends May
21 31, 2014, and to date Calpine has not committed to roll over the service as
22 Seminole Electric has indicated that they will not continue their PPA with
23 Calpine past that time. Calpine is the customer of record and has the right
24 to roll either or both of these reservations over, for the full MW amount of
25 each reservation or for some amount less. The customer must make the
26 roll over request on OASIS one year or more prior to the services'
27 termination (May 31, 2013). At this time, Tampa Electric is not aware if
28 the contract will be rolled over, and if so for how many MW.

29 Subsequently, in response to OPC Interrogatory No. 124 filed on June 24, 2013, the
30 Company indicated that Calpine recently committed to 249 MW for calendar year 2014.
31 Thus, the agreement has apparently been extended with the annual load commitment
32 declining from 526 MW to 249 MW.

1 **Q. DID THE COMPANY’S FILING ENVISION UPDATING THE OTHER**
2 **ELECTRIC REVENUES?**

3 A. Yes. Mr. Chronister states at page 47 of his testimony that “[i]f Calpine or Auburndale
4 extend or partially extend their agreements, the company will calculate the appropriate
5 amount of associated revenues and appropriately pro forma adjust them back to
6 revenues.”

7
8 **Q. DO YOU RECOMMEND THAT TEST YEAR OTHER ELECTRIC REVENUES**
9 **BE ADJUSTED TO REFLECT THE REVENUES THAT WILL BE RECEIVED**
10 **FROM CALPINE DURING THE TEST YEAR UNDER THE NEW**
11 **AGREEMENT?**

12 A. Yes. While the Company provided the new Calpine commitment amount of 249 MW in
13 response to OPC Interrogatory No. 124, it did not provide the amount of test year
14 revenues that result from the new commitment. Based on the statement in Mr.
15 Chronister’s testimony, I assume that Tampa Electric will provide the updated
16 information reflecting the revenues. Since that information has not yet been provided by
17 Tampa Electric, Exhibit DMR-2, Schedule C-2 estimates the revenue that would result
18 from the new Calpine Transmission Service Agreement (“TSA”) as \$4,509,267. As
19 indicated above, included in the unadjusted test year was \$3,969,000 in Calpine
20 transmission revenues on a jurisdictional basis for a 526 MW commitment for five
21 months (January – May 2013). These amounts were then used to estimate the revenues
22 for a twelve-month period based on a 249 MW commitment on Exhibit DMR-2,
23 Schedule C-2. Since Tampa Electric’s MFR Schedule C-2, page 3 and MFR Schedule C-
24 5 identify the Calpine contract revenues as being jurisdictional amounts, I applied a
25 jurisdictional separation factor of 1.000 to the resulting adjustment on Exhibit DMR-2,

1 Schedule C-1. It is not clear why these amounts are reflected by the Company as
2 jurisdictional revenues in its filing; however, I have reflected the amount provided as
3 jurisdictional at this time, consistent with how it is presented in Tampa Electric's filing.

4

5 The estimated revenues of \$4,509,267 assume that the 249 MW commitment is in place
6 for the entire 2014 test year. However, Mr. Chronister's testimony indicated at page 47
7 that the 526 MW TSA is set to expire at the end of May 2014. It is not clear from the
8 information provided by Tampa Electric if the original commitment for 526 MW remains
9 in place through May 2014. If that is the case, then I recommend that the additional
10 transmission revenues for the first five months of the test year that exceed the amount to
11 be incorporated in base rates (i.e., the difference between the revenues from the 526 MW
12 commitment compared to the new 249 MW commitment) be credited to the fuel clause
13 and spread out over a 12-month period, similar to Mr. Chronister's recommendation.

14

15 **Q. IS THERE A COMPELLING REASON FOR INCLUDING THE KNOWN**
16 **TRANSMISSION REVENUES IN BASE RATES AS OPPOSED TO**
17 **TRANSFERING THEM AS A CREDIT TO THE FUEL CLAUSE?**

18 A. Yes. The transmission revenues impact the jurisdictional separation factors. Thus, they
19 should be included in calculating the jurisdictional separation factors in this case. This is
20 discussed in further detail later in this testimony.

21

22 Other Operating Revenues – Auburndale Wheeling Revenue

23 **Q. YOU PREVIOUSLY INDICATED THAT TAMPA ELECTRIC COMPANY**
24 **REDUCED THE JURISDICTIONAL TEST YEAR OTHER ELECTRIC**

1 **REVENUES BY \$3,540,000 TO REMOVE “AUBURDALE WHEELING**
2 **REVENUE.” WHY WAS THIS ADJUSTMENT MADE BY TAMPA ELECTRIC?**

3 A. According to Mr. Chronister at page 47 of his direct testimony, the wheeling revenues
4 associated with the Auburndale PPA with Progress Energy Florida were removed from
5 the test year because “Auburndale was recently sold to Quantum Energy and the contract
6 is not expected to be renewed when it expires at the end of 2013.” The response to OPC
7 Interrogatory No. 64 indicates that the grandfathered TSA with Auburndale Power
8 Partners (the transmission customer of record) to deliver the Auburndale Purchase Power
9 to the border of Duke Energy Florida (previously Progress Energy Florida) may terminate
10 sooner than August 4, 2024 should the Duke Energy Florida PPA terminate. The
11 response also indicates that Auburndale Power Partners told Tampa Electric, through
12 discussions, that it has been told that Duke Energy Florida intends to terminate the PPA
13 at the end of 2013 and that it does not desire to extend the contract past December 31,
14 2013. The subsequent response to OPC Interrogatory No. 124 indicates that, as of the
15 date of the response (June 24, 2013), there is no change to the Auburndale commitment
16 and there is no indication from Auburndale Power Partners that this will change.

17
18 **Q. ARE YOU RECOMMENDING AN ADJUSTMENT TO PLACE THE REVENUES**
19 **BACK INTO THE TEST YEAR?**

20 A. No, not at this time. However, Mr. Chronister indicated at page 47 of his direct
21 testimony that if Auburndale extends or partially extends their agreement “...the
22 company will calculate the appropriate amount of associated revenues and appropriately
23 pro forma adjust them back to revenues.” Thus, if circumstances change and Tampa
24 Electric is informed that either the grandfathered TSA is being extended or rolled over
25 into an Open Access Transmission Tariff (“OATT”) point-to-point TSA, then the

1 resulting revenues should be adjusted into the test year. On Exhibit DMR-2, Schedule C-
2 1, page 2 of 2, I have included a line for the Auburndale transmission agreement revenues
3 with the amount shown as “unknown” at this time. The impact of such change, if it
4 occurs, should also be reflected in the calculation of the jurisdictional separation factors
5 in this case.

6

7 Jurisdictional Separation Factors

8 **Q. HAVE THE ADJUSTMENTS MADE BY THE COMPANY TO REMOVE THE**
9 **TRANSMISSION SERVICE AGREEMENTS IMPACTED THE**
10 **JURISDICTIONAL SEPARATION FACTORS?**

11 A. Yes. For example, the jurisdictional separation factor for transmission operating expense
12 has gone from 82.2945% in the 2012 test period to 98.585% in the 2014 test year.
13 Additionally, the jurisdictional separation factor for transmission plant has gone from
14 81.2936% in the 2012 historic test period to 98.4887% in the 2014 test year. This shifts
15 more costs associated with the transmission plant and operations onto retail customers.
16 The response to OPC Interrogatory No. 54 indicates that the adjustments made to remove
17 the load effects of the Auburndale Power Partners and the Calpine TSA have caused the
18 large increase in the transmission jurisdictional separation factors.

19

20 In fact, the direct testimony of Tampa Electric witness William Ashburn at pages 17 and
21 18 indicates that the load effects of the Auburndale Power Partners and Calpine TSA
22 have been removed from the jurisdictional separation study for the 2014 test year and that
23 the removal “. . . best reflects the appropriate jurisdictional separation effects on retail
24 revenue requirement measurement for the test year and going forward.” Mr. Ashburn’s
25 testimony also indicates that each of these transmission customers has the option to

1 request rollover of the existing contracts before they end and that if such a request is
2 made and either the existing contract is extended or a new contract is created during the
3 pendency of the case, “. . . Tampa Electric is prepared to reflect that change, for whatever
4 portion of their existing contracted capacity that they secure for extension, in revised
5 transmission separation factors.”

6

7 **Q. HAS EITHER OF THE CONTRACTS BEEN EXTENDED OR REVISED?**

8 A. Yes. As previously mentioned, Calpine recently committed to a 249 MW TSA for
9 calendar year 2014.

10

11 **Q. HAS TAMPA ELECTRIC PROVIDED THE IMPACT OF THE NEW CALPINE**
12 **COMMITMENT ON THE JURISDICTIONAL SEPARATION FACTORS**
13 **CONTAINED IN ITS FILING?**

14 A. Yes, in part. In response to OPC Interrogatory No. 124, the Company provided the
15 jurisdictional allocation factors under three scenarios. The first scenario was based on the
16 original filing amount with all load responsibility removed for Calpine and Auburndale
17 Power Partners. The second scenario reflected the removal of the pro forma adjustments
18 and the inclusion of the 526 MW load responsibility for Calpine included for January
19 through May 2014, as well as the inclusion of the 132 MW load responsibility for
20 Auburndale Power Partners for the full test year. The third scenario provided updated
21 information based on Tampa Electric’s most recent forecast, which included Calpine’s
22 monthly load responsibility of 249 MW for the entire year and no load responsibility for
23 Auburndale Power Partners. The factors under each scenario were provided by broad
24 categories (i.e., operations and maintenance (“O&M”) expense, depreciation expense,
25 taxes other than income, income tax, other expenses, plant in service, Plant Held for

1 Future Use (“PHFFU”), working capital, construction work in progress (“CWIP”), fuel
2 inventory and depreciation reserve) instead of by FERC account. While the new factors
3 were provided under the updated forecast, the impact on the filing and on the revenue
4 requirement contained in the filing was not provided.

5

6 **Q. HAVE YOU ESTIMATED THE IMPACT OF THE MOST RECENT FORECAST**
7 **OF JURISDICTIONAL SEPARATION FACTORS PROVIDED BY TAMPA**
8 **ELECTRIC COMPANY ON THE FILING?**

9 A. Yes. Since the most recent forecast of the jurisdictional separation factors was provided
10 by broad category in Tampa Electric’s response to OPC Interrogatory No. 124 instead of
11 by FERC account, I have calculated the estimated impact of the revised factors by rate
12 base and net operating income categories on OPC’s recommended adjusted test year rate
13 base on Exhibit DMR-2, Schedule B-1 and on OPC’s recommended adjusted test year net
14 operating income on Exhibit DMR-2, Schedule C-1. As shown on each of these pages,
15 the revised jurisdictional amounts were determined by dividing OPC’s adjusted
16 jurisdictional balance for each item (which used the jurisdictional allocation factors
17 applied by Tampa Electric in its filing) by the jurisdictional separation factor contained in
18 the original filing, and then multiplying the resulting balance by the revised jurisdictional
19 separation factor provided by Tampa Electric.

20

21 For example, the response to OPC Interrogatory No. 124 shows that the original 2014
22 jurisdictional separation study used in the filing included a retail factor of 98.7455%
23 applied to PHFFU, and the retail factor for PHFFU based on the inclusion of Calpine’s
24 revised committed capacity is 93.7949%. The amount of jurisdictional PHFFU contained
25 in Tampa Electric’s filing, which was not adjusted by OPC, was \$35,409,000. This is

1 shown on Exhibit DMR-2, page 3 (Schedule B-1). Under the revised jurisdictional
2 separation factor, the amount of jurisdiction PHFFU would be \$33,634,000, or
3 \$1,775,000 less than the amount in Tampa Electric's filing. The revised amount is
4 calculated as: $\$35,409,000 / 98.7445\%$ retail jurisdictional factor in the original filing x
5 93.7949% updated retail jurisdictional factor ($\$35,409,000 / 98.7445\% \times 93.7949\% =$
6 $\$33,634,000$).

7

8 Additionally, on Exhibit DMR-2, Schedule A-1, I present two separate columns for
9 OPC's recommended revenue requirements. Column B of Schedule A-1 is based on the
10 jurisdictional separation factors contained in the Company's filing. Column C of
11 Schedule A-1 is based on the estimated amounts that would result from the application of
12 the updated forecast of the jurisdictional separation factors. Thus, OPC's recommended
13 revenue requirement is presented based on the original jurisdictional separation factors
14 contained in Tampa Electric's filing and as estimated based on the revised jurisdictional
15 separation factors that incorporate the new Calpine commitment.

16

17 Industrial Revenues

18 **Q. ARE YOU RECOMMENDING ANY ADJUSTMENTS TO THE AMOUNT OF**
19 **REVENUES FROM SALES IN THE 2014 TEST YEAR?**

20 A. Yes. According to Tampa Electric's response to OPC Interrogatory No. 62, there was
21 stronger customer growth in the General Services rate class in 2012 than expected. The
22 response to OPC Interrogatory No. 121 indicates that the impact of the higher level of GS
23 customers is estimated to be approximately \$35,000 per year. I have reflected the
24 projected \$35,000 increase in revenues on Exhibit DMR-2, Schedule C-1.

25

1 Outside Services – Pole Attachment Litigation Expense

2 **Q. DO YOU RECOMMEND ANY ADJUSTMENTS TO THE PROJECTED TEST**
3 **YEAR OUTSIDE SERVICES EXPENSE?**

4 A. Yes. Company MFR Schedule C-16, revised on May 17, 2013, shows that the Company
5 has projected a significant increase in outside profession services expenses for the test
6 year in the legal area. The schedules shows actual 2012 outside services legal expenses
7 recorded in various O&M expense accounts as \$1,861,000 and a projected test year
8 expense of \$4,116,000. The response to OPC Interrogatory No. 119 indicates that the
9 Company budgeted a \$2,255,000 increase in legal costs between 2012 and 2014. Of the
10 \$2,255,000 increase, \$733,333 is for the amortization of rate case legal expense,
11 \$520,000 for incremental Energy Delivery costs associated with pending litigation with
12 Verizon regarding pole attachment charges, and \$560,000 associated with long-term fuel
13 commodity and fuel transportation contracts that are expiring. Once the rate case legal
14 costs of \$733,333 are removed, the increase in the test year is \$1,521,667 or 82% above
15 the 2012 actual level. I recommend that the \$520,000 included in projected test year
16 expenses for the pending litigation with Verizon regarding pole attachment charges be
17 removed. The removal is shown on Exhibit DMR-2, Schedule C-1, page 2.

18
19 **Q. WHY DO YOU RECOMMEND THAT THE AMOUNT INCLUDED IN THE**
20 **TEST YEAR FOR PENDING LITIGATION WITH VERIZON BE REMOVED?**

21 A. First, the charges are not likely to be recurring in nature. Thus, I recommend they be
22 excluded from the test year used to set future rates in this case. No evidence has been
23 provided to demonstrate that the significant increase in the test year is reflective of a
24 normal, on-going level of outside services legal expenses. Second, presumably the
25 litigation may result in additional revenues being recovered by Tampa Electric and, to the

1 best of my knowledge, the potential additional revenues have not been included in the
2 test year. Thus, the costs of the pending litigation are not matched with the benefits of
3 the litigation. While the Company's response to OPC Interrogatory No. 119 provided no
4 information regarding the pending litigation beyond the statement that the \$520,000
5 consists of ". . . incremental Energy Delivery costs associated with pending litigation
6 with Verizon regarding pole attachment charges, . . .", I do note that an October 26, 2012
7 article in The Tampa Tribune indicates that Tampa Electric filed suit against Verizon in
8 circuit court in October 2012 regarding pole attachments, and that Tampa Electric is
9 seeking \$4.2 million in damages.

10

11 TECO Energy, Inc. Charges to Tampa Electric

12 **Q. WHAT SERVICES ARE PROVIDED TO THE COMPANY FROM TECO**
13 **ENERGY, INC.?**

14 A. According to MFR Schedule C-30 and Tampa Electric's response to Staff Interrogatory
15 No. 38, TECO Energy, Inc. ("TECO Energy") provides the following services to Tampa
16 Electric: Management Services, Legal and Governmental Affairs, State and Community
17 Relations, Finance, Business Strategy and Compliance, Human Resources & Benefits,
18 and General Corporate Responsibility. These costs are incurred at the TECO Energy
19 level and are then directly charged and allocated to Tampa Electric and other affiliates.

20

21 **Q. HOW MUCH HAS TAMPA ELECTRIC INCLUDED IN THE PROJECTED**
22 **TEST YEAR ENDING ON DECEMBER 31, 2014 FOR THE SERVICES FROM**
23 **TECO ENERGY?**

24 A. In its filing, Tampa Electric projected that the charges from TECO Energy would be
25 \$28,196,000 in the test year. In response to Staff Interrogatory No. 38, Tampa Electric

1 provided a breakdown of the \$28,196,000 as follows: Management Services of
2 \$2,678,840; Legal and Governmental Affairs of \$3,365,797; State and Community
3 Relations of \$108,690; Finance of \$6,935,586; Business Strategy and Compliance of
4 \$3,023,575; Human Resources & Benefits of \$9,393,827; and General Corporate
5 Responsibility of \$2,690,062. Of the \$28,196,000, \$8,549,000 is for labor costs and
6 \$19,647,000 is for non-labor costs. Based on the response to OPC Interrogatory No. 125,
7 \$27,754,000 of TECO Energy's \$28,196,000 in projected charges is reflected in FERC
8 Account 930 – Miscellaneous General Expenses in Tampa Electric's filing.

9

10 **Q. IS THE PROJECTED LEVEL OF COSTS CHARGED TO TAMPA ELECTRIC**
11 **FROM TECO ENERGY DURING THE TEST YEAR CONSISTENT WITH THE**
12 **LEVEL HISTORICALLY CHARGED TO TAMPA ELECTRIC?**

13 A. No. The level of expenses projected to be charged from TECO Energy is substantially
14 higher in the projected test year than the actual amounts historically charged to Tampa
15 Electric. The amount of charges from TECO Energy to Tampa Electric that were booked
16 to expense in each year were \$22,733,000 in 2008, \$23,111,000 in 2009, \$22,304,000 in
17 2010, \$21,895,000 in 2011, and \$24,148,000 in 2012. The amount of charges from
18 TECO Energy that is included in Tampa Electric's projected test year expenses of
19 \$28,196,000 is 16.8% higher than the actual amount booked in 2012 and 28.8% higher
20 than the amount booked in 2011.

21

22 **Q. WHAT FACTORS ARE CAUSING THIS SIGNIFICANT PROJECTED**
23 **INCREASE IN COSTS CHARGED FROM TECO ENERGY IN THE TEST**
24 **YEAR?**

1 A. In explaining the various causes of the projected increase in the amount of expense
2 recorded in Account 930 – Miscellaneous General Expenses between 2012 and the 2014
3 test year, in response to OPC Interrogatory No. 50(c), Tampa Electric indicated that \$4.0
4 million of the increase in the account was due to higher allocations from TECO Energy
5 due to a higher allocation percentage to Tampa Electric and salary increases. TECO
6 Energy assumed a three percent increase in salaries, which amounted to approximately
7 \$300,000 in additional salary expense allocated to Tampa Electric. (Response to OPC
8 Interrogatory No. 126) Thus, most of the increased charges from TECO Energy to
9 Tampa Electric that are reflected in the 2014 test year result from the application of a
10 higher allocation percentage of TECO Energy costs going to Tampa Electric.

11

12 **Q. HAS THE COMPANY EXPLAINED WHY THE PERCENTAGE OF TECO**
13 **ENERGY COSTS BEING CHARGED TO TAMPA ELECTRIC WAS**
14 **PROJECTED TO INCREASE?**

15 A. Yes. In response to OPC Interrogatory No. 126(d), Tampa Electric provided the
16 following explanation:

17 The allocation percentage to Tampa Electric is projected to increase in
18 2014 due to the sale of TECO Guatemala in late 2012 (TECO Guatemala
19 is no longer receiving a portion of the allocation), as well as a decrease in
20 the allocation to the other affiliates, caused by lower projected revenue,
21 net income and operating assets in 2014, which is the basis for the
22 allocation rates. The allocation rates are calculated based on each
23 subsidiary's relative share of total revenue, net income and operating
24 assets, therefore, a change in other subsidiaries' inputs, could impact the
25 allocation received by Tampa Electric.

26

27 In response to OPC POD No. 86, the Company provided workpapers showing how the
28 allocation factors used for charging costs from TECO Energy to Tampa Electric were
29 derived for each year, from 2009 through March 2013. A confidential document also
30 provided with the response contained the calculation of the projected allocation factor for

1 the 2014 test year that was used in projecting the amounts contained in Tampa Electric's
2 2014 Business Plan that would presumably be the factors used in preparing Tampa
3 Electric's filing.

4

5 The allocation factors are based on a three-factor approach based on each subsidiary's
6 share of total assets, total unconsolidated revenues, and operating income. Each of the
7 three factors are weighted equally in determining the blended allocation factor that is
8 applied to the TECO Energy costs that are allocated to the subsidiaries, including Tampa
9 Electric. The allocation factor for TECO Guatemala was 5.42% based on the twelve
10 months ended November 30, 2009; 7.11% based on the twelve months ended November
11 30, 2010; 4.49% based on the twelve months ended November 30, 2011; and 5.21%
12 based on the twelve months ended September 30, 2012. (Response to OPC POD No. 86
13 – non-redacted portion). Tampa Electric indicated that the disposition of one or more
14 affiliated subsidiaries would not necessarily result in a proportionate decrease in
15 overhead, corporate-level type costs. Thus, the removal of TECO Guatemala from the
16 calculation of the allocation factors resulted in a higher percentage and amount of TECO
17 Energy costs being shifted to Tampa Electric in the projected test year. According to the
18 response to OPC Interrogatory No. 126(d), other assumptions made in determining the
19 2014 allocation factors with regards to the budgeted revenue, net income and operating
20 assets of Tampa Electric and the remaining subsidiaries also caused additional charges to
21 shift to Tampa Electric from other subsidiaries in the test year projections.

22

23 **Q. HAVE ANY EVENTS OCCURRED SINCE THE TIME TAMPA ELECTRIC**
24 **FILED ITS CASE THAT WOULD IMPACT THE PROJECTED TEST YEAR**
25 **CHARGES FROM TECO ENERGY?**

1 A. Yes. On May 28, 2013, TECO Energy announced an agreement to acquire New Mexico
2 Gas Company for an aggregate value of \$950 million, including the assumption of \$200
3 million of New Mexico Gas Company debt. Based on a May 28, 2013 press release from
4 TECO Energy, the transaction is expected to close in the first quarter of 2014, or early in
5 the test year. Thus, while TECO Energy has recently sold the TECO Guatemala
6 operations, it plans to acquire New Mexico Gas Company (“NMGC”). This will impact
7 the allocation of TECO Energy costs to Tampa Electric.

8

9 **Q. HAS THE COMPANY PROVIDED THE PROJECTED IMPACT OF THE**
10 **ACQUISITION OF NEW MEXICO GAS COMPANY ON CHARGES TO TAMPA**
11 **ELECTRIC FROM TECO ENERGY?**

12 A. Yes. In response to OPC Interrogatory No. 131, Tampa Electric indicated that:
13 “Assuming current revenue, income and asset levels of existing companies including
14 NMGC and using the company’s standard allocation process i.e., the modified
15 Massachusetts methodology, as well as 2014 budgeted parent costs, it is estimated that
16 the 2014 TECO Energy allocation to Tampa Electric would be reduced by approximately
17 \$2.1 million if closing were to occur in March 2014.” The response to OPC Interrogatory
18 No. 138, stated in part: “Assuming current revenue, income, asset levels, and existing
19 parent costs, the projected cost allocation reduction to Tampa Electric for 2015 through
20 2016 is estimated to be approximately \$2.9 million annually.” While OPC did ask for all
21 assumptions used in deriving the estimated impacts as well as the amounts assumed for
22 the NMGC operations in calculating the 2014 TECO Energy allocation factors in
23 Interrogatories Nos. 131 and 136, the assumptions and amounts used in estimating the
24 impacts were not provided.

1 **Q. SHOULD THE AMOUNT OF EXPENSE INCLUDED IN THE TEST YEAR FOR**
2 **CHARGES FROM TECO ENERGY BE REDUCED?**

3 A. Yes. As indicated previously in this testimony, the amount of expense included in the
4 test year for charges from TECO Energy increased significantly when compared to
5 historic levels as a result of revisions made to the projected allocation factors resulting
6 from of the sale of TECO Guatemala and other projected revisions to the allocation factor
7 calculation. At a minimum, I recommend that test year expenses be reduced by
8 \$2,900,000 to reflect the projected annual impact of the NMGC acquisition that was
9 provided by Tampa Electric. Since Tampa Electric did not provide the assumptions used
10 in revising the projected 2014 cost allocation factors, the \$2.9 million annual impact
11 provided in response to OPC Interrogatory No. 138 is the best information that has been
12 made available to date to estimate the impact on Tampa Electric's test year expenses. My
13 recommended \$2.9 million reduction to test year expenses is reflected in Exhibit DMR-2,
14 Schedule C-1.

15
16 **Q. WHY DO YOU RECOMMEND TEST YEAR EXPENSES BE REDUCED BY THE**
17 **PROJECTED ANNUAL IMPACT OF THE NMGC ACQUISITION INSTEAD OF**
18 **THE 2014 TEST YEAR IMPACT PROVIDED BY TAMPA ELECTRIC?**

19 A. There are several reasons that the annual impact should be reflected instead of the
20 projected impact for the twelve months ended December 31, 2014 (i.e., the test year).
21 The press release announcing the NMGC acquisition indicates that it is expected to close
22 in the first quarter of 2014. The acquisition will continue to impact charges from TECO
23 Energy for the foreseeable future after the acquisition is completed. It is also likely that
24 the new distribution base rates that will become effective as a result of this case will stay
25 in place beyond the test year ended December 31, 2014.

1 Additionally, reflecting the annual level of impact of the NMGC acquisition on the cost
2 allocations to Tampa Electric from TECO Energy will help to offset the increase in
3 charges to Tampa Electric that resulted from TECO Energy's choice to sell the TECO
4 Guatemala operations. Prior to the sale of the TECO Guatemala operations, based on the
5 twelve-month period ended September 30, 2012, the allocation percentage to Tampa
6 Electric was 68.00%. (Response to OPC POD No. 86 – non-redacted portion). After the
7 sale of the TECO Guatemala operations, the allocation percentage to Tampa Electric
8 increased to 72.3%. (Response to OPC POD No. 86 – non-redacted portion and Staff No.
9 40).

10

11 **Q. YOU PREVIOUSLY INDICATED THAT OTHER ASSUMPTIONS MADE IN**
12 **DETERMINING THE 2014 ALLOCATION FACTORS WITH REGARDS TO**
13 **THE BUDGETED REVENUE, NET INCOME AND OPERATING ASSETS OF**
14 **TAMPA ELECTRIC AND THE REMAINING SUBSIDIARIES ALSO CAUSED**
15 **ADDITIONAL CHARGES TO SHIFT TO TAMPA ELECTRIC FROM OTHER**
16 **SUBSIDIARIES IN THE TEST YEAR PROJECTIONS. WOULD YOU PLEASE**
17 **ELABORATE?**

18 A. Yes. In response to OPC Interrogatory No. 126(d), the Company indicated that the
19 allocation percentage to Tampa Electric was also projected to increase in 2014 as a result
20 of a decrease in the allocation to the other affiliates caused by a change in the other
21 subsidiaries' projected revenue, net income and operating assets. Many factors would go
22 into estimating the 2014 revenues, net income and operating assets of Tampa Electric and
23 of each of the remaining subsidiaries that are allocated costs from TECO Energy. As of
24 April 2013, which is post-TECO Guatemala sale, Tampa Electric's percentage of the
25 TECO Energy allocable costs was 72.30%, while the percentage to People's Gas was

1 13.57%, TECO Coal was 13.39% and TECO Pipeline was 0.74%. These amounts were
2 based on the revenues and net operating income for each of these entities for the twelve
3 months ended March 2013 and the operating assets of each entity as of March 31, 2013.
4 (Response to Staff Interrogatory No. 40).

5

6 ****BEGIN CONFIDENTIAL****

[REDACTED]

****END CONFIDENTIAL****

Q. DO YOU RECOMMEND AN ADDITIONAL REDUCTION TO THE PROJECTED EXPENSES ALLOCATED FROM TECO ENERGY TO TAMPA ELECTRIC IN THE TEST YEAR?

A. Yes. As previously indicated in this testimony, I recommend that test year expenses charged from TECO Energy to Tampa Electric be reduced by \$2.9 million. OPC witness Schultz recommends in his testimony that \$1,836,882 of incentive compensation costs and \$4,638,481 of stock compensation expenses charged to Tampa Electric from TECO Energy in the test year be removed. Additionally, in MFR Schedule C-2, Tampa Electric removed \$219,000 of allocated expenses from the test year associated with Stockholder Relations. As shown on Exhibit DMR-2, Schedule C-3, after each of these adjustments, \$18,601,637 of expense from TECO Energy remains in the test year. I recommend that the projected TECO Energy expenses remaining in the test year after each of the above identified adjustments be reduced by an additional \$378,082 to remove the shifting of costs from other current subsidiaries of TECO Energy to Tampa Electric in the test year. There are too many uncertainties regarding the balance of revenues, net income and operating assets of Tampa Electric and of each of the subsidiaries that are allocated costs from TECO Energy that will occur during the 2014 test year and the additional shifting of costs to Tampa Electric from the remaining subsidiaries has not been supported.

1 Uncollectible Expense

2 **Q. WHAT AMOUNT HAS TAMPA ELECTRIC INCLUDED IN THE TEST YEAR**
3 **FOR UNCOLLECTIBLE EXPENSE AND HOW WAS THAT AMOUNT**
4 **DETERMINED?**

5 A. Tampa Electric’s 2014 test year expenses include \$3,623,000 for uncollectible expense.
6 As shown on MFR Schedule C-4, page 3 of 10 and MFR Schedule C-11, the \$3,623,000
7 projected expense results in a bad debt rate incorporated in the filing of 0.185%. In
8 describing how the amount of test year uncollectible expense included in the filing was
9 determined, in its response to OPC Interrogatory No. 66, Tampa Electric indicated as
10 follows:

11 For 2013 and 2014 budget purposes, net write-offs are not broken down
12 between gross write-offs and recoveries. Tampa Electric bases budget
13 calculations first on previous year month-over-month write-off-to-revenue
14 percentages against projected revenues for the budget year. The
15 assumption is that recent write-off-to-revenue performance already
16 reflects some changes to the economic outlook and the revenue forecast
17 reflects best thinking on weather and the economy going forward.

18
19 The company has always calculated bad debt expense using the metric of
20 net write-offs as a percentage of total revenues. Trends on performance
21 versus historical data are primarily looked at using net write-offs rather
22 than gross. As a result, Tampa Electric does not have a breakdown of
23 gross write-offs and recoveries for the 2013 projected year and the 2014
24 test year.
25

26 The response did not include further details regarding the projection of the test year bad
27 debt expense.
28

29 **Q. HOW DOES THE PROJECTED TEST YEAR UNCOLLECTIBLE EXPENSE**
30 **AND BAD DEBT RATE COMPARE TO HISTORIC AMOUNTS?**

31 A. Tampa Electric’s MFR Schedule C-6, page 4, shows that the amount of expense included
32 in Account 904 – Uncollectible Accounts – Customer Accounts Expense was \$2,609,000

1 in 2011 and \$2,321,000 in 2012. The amount budgeted in each of those years was
2 \$6,465,000 and \$6,104,000, respectively. Thus, the amount of uncollectible expense
3 recorded by Tampa Electric in both 2011 and 2012 was significantly less than budgeted.
4 The amounts recorded in 2011 and 2012 were also much lower than the \$3,623,000
5 budgeted in the test year. In fact, the budgeted test year expense is 56% higher than the
6 amount recorded in 2012.

7

8 MFR Schedule C-6, page 4, does show that the amount of uncollectible expense recorded
9 in prior years, specifically from 2008 through 2010, was significantly higher than the
10 amounts recorded by Tampa Electric in 2011 and 2012.

11

12 **Q. HAVE YOU SEEN ANY INFORMATION THAT WOULD SHED LIGHT ON**
13 **THE CAUSE OF THE SIGNIFICANT REDUCTION IN UNCOLLECTIBLE**
14 **EXPENSE THAT HAS OCCURRED IN RECENT YEARS?**

15 A. Yes. In addressing 2013 year to date variances in the accumulated provision for
16 uncollectible accounts, the response to OPC Interrogatory No. 41, at page 8, indicates:
17 “The budgeted write-off percentage used to calculate additions to the reserve is higher
18 than the actual write-off percentage that has steadily decreased over time due to the
19 implementation of DebtNext. The budgeted write-off percentage is based off historical
20 trends.” Thus, based on the response, Tampa Electric has implemented DebtNext, which
21 has “steadily decreased” the percentage of write-offs it has realized. DebtNext software
22 is used by companies to manage the collection processes and to facilitate various
23 collections reporting.

1 Additionally, in explaining the actual and projected increases in the Energy Delivery
2 Area for Customer Service – Customer Records & Collection expenses, the response to
3 OPC Interrogatory No. 103, at page 13, indicates that “Beginning late in 2011, the
4 company has focused more efforts on credit-related disconnect/reconnect work
5 endeavoring to reduce its cost of bad debt.” These endeavors to reduce the cost of bad
6 debt apparently also positively impacted the level of uncollectible expense.

7

8 **Q. ARE YOU RECOMMENDING ANY REVISIONS TO THE PROJECTED TEST**
9 **YEAR UNCOLLECTIBLE EXPENSE?**

10 A. Yes. Despite the economic conditions over the past several years, Tampa Electric has
11 been able to reduce its uncollectible expense, in great part due to its implementation of
12 DebtNext and its increased focus on credit-related disconnect/reconnect work. Further,
13 considering the substantial reductions in uncollectible expense that occurred in 2011 and
14 2012, coupled with the significant amount by which Tampa Electric’s actual uncollectible
15 expenses were below the budgeted amount in both 2011 and 2012 and the significant
16 projected increase in the projected test year expense, I recommend that the projected test
17 year uncollectible expense be reduced by \$1,228,000 to \$2,395,000.

18

19 **Q. HOW WAS YOUR RECOMMENDED ADJUSTMENT DETERMINED?**

20 A. As shown on Exhibit DMR-2, Schedule C-4, I first calculated the actual 2012 percentage
21 of net write-offs realized by Tampa Electric to the 2012 Gross Revenues from Sales of
22 Electricity, which resulted in a net write-off to revenues percentage of 0.122%. I then
23 applied the 0.122% percentage of net write-offs to revenues (or the bad debt factor) to the
24 2014 test year gross revenues from sales of electricity contained in Tampa Electric’s
25 filing in determining the adjusted test year uncollectible expense of \$2,395,000. This is

1 \$1,228,000 less than the test year uncollectible expense incorporated in Tampa Electric's
2 filing. I also recommend that the resulting bad debt factor of 0.122% be used in
3 determining the revenue expansion factor discussed previously in this testimony.

4

5 **Q. WHY ARE YOU RECOMMENDING THAT THE BAD DEBT RATE AND THE**
6 **RESULTING UNCOLLECTIBLE EXPENSE BE BASED ON THE 2012**
7 **PERCENTAGE OF NET WRITE-OFFS TO REVENUES INSTEAD OF A BAD**
8 **DEBT RATE BASED ON A HISTORIC AVERAGE?**

9 A. Since the amount of uncollectible expense and the associated ratio of net write-offs to
10 revenues often varies from year to year, in many situations I would recommend that the
11 projected expense be based on a historic average ratio of net write-offs to revenues.
12 However, if changes have been implemented by a utility that significantly impact the
13 level of uncollectible expense, then an approach that differs from the use of a historic
14 average may be appropriate and more reasonable. This is true for Tampa Electric. As
15 indicated previously, the amount of uncollectible expense has declined substantially for
16 Tampa Electric in 2011 and 2012 when compared to the amounts recorded in 2008
17 through 2010. The amount of uncollectible expense was also substantially lower than
18 budgeted in both 2011 and 2012. Tampa Electric has also indicated that it implemented
19 DebtNext, which has impacted the actual write-off percentage and continues to impact
20 the level of write-offs, as well as taken other actions to reduce the amount of bad debt.
21 Thus, based on the current facts and circumstances for Tampa Electric, I recommend that
22 the test year uncollectible expense and test year bad debt rate be based on the actual 2012
23 ratio of net write-offs to revenues.

1 Income Tax Expense

2 **Q. HAVE YOU ADJUSTED INCOME TAX EXPENSE TO REFLECT THE IMPACT**
3 **OF THE ADJUSTMENTS SPONSORED BY CITIZENS' WITNESSES TO NET**
4 **OPERATING INCOME?**

5 A. Yes. On Exhibit DMR-2, Schedule C-5, I calculate the impact of federal and state
6 income tax expenses resulting from the recommended adjustments to operating expenses.
7 The result is carried forward to the Net Operating Income Summary on Exhibit DMR-2,
8 Schedule C-1.

9

10 Interest Synchronization

11 **Q. WHAT IS THE PURPOSE OF YOUR INTEREST SYNCHRONIZATION**
12 **ADJUSTMENT ON EXHIBIT DMR-2, SCHEDULE C-6?**

13 A. The interest synchronization adjustment allows the adjusted rate base and cost of debt to
14 coincide with the income tax calculation. Since interest expense is deductible for income
15 tax purposes, any revisions to the rate base or to the weighted cost of debt will impact the
16 test year income tax expense. OPC's proposed rate base and weighted cost of debt differ
17 from the Company's proposed amounts. Thus, OPC's recommended interest deduction
18 for determining the 2014 test year income tax expense will differ from the interest
19 deduction used by Tampa Electric in its filing. Consequently, OPC's recommended debt
20 ratio increase in this case will lead to a greater interest deduction in the income tax
21 calculation, which will in turn result in a reduction to income tax expense.

1 OVERALL FINANCIAL SUMMARY – ALTERNATIVE RECOMMENDATION

2 **Q. HAVE YOU CALCULATED AN ALTERNATIVE REVENUE REQUIREMENT**
3 **IN THE EVENT THE COMMISSION ADOPTS THE DEBT-TO-EQUITY RATIO**
4 **IN THE CAPITAL STRUCTURE REQUESTED BY TAMPA ELECTRIC?**

5 A. Yes. Exhibit DMR-3, totaling four pages, shows the revisions that need to be made to
6 OPC’s primary recommendation presented in Exhibit DMR-2 if the Commission adopts
7 the 2013 test year debt-to-equity ratio used by Tampa Electric for its requested overall
8 rate of return. As shown on page 1 of Exhibit DMR-3, if the Commission adopts Tampa
9 Electric’s proposed debt-to-equity ratio, the revenue requirements would result in an
10 increase of \$183,000 to Tampa Electric’s current base rates.

11
12 **Q. WHAT IS THE REVISED RATE OF RETURN RECOMMENDED BY OPC**
13 **UNDER THIS ALTERNATIVE SCENARIO?**

14 A. The overall rate of return would increase from OPC’s primary recommendation in this
15 case from 5.66% to 5.67%. Under the alternative scenario, the calculation of OPC’s
16 recommended rate of return, as well as the resulting reconciliation of OPC’s
17 recommended rate base to the capital structure, is presented on Exhibit DMR-3, page 2 of
18 4.

19
20 OPC witness Woolridge testifies that if the Commission accepts the debt-to-equity ratios
21 presented by Tampa Electric in this case, his original recommended rate of return on
22 equity should be reduced from his primary recommendation of 9.0%, based on OPC’s
23 proposed capital structure, to 8.75%. This recommended 8.75% rate of return on equity
24 is included in the calculations presented on Exhibit DMR-3, page 2 of 4.

1 **Q. WHAT ADDITIONAL MODIFICATIONS NEED TO BE MADE TO OPC'S**
2 **RECOMMENDED REVENUE REQUIREMENT CALCULATIONS UNDER**
3 **THIS ALTERNATIVE SCENARIO?**

4 A. The weighted cost of debt would change because of Tampa Electric's proposed debt-to-
5 equity ratio. Since OPC has accepted the debt cost rates incorporated in Tampa Electric's
6 capital structure calculations, the weighted cost of debt to be applied to rate base to
7 calculate the tax deductible interest expense would be the same under this scenario. The
8 only difference between Tampa Electric and OPC with regard to the interest
9 synchronization adjustment under this scenario should be because OPC is recommending
10 a lower rate base amount than Tampa Electric. Exhibit DMR-3, page 4 presents the
11 interest synchronization calculation based on OPC's recommended rate base. The result
12 of this calculation is carried forward to page 3 of Exhibit DMR-3 to determine the impact
13 on OPC's recommended net operating income resulting from the modification to the
14 interest synchronization calculation.

15

16 **Q. DOES THIS COMPLETE YOUR PREFILED TESTIMONY?**

17 A. Yes, it does.

1. INTRODUCTION, QUALIFICATIONS, AND SUMMARY

1 **Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A Jeffrey Pollock; 12647 Olive Blvd., Suite 585, St. Louis, MO 63141.

3 **Q WHAT IS YOUR OCCUPATION AND BY WHOM ARE YOU EMPLOYED?**

4 A I am an energy advisor and President of J. Pollock, Incorporated.

5 **Q PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.**

6 A I have a Bachelor of Science Degree in Electrical Engineering and a Masters in
7 Business Administration from Washington University. Since graduation in 1975, I
8 have been engaged in a variety of consulting assignments, including energy
9 procurement and regulatory matters in both the United States and several
10 Canadian provinces. My qualifications are documented in **Appendix A**. A partial
11 list of my appearances is provided in **Appendix B** to this testimony.

12 **Q ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?**

13 A I am testifying on behalf of the Florida Industrial Power Users Group (FIPUG).
14 The participating FIPUG members are customers of Tampa Electric Company
15 (TECO) who take electricity service on the General Service Demand (GSD),
16 Interruptible Service (IS) and Standby rate classes

17 **Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

18 A I am addressing TECO's proposals to:

- 19 • Consolidate the GSD and IS rate classes;
- 20 • Adopt yet another new production plant cost allocation
- 21 methodology—Twelve Coincident Peak and 50% Average
- 22 Demand (12CP-50%AD);
- 23 • Classify a portion of the distribution network as customer-

1 related; and
2 • Increase its storm reserve.

3 In addition, I am addressing:

- 4 • The design of the GSD rate schedules;
- 5 • The design of the IS rate schedules if TECO's proposed GSD-
6 IS class consolidation is rejected; and
- 7 • Test year outage expenses.

8 **Q ARE YOU SPONSORING ANY EXHIBITS?**

9 A Yes. I am sponsoring Exhibits ___ (JP-1) through ___ (JP-10).

10 **Q ARE YOU ADDRESSING EVERY ISSUE THAT MAY BE IN DISPUTE IN THIS**
11 **CASE?**

12 A No. However, the fact that I am not addressing a particular issue is not and
13 should not be interpreted as an endorsement of TECO's position.

14 **Summary**

15 **Q PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS.**

16 A My findings and recommendations are as follows:

17 **GSD-IS Consolidation**

- 18 • TECO's proposal to consolidate the GSD and IS rate classes (and
19 eliminate the IS rate schedules) should be rejected. A similar
20 proposal by TECO was rejected in TECO's last rate case. TECO has
21 provided no new evidence to support consolidation in this case.
- 22 • The GSD and IS rates classes are not homogeneous; that is, they
23 have significantly different load characteristics. This means that GSD
24 and IS should have different rate structures to reflect the
25 corresponding differences in their respective costs to serve.
- 26 • Further, contrary to Mr. Ashburn's assertions about inequities under
27 the current class rate structures, consolidating the GSD and IS
28 classes would be grossly inequitable to the IS customers. This is
29 because the IS customers would experience an 11.1% base rate
30 increase under TECO's consolidation proposal but no rate increase
31 (or a decrease) if IS remains a separate stand-alone class. The cost
32 of serving IS does not change just because it is consolidated with

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GSD.

- The so-called “transition” referred to by Mr. Ashburn ended when the interruptibility was transferred from the IS rate schedules to the GSLM Riders (which occurred in TECO’s last rate case). Under this structure, all non-firm customers are paid the same for their interruptibility, and the interruptible credits remain cost-effective under this Commission’s rules. This transition has nothing to do whatsoever with eliminating the IS rate schedules.
- The IS rate schedules should be retained at a minimum; further the Commission should consider re-opening the IS rate schedules to all eligible customers.

GSD/IS Rate Design

- Rate design is a continuation of the cost allocation process. Thus, a proper cost-based rate design should include a Customer charge that recovers customer-related costs, a Demand charge that recovers demand-related costs, and an Energy charge to recover non-fuel energy costs.
- The current GSD Energy charge is already above cost. The proposed charge would be 91% higher than the unit cost. Thus, any increase in Energy charges is unwarranted. This includes TECO’s proposal to raise the On-Peak Energy charge by 38%. Not only is this increase contrary to cost-based ratemaking, it would violate gradualism.
- To reflect cost, all of the increase allocated to the GSD class should be collected in the Basic Service and Demand charges.
- If, despite my objections, the GSD and IS classes are consolidated, the Delivery Voltage Adjustment applicable to sub-transmission service should be \$0.53 per kW higher than the credit proposed by TECO. Because the IS class takes service primarily at sub-transmission voltage, raising the credit by an additional \$0.53 would mitigate the higher rates that would result from the GSD-IS class consolidation.
- No increase should be allocated to the IS class. This class is currently providing a 1.10 parity ratio under TECO’s proposed revenue requirements. Thus, IS base rates would have to be reduced to achieve parity, something the Commission may want to consider. However, at a minimum, applying a zero increase is also consistent with Commission practice.
- The current IS Energy charge is more than 166% above cost. The current IS Demand charge is 81% below cost. Consequently, if the IS

1 class is retained, the Basic Service charge should be set to cost, the
2 Energy charge should be reduced by at least 25%, and the remaining
3 revenue requirement should be collected in the Demand charge.

4 Production Plant Allocation

5 • TECO has failed to support changing the production plant allocation
6 method to 12CP-50%AD as it proposes. This method is not
7 supported by:

8 (1) How other Florida utilities plan and operate their generation
9 systems because Duke Energy Florida (Duke), Florida Power &
10 Light Company (FPL) and Gulf Power Company (Gulf) continue to
11 use 12CP-1/13thAD, and the Commission has approved 12CP-
12 1/13thAD in their most recent rate cases.

13 (2) TECO's investment in base and intermediate load capacity, which
14 has remained relatively unchanged since its last rate case.

15 (3) TECO's plan to convert Polk Units 2-5 to combined cycle
16 generation, which won't occur until 2017 (well beyond the test
17 year) because it overlooks the load following and other reliability
18 enhancements provided by CCGTs. TECO's position is not
19 unique for Florida utilities, given that FPL has committed to add
20 over 3,800 MW of new combined cycle gas turbines (CCGTs) to
21 complement its existing nuclear and coal (base load) generation
22 fleet, yet FPL continues to support 12CP-1/13thAD.

23 (4) Minimizing the RS and GS revenue requirements, which is
24 contrary to the reasons for selecting a cost allocation method: to
25 reflect cost causation. Rate minimization is appropriately
26 addressed in determining class revenue allocation and rate
27 design and not by selecting a cost allocation methodology.

28 • 12CP-50%AD represents yet another change in allocation methods.
29 TECO has never proposed the same production plant allocation factor
30 in the four rate cases it has filed since 1985. This constant churn in
31 cost allocation methods creates instability in class cost relationships,
32 which is not a desirable attribute of a good rate design.

33 • 12CP-50%AD would classify 57% of TECO's net production plant
34 costs to energy. This is comparable to the Equivalent Peaker (EP)
35 method, which classifies between 40% and 75% of production plant
36 costs to energy. Like EP, 12CP-50%AD is based on the erroneous
37 assumption that fuel cost savings drive investment decisions.

38 • The Commission has previously rejected EP because EP allocates
39 plant costs beyond the economic break-even point. This is also the
40 case with 12CP-50%AD. The only difference between EP and 12CP-

1 50%AD is the application of judgment in determining the portion of
2 plant costs allocated on energy.

3 • The Commission should adopt 12CP-1/13thAD for TECO, just as it
4 has adopted this method for Duke, FPL and Gulf. Alternatively, if the
5 Commission determines that no change is appropriate, it should retain
6 12CP-25%AD, which was approved in TECO's last rate case.

7 • If, contrary to my recommendation, 12CP-50%AD is adopted, then the
8 12CP should be replaced with the Summer/Winter CP method
9 because the Summer/Winter CP best reflects TECO's system load
10 characteristics that drive the need for capacity and it would not
11 allocate demand-related costs beyond the economic breakeven point,
12 as is the case with 12CP. Further, the cost study should also
13 recognize that some fuel costs are incurred for reliability (e.g., start-
14 up, stabilization).

15 Distribution Plant Allocation

16 • I agree with TECO's proposal to classify a portion of the distribution
17 network investment as customer-related. This is consistent with
18 accepted practice. Further, the results of TECO's minimum
19 distribution system (MDS) method are reasonable relative to other
20 utilities that use MDS or other methods to determine the customer-
21 related portion of distribution network costs.

22 Planned Outage Expense

23 • The Commission should disallow \$3.7 million of planned outage
24 expenses because TECO's test year expenses are clearly abnormal
25 (26% higher) relative to prior years.

26 Storm Damage Reserve

27 • TECO's proposal to increase its storm damage reserve is
28 unwarranted. Not only is the current reserve more than adequate to
29 handle almost three consecutive years of damage (including Category
30 1 and all but the most severe of Category 2 hurricanes), TECO's
31 analysis fails to recognize the substantial investment in storm
32 hardening, which should lessen future expenses and it ignores the
33 Commission's directives. Specifically, the Commission has stated
34 that the storm reserve should be adequate to accommodate most (but
35 not all) storm years and utilities can seek recovery of all storm
36 damage.

37 • The target storm reserve should not increase. Accruals to the storm
38 reserve should cease.

2. GSD-IS CLASS CONSOLIDATION

1 **Q IS TECO PROPOSING ANY CHANGES AFFECTING THE CUSTOMERS**
2 **TAKING SERVICE ON THE INTERRUPTIBLE SERVICE RATE?**

3 **A** Yes. TECO is proposing to consolidate the GSD and IS rate classes and
4 completely eliminate the IS rate schedules. If approved, IS customers would
5 take service on the various GS and GSD rate schedules.

6 **Q DID TECO PREVIOUSLY PROPOSE ELIMINATING THE INTERRUPTIBLE**
7 **SERVICE RATE?**

8 **A** Yes. TECO proposed eliminating the IS rate schedules in its last rate case.

9 **Q WAS TECO'S PROPOSAL TO ELIMINATE THE INTERRUPTIBLE SERVICE**
10 **RATE APPROVED?**

11 **A** No. The Commission rejected TECO's proposal.

12 **Q WHY IS TECO ONCE AGAIN PROPOSING TO CONSOLIDATE THE GSD**
13 **AND INTERRUPTIBLE SERVICE RATE CLASSES AND ELIMINATE THE**
14 **INTERRUPTIBLE SERVICE RATE SCHEDULES?**

15 **A** TECO's rate design witness, Mr. Ashburn, cites two reasons in his pre-filed
16 testimony for consolidating the GSD and IS rate classes and eliminating the IS
17 rate schedules. First, he explains that consolidation would allow TECO to
18 "complete the transition of the customers on the IS rate schedules to the GSD
19 rate schedules."¹ Second, he asserts that maintaining the IS rate would preserve
20 "inequitable situations" that exist between the existing IS customers and new
21 interruptible customers.²

1 As explained later, neither reason justifies consolidating the GSD and IS
2 rate classes. Further, TECO's proposed consolidation would be grossly
3 inequitable to the IS customers.

4 **Q TURNING TO THE FIRST REASON FOR CONSOLIDATION, TO WHAT**
5 **TRANSITION IS MR. ASHBURN REFERRING?**

6 A Mr. Ashburn stated that IS customers are fully aware that their "grandfathered"
7 status has been extended for decades.³ I can only assume from this statement
8 that he is referring to the transition that commenced in 1985, when the
9 Commission closed the IS-1 rate schedules.⁴ However, this was not a transition
10 that would ultimately lead to eliminating the IS class. The stated reason for
11 closing the IS-1 rate schedules was that interruptible service was no longer cost-
12 effective.

13 **Q DID CLOSING THE INTERRUPTIBLE SERVICE RATES PROVIDE A CLEAR**
14 **INDICATION THAT THEY WOULD EVENTUALLY BE ELIMINATED?**

15 A No. Closing the IS rate schedules meant that no new interruptible customers
16 could opt for non-firm service under these rates. It did not mean that the IS class
17 would be eliminated. In fact, the IS rate schedules continued to be subject to
18 periodic adjustments in rate cases even though they were closed to new
19 business.

20 **Q ARE THE CURRENT INTERRUPTIBLE SERVICE RATES THE SAME AS THE**
21 **RATES THAT WERE CLOSED TO NEW BUSINESS?**

22 A No. In TECO's last rate case, the "interruptibility" was removed from the IS rate
23 schedules. This transformed IS from an interruptible to a cost-based firm service
24 rate. As such, it marked the end of the transition to ensure that non-firm service

1 remains a viable option for all customers and that the rates for this service
2 remain cost-effective. Thus, it is inaccurate to assert that there was ever a
3 decades-long transition that would ultimately result in eliminating the IS rate
4 schedules.

5 **Q HAVE INTERRUPTIBLE CUSTOMERS KNOWN FOR DECADES THAT THEIR
6 RATE CLASS WAS GOING TO BE ELIMINATED?**

7 A No. The proposal to eliminate the IS class was made for the first time in TECO's
8 last rate case. That case was filed in August, 2008. As previously stated, the
9 Commission rejected TECO's proposal to eliminate IS in that case. Thus, IS
10 customers could not have had any reasonable expectation that the IS rate
11 schedules would be eliminated. Put simply, the IS rate should not be eliminated,
12 and witness Ashburn speculates about the mindset of the IS customers. As
13 discussed later, there is no legitimate reason not to retain and re-open IS
14 allowing the rates to be applicable to all similarly situated customers.

15 **Q DO YOU AGREE WITH MR. ASHBURN'S ASSERTION THAT MAINTAINING
16 THE INTERRUPTIBLE SERVICE RATE WOULD PRESERVE INEQUITABLE
17 SITUATIONS THAT HE SAYS EXIST BETWEEN THE INTERRUPTIBLE
18 SERVICE CUSTOMERS AND GSD CUSTOMERS THAT OPT FOR
19 INTERRUPTIBLE SERVICE?**

20 A No. Mr. Ashburn's assertion is based on an assumption that differences between
21 the GSD and IS rates are inequitable. However, both the GSD and IS rates were
22 set by the Commission in TECO's last rate case using an approved class cost-of-
23 service study and rate design. Thus, his assertion that there are inequities
24 between interruptible customers taking service on the GSD and IS rate

1 schedules misses the mark.

2 **Q ARE THE DIFFERENCES BETWEEN THE GSD AND INTERRUPTIBLE**
3 **SERVICE RATES INEQUITABLE?**

4 A No. It is not uncommon or improper to charge different rates for different
5 customer classes based on differences in the cost of providing service. A class's
6 cost-of-service is highly dependent on its load and usage characteristics. Two
7 classes with different usage characteristics will have different costs to serve. If a
8 cost-of-service study is used to design rates (which is a common practice in
9 Florida), it follows that the rates will be different.

10 **Q. DO THE GSD AND INTERRUPTIBLE SERVICE CLASSES HAVE DIFFERENT**
11 **LOAD CHARACTERISTICS?**

12 A Yes. In fact, Mr. Ashburn concedes that the 42 remaining customers in the IS
13 class have more favorable load characteristics than the 14,000 customers being
14 served on the GSD rate schedules. He even candidly admits that the IS
15 customers have a "cost-supported rate advantage."⁵

16 I will provide an in-depth comparison between the GSD and IS load
17 characteristics later in my testimony. These differences support retaining both
18 the GSD and IS rate schedules. Thus, there is nothing inequitable about the
19 current GSD and IS rates. They are both cost-based rates for firm service.
20 Contrary to Mr. Ashburn's assertion, eliminating the IS rate schedules would
21 cause an even greater inequity.

22 **Q PLEASE EXPLAIN.**

23 A The IS class is providing a 7.43% rate of return at current rates under TECO's
24 preferred class cost-of-service study (CCOSS). TECO is only seeking a 6.74%

1 rate of return at proposed rates.⁶ In other words, the IS class already has a 1.10
2 parity ratio relative to TECO's *proposed* rate of return. If the Commission
3 approves a lower revenue requirement than TECO has proposed, the IS class's
4 parity ratio could be higher than 1.10. A parity ratio above 1.0 at proposed rates
5 means that *IS customers are currently paying more for their electricity service*
6 *than is justified by TECO's CCOSS.*

7 In order to move to parity, base rates for IS customers would have to be
8 reduced. However, the Commission's policy disfavors one customer class
9 receiving a rate decrease when rates are increasing. Under these specific
10 circumstances, the IS class should receive zero increase.

11 Rather than retaining the IS rate class and maintaining the current base
12 rates, TECO is proposing an 11.1% base rate increase for IS customers.⁷ *The*
13 *11.1% increase is solely the result of TECO's proposal to consolidate the GSD*
14 *and IS classes and eliminate the IS rate class.* Forcing the IS customers to
15 absorb a significant base rate increase when TECO's CCOSS supports no
16 increase or even a decrease to the stand-alone IS rate class would be grossly
17 inequitable. TECO's proposal to fold the IS class into the GSD class would also
18 financially penalize many large businesses that employ scores of people and are
19 important participants in the local economy. For this reason alone, TECO's
20 consolidation proposal should be rejected.

21 **Q WOULD THE COST OF SERVICING INTERRUPTIBLE SERVICE**
22 **CUSTOMERS CHANGE JUST BECAUSE THAT CLASS IS CONSOLIDATED**
23 **WITH THE GSD CLASS?**

24 **A** No. Consolidation does not change the level of costs caused by the IS rate
25 class. It would, however, result in charging much higher rates to IS customers

1 because the consolidated GSD-IS class costs would be spread to both GSD and
2 IS customers. In other words, consolidation would simply hide the substantial
3 subsidies that IS customers are currently providing and, with an 11.1% base rate
4 increase that would result if IS were consolidated with GSD, would exacerbate
5 the subsidy being paid by IS customers.

6 **Q WHY ELSE SHOULD TECO'S RATE CONSOLIDATION PROPOSAL BE**
7 **REJECTED?**

8 **A** As previously stated, the GSD and IS classes are not homogeneous; that is, they
9 do not have similar load and usage characteristics. Combining dissimilar
10 customer classes is contrary to accepted practice, which is to define customer
11 classes based on homogeneous load and usage characteristics. For example:

12 After the costs have been functionalized and classified the next
13 step is to allocate them among the customer classes. **To**
14 **accomplish this, the customers served by the utility are**
15 **separated into several groups based on the nature of the**
16 **service provided and load characteristics.** The three principal
17 customer classes are residential, commercial and industrial. **It**
18 **may be reasonable to subdivide the three classes based on,**
19 **characteristics such as size of load the voltage level at which**
20 **the customer is served and other service characteristics such**
21 **as whether a residential customer is all-electric or not.**
22 Additional customer classes that may be established are street
23 lighting, municipal, and agricultural.⁸ (emphasis added)

24 An additional example to further reiterate this mainstream concept and practice:

25 A public utility is normally engaged in furnishing service to
26 different classes of customers under varying circumstances of
27 delivery, consumption and/or utilization wherein such variation
28 furnishes a basis for differentials in the pricing of the service
29 rendered. **These variations in types of utilization and in**
30 **patterns of consumption may cause differences in the cost of**
31 **rendering the various classes of service. Such variations are**
32 **commonly referred to as load characteristics. Foremost**
33 **among the load characteristics are rates of consumption, the**
34 **relationship between average and maximum rates of**
35 **consumption (referred to as load factor) and coincidence of**
36 **consumption of customers within a particular classification**

1 as well as among customers served under other
2 classifications. Differences in load characteristics frequently
3 furnish the basis for separate classifications of customers for
4 rate making purposes.⁹ (emphasis added)

5 Q ARE THE GSD AND INTERRUPTIBLE SERVICE CLASSES
6 HOMOGENEOUS?

7 A No. Exhibit ___(JP-1) is an analysis of the characteristics of GSD and IS
8 classes for the Test Year. Page 1 shows the characteristics at the class level.
9 Page 2 shows the characteristics by delivery voltage. The key characteristics
10 include: size, load factor, coincidence factor, and delivery voltage. The analysis
11 is summarized in the table below. As can be seen, there are significant
12 differences in each of the key characteristics.

Test Year Usage, Load, and Service Characteristics GSD vs. IS Classes			
Characteristic	Description	GSD	IS
Size	Avg. kWh Per Month	45,674	1,684,336
	Avg. kW Per Month	119	6,672
Load Factor	12 Coincident Peak	70%	110%
	Non-Coincident Peak	61%	67%
	Billing Demand	52%	35%
Coincidence Factor	12CP to NCP	87%	61%
	12CP to Billing Demand	75%	32%
Delivery Voltage	% at Secondary	84%	0%
	% at Sub-Transmission	0.1%	72%

13 Further, the differences in load characteristics are not unique to the Test Year, as
14 shown in the table below.

Historical Load Characteristics GSD Vs. IS Classes						
Description	2010		2011		2012	
	GSD	IS	GSD	IS	GSD	IS
Coincident Load Factor	77%	94%	75%	94%	77%	95%
Coincidence Factor	85%	69%	75%	56%	83%	61%

1 **Q WHAT IS COINCIDENT LOAD FACTOR?**

2 A Coincident load factor is the ratio of each class's average demand to its twelve
3 coincident peak (12CP) demand. Thus, it measures how intensively electricity is
4 used during the peak hours of the month.

5 **Q WHAT IS COINCIDENCE FACTOR?**

6 A Coincidence factor is the ratio of 12CP demand to Non-Coincident Peak (NCP)
7 demand. It measures how much of the class's peak demand occurs coincident
8 with the system peak.

9 **Q HOW ARE COINCIDENT LOAD FACTOR AND COINCIDENCE FACTOR
10 RELEVANT IN DETERMINING WHETHER CUSTOMER CLASSES ARE
11 HOMOGENEOUS?**

12 A A class with a high coincident load factor uses electricity more intensively during
13 peak hours. By contrast, a class with a low coincident load factor uses electricity
14 more intensively during non-peak hours. As can be seen, the IS class has a
15 lower coincident load factor than the GSD class.

16 Differences in coincidence factor have important rate design implications.
17 Specifically, a lower coincidence factor means that it is less costly to serve a
18 customer on a per kilowatt (kW) basis. The higher the coincidence factor, the
19 higher the demand charge when the charge is based on maximum demand. This
20 result is illustrated on below. As can be seen above, the IS class has a lower
21 coincidence factor than the GSD class.

22 **Q HOW DO DIFFERENCES IN COINCIDENCE FACTOR AFFECT THE DESIGN
23 OF A COST-BASED RATE STRUCTURE.**

24 A Coincident demand is the primary basis upon which production, transmission and

1 distribution costs are allocated among the customer classes. Billing or non-
2 coincident demand is the maximum metered demand during the billing month.

Relationship Between Coincidence Factor and Demand Charges					
Customer Class	Coincident Demand (kW)	Billing or Non-Coincident Demand (kW)	Coincidence Factor ^(a)	Allocated Demand Costs ^(b)	Demand Charge ^(c)
	(1)	(2)	(3)	(4)	(5)
1	1,000	2,000	50%	\$10,000	\$5.00
2	1,000	1,430	70%	\$10,000	\$6.99
3	1,000	1,175	85%	\$10,000	\$8.51
(a) Column (1) ÷ Column (2)					
(b) Assume that costs are allocated in proportion to Column (1).					
(c) Column (4) ÷ Column (2)					

3 As can be seen, the lower the coincidence factor (column 3), the lower per unit
4 demand charge (column 5), all other things being equal. This is because there
5 are more billing units (column 2) over which to spread the allocated demand-
6 related costs (column 4).

7 **Q WHAT IS THE IMPLICATION OF THE DIFFERENT COINCIDENCE FACTORS**
8 **IN DETERMINING WHETHER THE GSD AND INTERRUPTIBLE SERVICE**
9 **CLASSES SHOULD BE COMBINED?**

10 **A** As shown previously, the GSD and IS classes have very different coincident load
11 factors and coincidence factors. Thus, they are not homogeneous. Ignoring
12 these differences by consolidating the GSD and IS rate classes would result in
13 inappropriate cross subsidies.

14 **Q ARE THERE OTHER REASONS THE GSD AND INTERRUPTIBLE SERVICE**
15 **CLASSES SHOULD NOT BE COMBINED?**

16 **A** Yes. Delivery voltage is another characteristic that can be used to define a

1 customer class. For example, FPL has several rate classes that take service
 2 solely at transmission voltage. TECO's IS class is similarly situated because a
 3 preponderance of service is delivered at sub-transmission voltage. This is in
 4 stark contrast to GSD, where almost no electricity is delivered to customers at
 5 this high voltage level.

6 Consolidation would also result in TECO having the fewest rate classes of
 7 any investor-owned electric utility in Florida. The number of rate classes by utility
 8 is summarized in the table below. Based on my experience, TECO has the
 9 fewest rate classes of the vast majority of integrated electric utilities with which I
 10 am familiar that serve residential, commercial and industrial customers.

Number of Rate Classes Used in Class Cost-of-Service Studies by Florida Investor-Owned Electric Utilities	
Utility	Number of Rate Classes*
FPL	13
Duke	6
Gulf	6
TECO	4
* Lighting is considered as 1 rate class.	

11 The fact that most other utilities have more rate classes than TECO underscores
 12 how TECO is at odds with industry practice. Additionally, having too few rate
 13 classes means each class cannot be as homogeneous as is required to
 14 accurately allocate costs and design rates that reflect the cost of serving each
 15 customer. This would be particularly true with respect to TECO's GSD class
 16 (both before and after consolidation).

17 **Q PLEASE SUMMARIZE YOUR RECOMMENDATION ON TECO'S PROPOSAL**
 18 **TO CONSOLIDATE THE GSD AND INTERRUPTIBLE SERVICE CLASSES.**

1 A The Commission should once again reject TECO's proposal to consolidate the
 2 GSD and IS classes. Contrary to Mr. Ashburn's purported "justifications", there
 3 has been no decades-long transition to eliminate the IS rate schedules, and there
 4 are no inequities in maintaining separate cost-based GSD and IS rate schedules.
 5 What Mr. Ashburn characterizes as inequities are in fact legitimate cost-based
 6 differences between the GSD and IS rates, as determined by this Commission in
 7 TECO's last rate case. Further, Mr. Ashburn concedes that these differences
 8 currently exist, and my analysis confirms that the differences in the GSD and IS
 9 load, usage and service characteristics support maintaining the status quo.
 10 While having homogeneous classes is one of the criteria that Mr. Ashburn
 11 references in describing a proper rate design,¹⁰ he has failed to follow his own
 12 criterion in this instance. And finally, IS customers do not require a rate increase
 13 because the IS class is already above parity relative to TECO's proposed Florida
 14 Jurisdictional rate of return. For all of these reasons, the IS class should remain
 15 intact.

16 **GSD Rate Design**

17 **Q HOW SHOULD THE GSD RATE SCHEDULES BE DESIGNED?**

18 A Rate design is a continuation of the cost allocation process. Thus, a properly
 19 designed GSD rate should track cost causation as defined in the class cost-of-
 20 service study (CCOSS). This means that Customer (or Basic) charges should
 21 reflect customer-related costs, Demand charges should reflect demand-related
 22 costs, and Energy charges should reflect energy-related costs. The table below
 23 summarizes the unit customer, demand and energy costs of the consolidated
 24 GSD-IS rate class with the corresponding proposed rates for service at
 25 secondary voltage.

TECO's Proposed Consolidated GSD Rate Design Vs. Unit Cost at Secondary Voltage		
Charge	Standard Rate	Unit Cost
Basic Charge (per month)	\$30.00	\$28.31
Demand Charge (per kW-month)	\$9.50	\$12.60
Energy Charge (per kWh)	1.829¢	0.956¢
Source	E-13c	E-1

1 **Q DOES TECO'S PROPOSED GSD RATE DESIGN FOLLOW THE COSTING**
2 **PHILOSOPHY DESCRIBED ABOVE?**

3 **A** No. As can be seen, only the Basic charge reflects unit cost as derived in
4 TECO's preferred CCOSS at proposed rates. The proposed standard Energy
5 charge is nearly double unit cost. In fact, the current GSD Energy charge of
6 1.583¢ is already above cost. As a consequence of setting Energy charges well
7 above cost, the proposed Demand charges are being set below cost. TECO's
8 workpapers reveal that the proposed \$9.50 per kW Demand charge was an input
9 and was not justified by a specific cost support.

10 **Q DO TECO'S PROPOSED GSD STANDARD ENERGY CHARGES AFFECT**
11 **ANY OTHER CHARGES?**

12 **A** Yes. The proposed GSD Standard Energy charge is used to derive the On-Peak
13 Energy charge. Specifically, the On-Peak Energy charge is the difference
14 between the proposed Standard and Off-Peak Energy charges weighted for the
15 percent of on and off-peak hours. The proposed Off-Peak Energy charge was
16 set at average unit energy cost. The present and proposed On and Off-Peak
17 Energy charges are summarized in the table below.

TECO's Proposed On and Off-Peak Energy Charges at Secondary Voltage (per kWh)			
Charge	Present	Proposed	Percent Increase
On-Peak	2.898¢	3.999¢	38.5%
Off-Peak	1.046¢	0.946¢	9.6%

1 The result of this formulation is a 38% increase in the On-Peak Energy charge
 2 and a 10% decrease in the Off-Peak Energy charge. These compare to an
 3 overall 11.6% base revenue increase for the GSD class. In my opinion,
 4 increasing any charge by more than three times the class average increase is
 5 both excessive and violates the principle of gradualism.

6 **Q WHAT DO YOU MEAN BY GRADUALISM?**

7 A Gradualism is a concept that is applied that limits the movement of rates to cost
 8 to prevent "rate shock." Although TECO is not proposing to move the GSD
 9 Energy charges to cost, the excessive increases in the On-Peak Energy charge,
 10 which exceeds three times the class average increase, would result in rate
 11 shock.

12 **Q SHOULD TECO'S PROPOSED GSD ENERGY CHARGES BE ADOPTED?**

13 A No. The proposed 1.829¢ Standard Energy charge is 91% above actual cost.
 14 The above-cost Standard Energy charge also explains the excessive increase in
 15 the On-Peak Energy charge. Thus, TECO's proposed GSD Energy charges not
 16 only fail to track actual cost, they are contrary to cost-based ratemaking and the
 17 principle of gradualism. For these reasons, TECO's proposed GSD rate design
 18 should be rejected.

19 **Q HOW SHOULD THE GSD ENERGY CHARGES BE DESIGNED?**

1 A Consistent with the results of TECO's CCOSS and with the objective of aligning
2 rates to reflect actual cost, there should be no increase in the GSD Energy
3 charges. All of the increase should be collected in the Basic Service and
4 Demand charges.

5 Q SHOULD ANY OTHER CHANGES BE MADE TO THE GSD RATE DESIGN IF
6 THE COMMISSION APPROVES CONSOLIDATING THE GSD AND
7 INTERRUPTIBLE SERVICE RATE SCHEDULES?

8 A Yes. As previously stated, the IS class is already earning a 1.10 times parity
9 ratio relative to TECO's *proposed* rate of return. Thus, pricing the IS customers
10 on the proposed GSD rate would further exacerbate the subsidy provided by the
11 IS class. For this reason, if the two classes are consolidated, I recommend that
12 the Delivery Voltage Adjustments for sub-transmission service be increased to
13 help mitigate this subsidy. Most of the IS class sales are at sub-transmission
14 voltage. Thus, increasing the applicable Delivery Voltage Adjustment would
15 target most of the relief to the IS customers.

16 Q BY HOW MUCH SHOULD THE SUB-TRANSMISSION DELIVERY VOLTAGE
17 ADJUSTMENT BE INCREASED?

18 A The sub-transmission Delivery Voltage Adjustment should provide an additional
19 credit to offset the proposed base revenue increase to the IS class, or \$581,000.
20 This would translate into an additional \$0.53 credit in the sub-transmission
21 Delivery Voltage Adjustment. Of course, the better solution would be to retain
22 the IS rate schedules.

23 **Interruptible Service Rate Design**

24 Q IF TECO'S PROPOSED GSD-IS CLASS CONSOLIDATION IS REJECTED,

1 **HOW SHOULD THE IS RATE BE DESIGNED?**

2 A The same costing philosophy described above for GSD should also apply to the
3 IS rate schedules. Further, because the IS class is presently providing a rate of
4 return higher than TECO's proposed return, the IS rate design should remain
5 revenue neutral. This does not mean that the IS rate design should be
6 unchanged. As can be seen in the table below, the current Demand and Energy
7 charges bear no semblance whatsoever to cost-based rates under TECO's
8 CCOSS.

Current Interruptible Service Rate Design Vs. Unit Cost		
Charge	Current Rate	Unit Cost
Basic Charge (per month)	\$622/\$2,372	\$1,032
Demand Charge (per kW-month)	\$1.45	\$7.75
Energy Charge (per kWh)	2.504¢	0.942¢
Source	E-13c	E-1

9 The Energy charge is 166% above cost, while the Demand charge is 81% below
10 cost.

11 **Q SHOULD ANY CHANGES BE MADE TO THE IS RATE DESIGN?**

12 A Yes. If the Commission retains the IS rate schedules, I recommend that the
13 Basic Charge be set to unit cost, the Energy charge should be reduced by 25%,
14 and the remaining revenue requirement be collected in the Demand charge. This
15 would result in the following rates.

Recommended Interruptible Service Rate Design Assuming No Change in IS Base Revenues		
Charge	Recommended Rate	Unit Cost
Basic Charge (per month)	\$520/\$2,150	\$1.032
Demand Charge (per kW-month)	\$5.19	\$7.75
Energy Charge (per kWh)	1.878¢	0.942¢

1 Q **WOULD YOUR RECOMMENDED INTERRUPTIBLE SERVICE RATE DESIGN**
2 **VIOLATE GRADUALISM?**

3 A No. Although the recommended changes in the Energy and Demand charges
4 may appear extreme, this is a reflection of how far current rates are from actual
5 cost. Further, it assumes no increase or decrease in the IS class base revenues.
6 Thus, the impact of much higher Demand charges would be offset by the much
7 lower Energy charges. This end result will be a more cost-based rate design
8 than currently exists.

3. CLASS COST-OF-SERVICE STUDY

1 **Q HAVE YOU REVIEWED THE CLASS COST-OF-SERVICE STUDIES TECO**
2 **FILED IN THIS PROCEEDING?**

3 A Yes. TECO filed both the Commission required and preferred CCOSS at present
4 and proposed rates. The Commission required CCOSS is based on the Twelve
5 Coincident Peak (12CP) and 1/13th Average Demand (AD) method, or 12CP-
6 1/13thAD. However, TECO's preferred CCOSS uses 12CP-50%AD to allocate
7 production plant-related costs, and the minimum distribution system (MDS)
8 methodology is used to classify and allocate certain distribution network costs on
9 a customer basis. TECO's preferred CCOSS at proposed rates also assumes
10 consolidation of the GSD and IS classes.

11 **Q DOES TECO'S PREFERRED CLASS COST-OF-SERVICE STUDY COMPORT**
12 **WITH ACCEPTED INDUSTRY PRACTICES?**

13 A With the exceptions I will discuss below, it generally does. TECO's CCOSS
14 recognizes the different types of costs as well as the different ways electricity is
15 used by various customers.

16 **Q DO YOU AGREE WITH EVERY ASPECT OF TECO'S PREFERRED CLASS**
17 **COST-OF-SERVICE STUDY?**

18 A No. As previously explained, the GSD and IS rate classes should not be
19 consolidated. Further, I strongly disagree with TECO's proposed 12CP-50%AD
20 method.

21 First, it would result in yet another substantial change in production cost
22 allocation methodologies. As explained later, TECO has proposed a different
23 production cost allocation method in every rate case dating back to 1985.

1 Second, Mr. Ashburn relies on four points in suggesting the Commission
2 adopt the 12CP-50%AD approach:

3 **Reason #1.** The manner in which power plants are planned and operated in
4 Florida¹¹;

5 **Reason #2.** TECO has installed a significant amount of base and intermediate
6 load generation which is more expensive to install than alternative
7 peaking generation, but less expensive to operate over time¹²;

8 **Reason #3.** The proposed conversion of the existing simple cycle peakers at
9 TECO's Polk Power Station to a combined cycle structure¹³, which
10 means it is investing in more expensive generating units and
11 associated units to provide more efficient fuel conversion for the
12 generation of electricity; and

13 **Reason #4.** To minimize the revenue requirements for the RS and GS rate
14 classes.¹⁴

15 None of the four reasons cited by Mr. Ashburn support allocating twice as many
16 production plant costs to energy as under the currently approved methodology:
17 12CP-25%AD. In fact, Mr. Ashburn's four reasons support adopting the
18 Commission's preferred 12CP-1/13thAD method. 12CP-1/13thAD was also
19 approved by the Commission and used by Duke Energy Florida (Duke), Florida
20 Power & Light Company (FPL) and Gulf Power Company (Gulf) to determine
21 class revenue allocation and rate design in their most recent rate cases.

22 Third, TECO's proposed 12CP-50%AD would place undue emphasis on
23 year-round energy.¹⁵ In total, 57% of base rate production plant costs would be
24 allocated on an energy basis. By allocating over 57% of TECO's base rate
25 production fixed costs on energy, it gives far less emphasis on peak demand
26 which drives the need for TECO and other utilities to install generation capacity.
27 As explained later, Average Demand is not a cost driver.

28 Finally, 12CP-50%AD is consistent with the percentage of costs typically
29 allocated on an energy basis under the Equivalent Peaker (EP) Method. EP

1 methods generally result in 40% to 75% of total production plant costs being
 2 classified as energy-related.¹⁶ Further, like EP, 12CP-50%AD allocates
 3 production plant costs to hours beyond the economic break-even point. This is
 4 the reason why the Commission rejected EP in 1990. Thus, given the similarities
 5 between EP and 12CP-50%AD, the Commission should also reject 12CP-
 6 50%AD and adopt the 12CP-1/13thAD methodology.

7 **Q DO YOU AGREE WITH ANY OF THE CHANGES TO THE CLASS COST-OF-
 8 SERVICE STUDY THAT TECO IS PROPOSING?**

9 A Yes. I agree with TECO's proposal to use MDS to classify some portion of
 10 network distribution plant-related costs as customer related. TECO's proposal
 11 recognizes the reality that the utility is required to invest in a minimal distribution
 12 network to attach a customer to the system and provide the voltage support
 13 necessary to support reliable electricity service. Stated differently, these costs
 14 are incurred regardless of the amount of power and energy usage by customers.
 15 Thus, they should be allocated to classes relative to the number of customers
 16 served.

17 **Background**

18 **Q WHAT IS A CLASS COST-OF-SERVICE STUDY?**

19 A A class cost-of-service study (CCOSS) is an analysis used to determine each
 20 class's responsibility for the utility's costs. Thus, it determines whether a class
 21 generates sufficient revenues to recover the class's cost of service. A CCOSS
 22 separates the utility's total costs into portions incurred on behalf of the various
 23 customer groups. Most of a utility's costs are incurred to jointly serve many
 24 customers. For purposes of rate design and revenue allocation, customers are

1 grouped into homogeneous classes according to their usage patterns and
2 service characteristics.

3 **Q WHAT PROCEDURES ARE USED TO CONDUCT A CLASS COST-OF-**
4 **SERVICE STUDY?**

5 A The basic procedure for conducting a CCOSS is fairly simple. First, we identify
6 the different types of costs (*functionalization*), determine their primary causative
7 factors (*classification*), and then apportion each item of cost among the various
8 rate classes (*allocation*). Adding up the individual pieces gives the total cost for
9 each class.

10 Identifying the utility's different levels of operation is a process referred to
11 as functionalization. The utility's investments and expenses are separated into
12 production, transmission, distribution, and other functions. To a large extent, this
13 is done in accordance with the Uniform System of Accounts (USOA) developed
14 by the Federal Energy Regulatory Commission (FERC).

15 Once costs have been functionalized, the next step is to identify the
16 primary causative factor (or factors). This step is referred to as *classification*.
17 Costs are classified as demand-related, energy-related or customer-related.
18 Demand (or capacity) related costs vary with peak demand, which is measured in
19 kilowatts (or kW). This includes production, transmission, and some distribution
20 investment and related fixed operation and maintenance (O&M) expenses. As
21 explained later, peak demand determines the amount of capacity needed for
22 reliable service. Energy-related costs vary with the production of energy (or
23 kWh). Energy-related costs include fuel and variable O&M expense. Customer-
24 related costs vary directly with the number of customers, and include expenses
25 such as meters, service drops, billing, and customer service.

1 Each functionalized and classified cost must then be *allocated* to the
2 various customer classes. This is accomplished by developing allocation factors
3 that reflect the percentage of the total cost that should be paid by each class.
4 The allocation factors should reflect *cost-causation*; that is, the degree to which
5 each class caused the utility to incur the cost.

6 **Q WHAT KEY PRINCIPLES ARE RECOGNIZED IN A CLASS COST-OF-**
7 **SERVICE STUDY?**

8 **A A properly conducted class cost-of-service study recognizes two key cost-**
9 **causation principles. First, customers are served at different delivery voltages.**
10 **This affects the amount of investment the utility must make to deliver electricity to**
11 **the meter. Second, since cost-causation is also related to how electricity is used,**
12 **both the timing and rate of energy consumption (*i.e.*, demand) are critical.**
13 **Because electricity cannot be stored for any significant time period, a utility must**
14 **acquire sufficient generation resources and construct the required transmission**
15 **facilities to meet the maximum projected demand, including a reserve margin as**
16 **a contingency against forced and unforced outages, severe weather, and load**
17 **forecast error. Customers that use electricity during the critical peak hours cause**
18 **the utility to invest in generation and transmission facilities.**

19 **Q WHAT FACTORS CAUSE THE PER-UNIT COSTS TO DIFFER BETWEEN**
20 **CUSTOMER CLASSES?**

21 **A Factors that affect the per-unit cost include whether a customer's usage is**
22 **constant or fluctuating (load factor), whether the utility must invest in**
23 **transformers and distribution systems to provide the electricity at lower voltage**
24 **levels, and the amount of electricity that a customer uses. In general, industrial**

1 consumers are less costly to serve on a per unit basis because they:

- 2 • (1) Operate at higher load factors;
- 3 • (2) Take service at higher delivery voltages; and
- 4 • (3) Use more electricity per customer.

5 These three factors explain why some customers pay higher average rates than
6 others.

7 For example, the difference in the losses incurred to deliver electricity at
8 the various delivery voltages is a reason why the per-unit energy cost to serve is
9 not the same for all customers. More losses occur to deliver electricity at
10 distribution voltage (either primary or secondary) than at transmission voltage,
11 which is generally the level at which industrial customers take service. This
12 means that the cost per kWh is lower for a transmission customer than a
13 distribution customer. The cost to deliver a kWh at primary distribution, though
14 higher than the per-unit cost at transmission, is also lower than the delivered cost
15 at secondary distribution.

16 In addition to lower losses, transmission customers do not use the
17 distribution system. Instead, transmission customers construct and own their
18 own distribution systems. Thus, distribution system costs are not allocated to
19 transmission level customers who do not use that system. Distribution
20 customers, by contrast, require substantial investments in these lower voltage
21 facilities to provide service. Secondary distribution customers require more
22 investment than do primary distribution customers. This results in a different cost
23 to serve each type of customer.

24 Two other cost drivers are efficiency and size. These drivers are
25 important because most fixed costs are allocated on either a demand or

1 customer basis.

2 Efficiency can be measured in terms of load factor. Load factor is the
 3 ratio of average demand (*i.e.*, energy usage divided by the number of hours in
 4 the period) to peak demand. A customer that operates at a high load factor is
 5 more efficient than a lower load factor customer because it requires less capacity
 6 for the same amount of energy. For example, assume that two customers
 7 purchase the same amount of energy, but one customer has an 80% load factor
 8 and the other has a 40% load factor. The 40% load factor customers would have
 9 twice the peak demand of the 80% load factor customers, and the utility would
 10 therefore require twice as much capacity to serve the 40% load factor customer
 11 as the 80% load factor. Said differently, the fixed costs to serve a high load
 12 factor customer are spread over more kWh usage than for a low load factor
 13 customer.

14 **Production Plant Allocation**

15 **Q WHAT IS THE 12CP-50%AD METHOD?**

16 **A** The 12CP-50%AD method allocates production plant costs using both 12CP
 17 (which is also used to allocation transmission plant related costs) and energy (or
 18 average demand). Specifically, the 12CP-50%AD allocation factors are derived
 19 as follows:

$$12CP - 50\%AD = 12CP\% \times 50\% + \textit{Average Demand}\% \times 50\%$$

20 **Q HAS THIS COMMISSION EVER APPROVED THE 12CP-50%AD METHOD?**

21 **A** No.¹⁷

22 **Q DID TECO ALSO PROPOSE THE 12CP-50%AD METHOD IN ITS LAST RATE**
 23 **CASE?**

1 A No. TECO proposed and the Commission approved the 12CP-25%AD method
2 in the last rate case. Before TECO's last rate case, it used the 12CP-1/13thAD
3 approach, the same methodology used by Duke, FPL and Gulf today.

4 Q HAS TECO CONSISTENTLY USED THE SAME PRODUCTION PLANT
5 ALLOCATION METHODOLOGY IN EACH OF ITS PRIOR RATE CASES?

6 A No. As can be seen in the table below, TECO has proposed a different
7 production plant cost allocation method in each of its last four rate cases,
8 including this case, dating back to 1985.

Summary of Production Plant Cost Allocation Methods Proposed by TECO	
Docket No.	Methodology
850050	Equivalent Peaker
920324	12CP-1/13AD
080317	12CP-25%AD
130040	12CP-50%AD

9 Thus, 12CP-50%AD is another new proposed methodology. Witness Ashburn
10 admitted during his deposition that the approach was proposed in part simply
11 because the Commission accepted the 12CP-25%AD approach during the last
12 rate case, and maybe the Commission would look favorably on yet another
13 change.¹⁸ Under 12CP-50%AD, TECO is now proposing to roughly double the
14 amount of production plant related costs that would be allocated on an energy
15 basis. Coupled with its proposal to directly classify the costs associated with the
16 Big Bend scrubber and Polk Plant gassifier to energy, 12CP-50%AD would result
17 in classifying 57% of net production plants and related fixed costs on an energy
18 basis.

1 Q IF THE COMMISSION WERE TO ADOPT 12CP-50%AD WILL THIS ALSO
2 CHANGE HOW CERTAIN NON-BASE RATE COSTS ARE ALLOCATED AND
3 COLLECTED?

4 A Yes. TECO currently uses 12CP-25%AD to allocate the demand related portion
5 of purchased power capacity costs in its Capacity Cost Recovery (CCR) rider
6 and certain environmental investment that is being collected in the Environmental
7 Cost Recovery Clause (ECRC). If the Commission were to adopt 12CP-50%AD
8 for allocating base rate costs, this would require a similar change in how costs
9 are allocated and collected in both the CCR and ECRC. Thus, any change in
10 how production plant is allocated in determining base rates will result in
11 corresponding allocation changes in both the CCR and ECRC.

12 Q MR. ASHBURN'S REASON #1 IS THAT 12CP-50%AD IS JUSTIFIED
13 BECAUSE IT REFLECTS HOW POWER PLANTS ARE PLANNED AND
14 OPERATED IN FLORIDA. IS THIS AN ACCURATE STATEMENT?

15 A No. If 12CP-50%AD reflected how power plants are planned and operated in
16 Florida, one should logically expect that this method would be embraced by all
17 Florida investor-owned electric utilities. However, TECO is the only utility in
18 Florida investor-owned electric utility proposing 12CP-50%AD. Again, Duke, FPL
19 and Gulf currently use 12CP-1/13thAD.

20 Q HOW IS THE FACT THAT 12CP-1/13THAD IS USED BY DUKE, FPL AND
21 GULF PERTINENT TO TECO?

22 A Duke, FPL and Gulf are among the other Florida utilities that plan and operate
23 generating systems in Florida (*i.e.*, Reason #1). Further, these utilities have
24 recently completed rate cases before the Commission. In these cases, with the

1 exception of Duke, who ultimately agreed to continue using the 12CP-13thAD
 2 approach, neither FPL nor Gulf proposed changing the 12CP-1/13thAD method.
 3 For example, in its most recent rate case, FPL supported 12CP-1/13thAD stating
 4 that:

5 ***The 12 CP and 1/13th methodology recognizes that the***
 6 ***decision to add generating capacity is driven primarily by***
 7 ***peak demands on the system.*** This methodology classifies
 8 12/13^{ths}, or approximately 92% of costs on the basis of coincident
 9 peak demand and 1/13th, or approximately 8%, of costs on the
 10 basis of energy. That portion classified to demand is allocated to
 11 the individual rate classes based on their 12 CP contributions,
 12 adjusted for losses, while the portion classified to energy is
 13 allocated based on their kWh sales, adjusted for losses. ***Under***
 14 ***the 12 CP and 1/13th methodology, all generating units are***
 15 ***treated consistently based on their function (i.e. production),***
 16 ***their classification (12/13th demand and 1/13th energy), and***
 17 ***their allocation (contribution to the system peak and kWh of***
 18 ***energy).*** The 12 CP and 1/13th methodology has a significant
 19 history of regulatory acceptance in Florida. The 12 CP and 1/13th
 20 methodology was used in Docket No. 830465-EI and Docket No.
 21 080677-EI. Furthermore, the FPSC has approved the 12 CP and
 22 1/13th methodology in rate cases involving other investor-owned
 23 utilities.¹⁹ (emphasis added)

24 **Q IS THERE ANY REASON TO BELIEVE THAT TECO PLANS ITS SYSTEM**
 25 **DIFFERENTLY THAN FPL?**

26 **A No.**

27 **Q TURNING TO MR. ASHBURN'S REASON #2, DOES THE FACT THAT TECO**
 28 **HAS INSTALLED A SIGNIFICANT AMOUNT OF BASE AND INTERMEDIATE**
 29 **LOAD GENERATION JUSTIFY CHANGING THE CURRENTLY APPROVED**
 30 **PRODUCTION PLANT COST ALLOCATION METHOD?**

31 **A No.** TECO's capacity mix is relatively unchanged since the addition of the simple
 32 cycle peakers that were reflected in the Step 2 rates approved in its last rate
 33 case. Thus, TECO's production plant investment reflects the same investment

1 (plus capital additions less depreciation and interim retirements) as was included
2 in base rates in TECO's last rate case.

3 **Q WHAT DOES MR. ASHBURN MEAN BY THE TERM INTERMEDIATE LOAD**
4 **GENERATION?**

5 A I presume Mr. Ashburn is referring to combined cycle gas turbines (CCGTs)
6 because he specifically referenced TECO's existing generation mix, which
7 includes CCGTs at Bayside Units 1 and 2, and TECO's proposed conversion of
8 Polk Units 2-5.

9 **Q DOES MR. ASHBURN'S REASON #3 (THE PLANNED CONVERSIONS AT**
10 **POLK) SUPPORT ADOPTING 12CP-50%AD?**

11 A No. First, the planned conversions at Polk Units 2-5 will not be placed into
12 commercial operation until 2017, which is beyond the test year.²⁰ Thus, any
13 recognition of the conversion would be premature and beyond the scope of this
14 proceeding.

15 Second, TECO is not the only utility adding CCGTs to its system. FPL,
16 recently installed over 1,295 megawatts (MW) of new CCGTs. It is currently
17 planning to install an additional 2,545 MW of capacity.

18 **Q HAS FPL'S DECISION TO INSTALL SUBSTANTIAL AMOUNTS OF**
19 **COMBINED CYCLE GENERATION PROMPTED IT TO CHANGE ITS**
20 **PRODUCTION PLANT ALLOCATION METHODOLOGY?**

21 A No. FPL has supported and continues to support 12CP-1/13thAD despite
22 converting its older steam generation into modern efficient CCGTs. These
23 conversions complement FPL's existing nuclear capacity, which are more capital
24 intensive than CCGTs. Thus, FPL's decision to invest in more capital intensive

1 generation capacity has not prompted it to allocate a much larger percentage of
2 its production plant costs on an energy basis.

3 **Q IS IT ACCURATE TO STATE THAT PRODUCTION PLANT INVESTMENT**
4 **INCURRED TO PROVIDE MORE EFFICIENT FUEL CONVERSION FOR THE**
5 **GENERATION OF ELECTRICITY IS CAUSED BY YEAR-ROUND ENERGY**
6 **USAGE?**

7 A No. Mr. Ashburn's statement is an over-simplification of the system planning
8 process, and it confuses cost causation with benefits.

9 **Q HOW IS MR. ASHBURN'S STATEMENT AN OVERSIMPLIFICATION OF THE**
10 **SYSTEM PLANNING PROCESS?**

11 A System planners are faced with the dual dimensions of: (1) providing reliable
12 service; and (2) minimizing total cost. Because electric energy cannot be stored
13 in large quantities for any significant length of time, providing reliable service
14 requires construction of sufficient generating capacity to meet the projected
15 system peak demands and to provide an adequate reserve margin. This will
16 ensure that whenever a consumer flips the switch an electric light or other
17 appliance will operate.

18 Cost minimization is the requirement that the utility provide the service at
19 the lowest overall cost. The utility strives to install the mix of generating capacity
20 (*i.e.*, base, intermediate and peaking) that, along with the existing generation,
21 yields the lowest total cost. In other words, the economic choice between a base
22 load plant and a peaking plant must consider both investment-related costs (*i.e.*,
23 capital costs) and operating costs. Therefore the type of generating unit selected
24 is a function of average *total* costs.

1 **Q ARE THERE OTHER FACTORS, BESIDES THE ECONOMIC TRADE-OFFS,**
2 **THAT CAN AFFECT UTILITY INVESTMENT DECISIONS?**

3 A Yes. A generating unit represents a 30 to 60-year investment. The long life-
4 cycle makes it difficult for a utility to anticipate every contingency, such as new
5 regulations that require utilities to cease using certain types of fuels, limit
6 operations or install costly equipment to meet prevailing emissions standards or
7 changes in public policy. These contingencies could transform what is otherwise
8 an economical resource under today's circumstances into an uneconomical
9 resource under different circumstances. Thus, it behooves a utility to manage
10 these risks by installing a diversified portfolio of generating resources.

11 **Q WHY DO UTILITIES INSTALL COMBINED CYCLE GENERATION?**

12 A CCGTs provide flexible operating capacity. They can be started up more quickly
13 than older steam units and have considerable load-following capability. Load
14 following means that generator output can be automatically adjusted from
15 moment-to-moment so that the available supply always matches the utility's
16 loads in real time. Flexible capacity is especially important for systems having
17 substantial amounts of intermittent resources (*i.e.*, solar, hydro, wind).

18 With more flexible capacity, CCGTs can also be used to supply
19 Contingency Reserves, which consist of generation and interruptible loads
20 available within 15 minutes. Contingency Reserves are necessary to assure that
21 sufficient capability exists to meet the NERC Disturbance Control Standard and
22 to reestablish resource and demand balance following a Reportable
23 Disturbance.²¹ These functions are clearly necessary to maintain system
24 reliability. As such, it is an oversimplification to claim that any "extra" investment
25 that may be incurred to install CCGTs is driven by fuel savings.

1 Q DO PROJECTED FUEL SAVINGS CREATE THE NEED TO ADD
2 GENERATION CAPACITY?

3 A No. The primary driver for generation capacity additions is the utility's projected
4 peak demand. According to TECO's 2013 Ten-Year Site Plan:

5 To meet the expected system demand and energy requirements
6 over the next ten years, both peaking and intermediate resources
7 are needed. The peaking capacity need will be met by purchased
8 power agreements for peaking capacity secured through 2016. In
9 2017, Tampa Electric currently expects to meet its intermediate
10 load needs by converting Polk Power Station's simple cycle
11 combustion turbines (Polk Units 2-5) to a natural gas combined
12 cycle (NGCC) unit. The operating and cost parameters
13 associated with the capacity additions resulting from the analysis
14 are shown in Schedule 9. Beyond 2017, the company foresees
15 the future needs being that of additional peaking capacity, which it
16 will meet by combustion turbine additions and/or future purchased
17 power agreements.²²

18 Thus, as demonstrated by TECO's own Ten-Year Site Plan, the factor driving the
19 need for new capacity is the growth in projected peak demand. In other words,
20 peak demand is the cost causer, while fuel savings is the outcome of installing
21 more efficient generation capacity. Mr. Ashburn would have us believe that the
22 opposite is true (*i.e.* fuel savings drive plant investment) which is clearly
23 contradicted by the facts.

24 Q IF MR. ASHBURN'S THEORY (THAT FUEL SAVINGS ARE THE PRIMARY
25 DRIVER FOR TECO'S INVESTMENT IN BASE AND INTERMEDIATE LOAD
26 CAPACITY) IS VALID, WOULD 12CP-50%AD ACCURATELY REFLECT HIS
27 THEORY?

28 A No. Mr. Ashburn's system planning theory is premised on a flawed application of
29 the theory of capacity substitution (CAPSUB). Capital Substitution assumes that
30 utilities invest in more capital-intensive generation (*i.e.* coal and CCGTs) in order
31 to save fuel costs. However, as explained in **Appendix C**, 12CP-50%AD fails to

1 correctly apply capital substitution theory because production plant investment is
2 allocated to the hours beyond the economic break-even point. Further, TECO
3 made no attempt to define that portion of fuel costs that are incurred for reliability
4 and not to provide kWh. Such reliability-driven fuel costs should be allocated on
5 a demand, and not an energy, basis.

6 **Q WHAT IS MEANT BY THE "BREAK-EVEN POINT?"**

7 A The break-even point is the number of operating hours in which the total cost of
8 peaking capacity is the same as a other types of capacity. The illustration in
9 **Appendix C** assumes a break-even point of 1,000 hours. This reflects the fact
10 that peaking units rarely operate more than 1,000 hours per year on a recurring
11 basis.

12 **Q WHAT IS THE SIGNIFICANCE OF THE BREAK-EVEN POINT?**

13 A Once a utility decides that additional production capacity is needed to meet peak
14 demand, if that new capacity is expected to run only a limited number of hours,
15 total costs are minimized by the choice of a peaker. On the other hand, if it is
16 projected that a unit will run for a sufficient number of hours, other types of
17 capacity will be more economical.

18 Therefore, *annual energy usage* (or *Average Demand*) does not cause
19 plant investment. However, *load duration up to the break-even point* may
20 influence plant investment decisions. Beyond the break-even point, energy
21 usage is no longer a factor in the decision to select a specific type of generation
22 capacity.

23 **Q HOW DOES 12CP-50%AD RESULT IN ALLOCATING PRODUCTION PLANT**
24 **COSTS TO HOURS BEYOND THE ECONOMIC BREAK-EVEN POINT?**

1 A This is demonstrated in **Exhibit___ (JP-2)**, which shows TECO's load duration
2 curve (in blue) with each of the 12CPs (in green) and average demand (in red)
3 also plotted. A load duration curve is TECO's system demand sorted in
4 descending order with the system peak shown on the left most side of the curve
5 and system minimum demands shown on the right most portion of the curve. In
6 the interest of brevity, only a portion of TECO's load duration curve is shown.

7 First, 12CP-50%AD assigns 50% of production plant cost to all 8,760
8 hours in a typical year (the red area under the load duration curve). However,
9 the economic break-even point of peaking capacity occurs around 800 hours per
10 year. Thus, the vast majority of the hours occur beyond the break-even point.
11 Second, three of the 12CPs also occur beyond the economic break-even point.

12 **Q HOW DID YOU DETERMINE THAT THE ECONOMIC BREAK-EVEN POINT**
13 **OCCURS AT ABOUT 800 HOURS?**

14 A I analyzed the operating hours of TECO's peaker units over the past 3 years.
15 This is shown in **Exhibit___ (JP-3)**. As can be seen, TECO typically operates its
16 peakers between 551 and 1,037 hours per year. This translates into 800 hours
17 per year per unit on average.

18 **Q HAS THE COMMISSION PREVIOUSLY REJECTED METHODS THAT**
19 **ALLOCATE PRODUCTION PLANT COSTS TO ALL 8,760 HOURS?**

20 A Yes. The same issue arose in connection with the Equivalent Peaker (EP)
21 method of allocation. Under EP, 40% to 75% of production plant costs is
22 classified to energy and allocated on Average Demand. The remaining costs are
23 allocated on a CP basis. This is similar to 12CP-50%AD, which allocates 50% of
24 production plant costs on Average Demand and the remaining demand-related

1 costs on 12CP. Both methods allocate significant costs beyond the economic
2 break-even point.

3 However, in 1990 the Commission rejected the EP method. Specifically,
4 the Commission stated:

5 The equivalent peaker methodology implies a refined
6 knowledge of costs which is misleading, *particularly as to*
7 *the allocation of plant costs to hours past the break-*
8 *even point.*²³ (emphasis added)

9 Thus, the Commission has previously determined that methods like EP and
10 12CP-50%AD, which allocate investment to hours beyond the economic break-
11 even point, are clearly at odds with the utility planning process. This is because
12 all production from a specific plant (i.e., kWh sales) is not the critical factor in
13 deciding what type of capacity to install. Only the production up to the break-
14 even point determines the lowest cost capacity addition.

15 **Q ARE THERE ANY MATERIAL DIFFERENCES BETWEEN 12CP-50%AD AND**
16 **EQUIVALENT PEAKER METHODS?**

17 A No. The only real difference between EP and 12CP-50% AD is how the percent
18 of energy-related costs is derived. EP methods typically use a more rigorous
19 analysis, while TECO relied on judgment.²⁴ Given that EP and 12CP-50%AD are
20 for all intents and purposes the same method, the Commission should reject
21 12CP-50%AD just as it rejected EP.

22 **Q DOES MR. ASHBURN'S REASON #4 JUSTIFY ADOPTING 12CP-50%AD?**

23 A No. Mr. Ashburn's fourth reason (that 12CP-50%AD would minimize the revenue
24 requirements for the RS and GS rate classes) has nothing to do with selecting a
25 class cost-of-service methodology. That selection should be based on the
26 application of the principle of cost causation. Cost causation means allocating

1 costs to those classes that cause the utility to incur the specific costs. It does not
2 mean picking a cost allocation method to minimize the rate impact on certain rate
3 classes (*i.e.*, picking winners and losers while disregarding cost causation).
4 Were it to do so, the Commission would effectively be engaging in “price-based
5 costing” rather than “cost-based pricing.” The Commission's long-standing policy
6 has employed “cost-based pricing.” In doing so, rate impacts are properly
7 addressed in determining the appropriate allocation of a base rate increase and
8 in the design of the applicable rates, not in the selection of a cost-of-service
9 methodology.

10 **Recommendation**

11 **Q SHOULD THE COMMISSION ADOPT 12CP-50%AD?**

12 A No. 12CP-50%AD is not consistent with cost causation and does not accurately
13 reflect the system planning process. Further, 12CP-50%AD is not supported by
14 any changes in TECO's system planning process or its current generation mix
15 relative to the mix that existed in TECO's last rate case. As explained previously,
16 12CP-50%AD allocates plant costs beyond the economic break-even point and
17 classifies about the same percentage of costs to energy as EP methods, which
18 the Commission long-ago rejected. Finally, 12CP-50%AD is not being used by
19 Duke, FPL or Gulf. This is relevant because these utilities have invested in
20 significant base and intermediate load capacity resources. Mr. Ashburn has
21 failed to demonstrate how TECO is different than Duke, FPL or Gulf.

22 **Q ARE THERE ANY OTHER REASONS FOR REJECTING 12CP-50%AD?**

23 A Yes. Adopting 12CP-50%AD would cause undue instability in both class
24 revenue requirements and rate design. As previously stated, TECO has

1 proposed a new cost allocation methodology in every rate case since 1985. This
2 current change in methodologies is particularly dramatic in light of the fact that it
3 would double the amount of TECO's total production fixed costs (both base rate
4 and cost recovery clauses) allocated in/or collected on an energy basis.
5 Instability is not a desirable attribute of a rate design.

6 **Q WHAT PRODUCTION PLANT ALLOCATION METHOD SHOULD THE**
7 **COMMISSION ADOPT FOR TECO?**

8 A TECO has provided no evidence that it plans its generation system any
9 differently than other Florida electric utility. The Commission has adopted 12CP-
10 1/13thAD for Duke, FPL and Gulf. Unless there are clear differences between
11 TECO and other Florida utilities, 12CP-1/13AD should also be adopted for
12 TECO.

13 Alternatively, if the Commission does not want to again change its
14 production plant allocation approach, then it should not approve any change in
15 the currently approved cost allocation methodology: 12CP-25%AD. It should not
16 adopt TECO's proposed 12CP-50%AD proposal.

17 **Q IF THE COMMISSION ACCEPTS TECO'S 12CP-50%AD APPROACH,**
18 **SHOULD ANY OTHER CHANGES BE MADE?**

19 A Yes. If the Commission decides that more than 25% of production fixed costs
20 (other than then Big Bend scrubber and Polk gassifier) should be allocated on an
21 energy basis, then it should replace 12CP with an allocator that more closely
22 reflects TECO's actual system load characteristics and does not allocate as
23 many production fixed costs to hours beyond the break-even point as does
24 12CP-50%AD.

1 Q WHAT ALLOCATION METHODOLOGY BEST REFLECTS TECO'S SYSTEM
2 LOAD CHARACTERISTICS?

3 A The summer and winter system coincident demand (Summer/Winter CP) method
4 best reflects TECO's load and supply characteristics.

5 Q HOW DO TECO'S LOAD CHARACTERISTICS SUPPORT THE USE OF THE
6 SUMMER/WINTER CP METHOD?

7 A TECO experiences its maximum annual demand for electricity in either the
8 summer or winter months. This is shown in Exhibit ____ (JP-4), page 1, which
9 is an analysis of TECO's monthly firm peak demands as a percent of the annual
10 system peak for the years 2008 through 2012. TECO routinely peaks in both the
11 summer and winter months. The peak demands in the other months are typically
12 well below the summer and winter peak demands.

13 These characteristics are further summarized in Exhibit ____ (JP-4),
14 page 2. As can be seen:

- 15 • The minimum month peak is generally below 66% of the
- 16 annual system peak.
- 17 • Monthly peak demands are only 85% of the annual system
- 18 peak.
- 19 • Peak demands are 10% (or higher) of the non-peak demands.
- 20 • And with one exception, TECO has a 57% average annual
- 21 load factor.

22 These ratios confirm that TECO has seasonal load characteristics. Thus,
23 electricity demands in the spring and fall months are not particularly relevant in
24 determining the amount of capacity needed for TECO to provide reliable service.

25 Q ARE THE MONTHLY PEAKS IN THE SPRING/FALL MONTHS IMPORTANT
26 BECAUSE TECO HAS TO REMOVE GENERATION FOR SCHEDULED
27 MAINTENANCE?

1 A No. Although TECO does schedule most planned outages during the spring and
2 fall months, this does not make these months important from a cost-causation
3 perspective. Specifically, despite planned outages, TECO generally has higher
4 reserve margins during the months when planned outages have occurred than
5 during the peak summer and winter months. This is shown in **Exhibit ___ (JP-**
6 **5).**

7 The reserve margins were calculated as the margin (available capacity
8 less scheduled outages less firm peak demand) divided by firm peak demand.
9 As can be seen, the reserve margins in the summer and winter peak months,
10 adjusted for scheduled outages, have been well below the corresponding non-
11 peak month reserve margins.

12 **Q WHAT DO THE PEAK DEMAND AND RESERVE MARGIN ANALYSES**
13 **DEMONSTRATE?**

14 A The analyses demonstrate that both summer and winter peak demands
15 determine TECO's capacity requirements. The spring and fall months are
16 irrelevant. Thus, the 12CP method does not reflect cost-causation when
17 measured by TECO's load and supply characteristics. For these reasons, if the
18 Commission allocates an increasing amount of production plant costs to energy,
19 it should also adopt the Summer/Winter CP method.

20 **Q HOW WOULD THE SUMMER/WINTER CP METHOD AVOID ALLOCATING AS**
21 **MANY COSTS BEYOND THE BREAK-EVEN POINT?**

22 A Both the summer and winter annual peak demands are well within the hours up
23 to the break-even point. As previously explained, this is not the case with 12CP.

1 Q WHAT OTHER CHANGES IN THE COST ALLOCATION METHODOLOGY
2 SHOULD BE MADE IF THE COMMISSION DECIDES TO ALLOCATE MORE
3 THAN 25% OF PRODUCTION FIXED COSTS ON AN ENERGY BASIS?

4 A The Commission should recognize that not all variable costs are energy related.
5 As explained below, some variable costs are being incurred either for reliability or
6 as a substitute for higher capital costs. Thus, they should be allocated to classes
7 on a peak demand basis.

8 Q WHAT ARE VARIABLE COSTS?

9 A Variable costs are those that are primarily related to producing energy. The most
10 obvious examples of variable costs are fuel and purchased energy expenses.

11 Q HOW ARE FUEL AND PURCHASED ENERGY COSTS ALLOCATED AND
12 COLLECTED?

13 A Fuel and purchased energy costs are allocated and collected on an energy basis.

14 Q IF SOME PORTION OF PRODUCTION FIXED COSTS IS ASSUMED TO BE
15 ENERGY-RELATED, IS IT REASONABLE TO ASSUME THAT ALL FUEL AND
16 PURCHASED ENERGY COSTS ARE ALSO ENERGY-RELATED?

17 A No. TECO's assumption that all fuel and purchased energy costs are energy-
18 related ignores several fundamental principles. First, TECO must commit its
19 generating units in advance of actual demand. This requires fuel to be
20 consumed for unit start-up and stabilization.

21 Second, certain generating units cannot be cycled completely down once
22 they have been committed to serving load. These units must operate at
23 minimum load levels to provide spinning and supplementary reserves. This is
24 particularly necessary during low load periods.

1 In both instances (*i.e.* start up and operating units at minimum load), there
2 is no direct link between fuel costs and kWh generated.

3 **Q DOES TECO INCUR FUEL COSTS THAT DO NOT DIRECTLY RESULT IN**
4 **GENERATING KILOWATT HOURS?**

5 A Yes. As with other utilities, TECO incurs fuel costs both during start-up to
6 commit units to daily operation and to allow units to operate at their economic
7 minimums during low load periods. TECO estimates that about \$8.3 million of
8 costs are incurred for start-up. TECO could not quantify the fuel costs incurred to
9 maintain units at minimal operating levels.²⁵ Arguably, both start-up costs and
10 the fuel costs to maintain a unit in service should be allocated on a demand basis
11 because they are being incurred to maintain system reliability.

12 **Distribution Cost Classification**

13 **Q HOW HAS TECO CLASSIFIED DISTRIBUTION INVESTMENT?**

14 A TECO has classified a portion of its distribution network investment as customer-
15 related. This is consistent with the purpose of the distribution system, which is to
16 deliver power from the transmission grid to the customer, where it is eventually
17 consumed. Certain investments (*e.g.*, meters, service drops) must be made just
18 to attach a customer to the system. These investments are customer-related.

19 **Q WHAT DO YOU MEAN BY THE DISTRIBUTION NETWORK?**

20 A The distribution "network" consists of TECO's investment in poles, towers,
21 fixtures, overhead lines and line transformers. These investments are booked to
22 FERC Accounts 364, 365, 366, 367, and 368.

1 Q HOW DID TECO DETERMINE THE CUSTOMER-RELATED PORTION OF THE
2 DISTRIBUTION NETWORK INVESTMENT?

3 A TECO used a minimum distribution study (MDS). Under MDS, the customer-
4 related portion is representative of the investment in the minimum size equipment
5 required to attach customers to the system and provide the necessary voltage
6 support.

7 Q WHY IS IT APPROPRIATE TO CLASSIFY A PORTION OF THE
8 DISTRIBUTION NETWORK INVESTMENTS AS A CUSTOMER-RELATED
9 COST?

10 A Classifying a portion of the distribution network as a customer-related cost
11 recognizes the reality that every utility must provide a path through which
12 electricity can be delivered to each and every customer regardless of the peak
13 demand or energy consumed. Further, that path must be in place if the utility is
14 to meet its obligation to provide service upon demand.

15 Absent a connection to the system, a customer cannot take power.
16 Further, the connecting facilities must be sized to provide voltage support before
17 any power or energy can be consumed. These prerequisites (*i.e.*, a grid
18 connection with facilities sized to provide voltage support) are clearly related to
19 the existence of the customer.

20 Q DO ANY OTHER FACTORS JUSTIFY CLASSIFYING A PORTION OF THE
21 DISTRIBUTION NETWORK AS CUSTOMER-RELATED?

22 A Yes. The distribution network must comply with this Commission's standards of
23 construction. Specifically, Rule 25-6.034 requires that:

24 (1) The facilities of each utility shall be constructed, installed,
25 maintained and operated in accordance with generally accepted

1 engineering practices to assure, as far as is reasonably possible,
2 continuity of service and uniformity in the quality of service
3 furnished.

4 (2) Each utility shall, at a minimum, comply with the National
5 Electrical Safety Code [ANSI C-2] [NESC], incorporated by
6 reference in Rule 25-6.0345, F.A.C.

7 Rule 25-6.0342, Florida Administrative Code, was more recently enacted. It
8 requires utilities to cost-effectively strengthen critical electric infrastructure to
9 increase the ability of transmission and distribution facilities to withstand extreme
10 weather conditions and reduce restoration costs and outage times to end-use
11 customers associated with extreme weather conditions. The costs to comply
12 with these Commission rules are not required because of the amount of electric
13 power and energy demanded. They are required because of the existence of
14 each customer and TECO's obligation to provide a reliable connection to the grid.

15 **Q IS IT A RECOGNIZED PRACTICE TO CLASSIFY A PORTION OF THE**
16 **DISTRIBUTION NETWORK AS CUSTOMER-RELATED?**

17 **A Yes.** For example, the NARUC Electric Utility Cost Allocation Manual states that:

18 Distribution plant Accounts 364 through 370 involve demand and
19 customer costs. The customer component of distribution facilities
20 is that portion of costs which varies with the number of customers.
21 Thus, the number of poles, conductors, transformers, services,
22 and meters are directly related to the number of customers on the
23 utility's system.²⁶

24 An excerpt from the Manual pertaining to distribution cost classification is
25 provided in Exhibit___ (JP-6).

26 **Q IS THIS PRACTICE FOLLOWED BY OTHER UTILITIES?**

27 **A Yes.** Exhibit___ (JP-7) is a partial list of the utilities that classify some portion of
28 their distribution network investment as customer-related. This is not intended to
29 be an exhaustive survey.

1 Q WHAT PORTION OF THE DISTRIBUTION NETWORK IS TECO PROPOSING
2 TO CLASSIFY AS CUSTOMER-RELATED?

3 A TECO's MDS study resulted in classifying about 25% of its distribution network
4 investment (FERC Accounts 364 through 368) as customer-related. This is
5 shown in Exhibit___ (JP-8), line 44, column 4.

6 Q HOW DOES TECO'S CLASSIFICATION OF DISTRIBUTION NETWORK
7 COSTS COMPARE WITH THE UTILITIES SHOWN IN EXHIBIT___ (JP-8)?

8 A As previously stated, TECO classifies about 25% of the investment in FERC
9 Accounts 364 through 368 as customer-related. The corresponding composite
10 percentage for the other listed utilities ranges from 19% to 69%. Some variation
11 is to be expected because of differences between each utility's distribution
12 construction practices and the methodologies used to determine the customer-
13 related component.

14 Q PLEASE SUMMARIZE YOUR RECOMMENDATION.

15 A TECO's proposed classification of distribution network costs comports with
16 accepted practice and is modest relative to other utilities. Accordingly, TECO's
17 proposed distribution customer classification should be adopted in this case.

4. REVENUE REQUIREMENT

1 Q WHAT REVENUE REQUIREMENT ISSUES ARE YOU ADDRESSING?

2 A I am addressing the test year planned outage expense and the storm reserve.

3 Planned Outage Expense

4 Q WHAT ARE PLANNED OUTAGE EXPENSES?

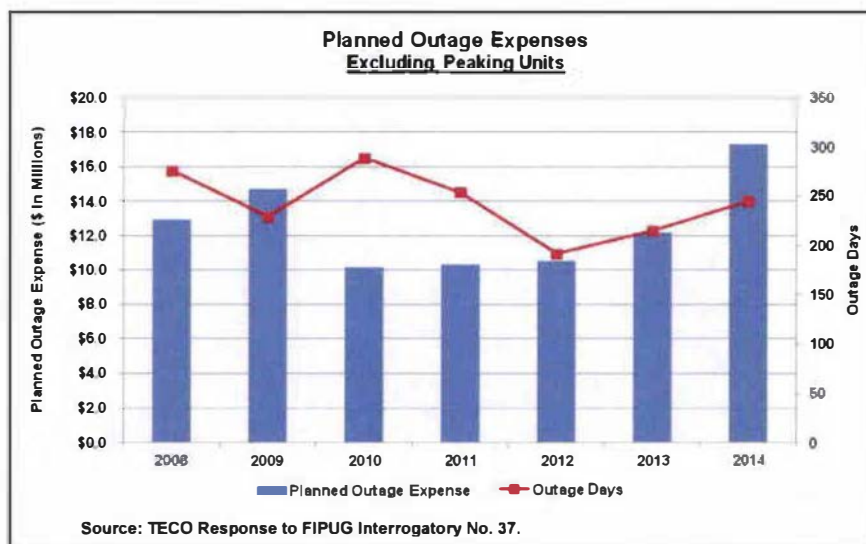
5 A Planned outage expenses are incurred to conduct major overhauls of generating
6 units. They are a subset of production O&M expense.

7 Q IS TECO PROPOSING TO INCLUDE PLANNED OUTAGE EXPENSES IN
8 BASE RATE IN THIS CASE?

9 A Yes. TECO is proposing to include about \$17.6 million (Total Company) of
10 planned outage expenses in base rates. This includes all generating units.

11 Q IS TECO'S PROPOSAL REASONABLE?

12 A No. As can be seen in the chart below, Test Year planned outage expenses are
13 abnormally high. For my analysis I have included generating units other than
14 peakers that will have been in-service for the entire 2008 – 2014 timeframe.



1 A further analysis of these expenses is provided in Exhibit___ (JP-9).
2 Specifically, I have compared the planned outage expenses during the Test Year
3 (column 1) versus the average outage expenses from the previous six years and
4 Test Year (column 2).

5 As can be seen, the proposed Test Year expense of \$17.3 million is
6 nearly 26% higher than the corresponding average period expense of \$12.9
7 million. Particularly noteworthy is the substantial increase in Test Year overhaul
8 costs incurred at Big Bend Unit 1 (line 1) and Big Bend Unit 4 (line 4) plants. The
9 corresponding Test Year costs are 72% and 66% higher than over the previous
10 six years.

11 **Q HOW DO TECO'S PROPOSED TEST YEAR PLANNED OUTAGE EXPENSES**
12 **FOR THE BIG BEND UNITS COMPARE WITH PAST YEARS OUTAGE**
13 **EXPENSES?**

14 **A** In past years major outage expenses have been limited to one unit or no units.
15 The following table lists the Big Bend Units that experienced outage expenses of
16 over \$5 million in a year.

Big Bend Units with Yearly Outage Expenses Greater than \$5 Million		
Unit	Year	Expense
Big Bend 3	2008	\$5,219,128
Big Bend 2	2009	\$6,105,000
Big Bend 3	2013	\$5,300,000

Source: TECO Response to FIPUG Interrogatory No. 37.

17 The proposed Test Year expenses include major outage expenses of \$5.4 million
18 for Big Bend Unit 1 and \$5.7 million for Big Bend Unit 4. Therefore, the proposed
19 Test Year planned outage expenses are clearly abnormal. For this reason,

1 TECO's proposal should be rejected.

2 **Q WOULD IT BE APPROPRIATE TO NORMALIZE PLANNED OUTAGE**
3 **EXPENSES IN SETTING RATES TO BE APPROVED IN THIS CASE?**

4 A Yes. TECO's proposed Test Year planned outage expenses are clearly
5 abnormal and overstated. Thus, it would be appropriate to normalize these
6 expenses so that the base rates approved in this proceeding are more
7 representative of the costs that TECO will actually incur for planned maintenance
8 outages.

9 **Q WHAT IS YOUR RECOMMENDED NORMALIZATION ADJUSTMENT?**

10 A I recommend a \$3.7 million reduction in TECO's proposed Test Year expense.
11 The \$3.7 million adjustment is shown in column 5. It was derived by reducing
12 Test Year expenses for Big Bend Unit 4 to within 5% of the 2008-2014 average
13 expense (column 7).

14 **Storm Reserve**

15 **Q WHAT IS A STORM RESERVE?**

16 A Rule 25-6.0143, Florida Administrative Code, states: "A separate subaccount
17 shall be established for that portion of Account No. 228.1 which is designated to
18 cover storm-related damages to the utility's own property or property leased from
19 others that is not covered by insurance."

20 **Q WHAT IS TECO'S CURRENT STORM RESERVE LEVEL?**

21 A The balance in TECO's storm reserve as of December 31, 2012 was \$50.2
22 million. Considering the current annual storm damage accrual of \$8 million, the
23 balance will grow to \$57.3 million assuming no further property damage is

1 charged to the reserve in 2013.²⁷ If TECO experiences low storm activity similar
2 to the 2005 – 2012 period, the reserve level could reach the target level of \$64
3 million in 2014.

4 **Q HOW IS THE STORM RESERVE FUNDED?**

5 A The storm reserve is funded through customer contributions that the Commission
6 authorizes when it sets base rates. Customers currently contribute \$8 million per
7 year to the storm reserve.

8 **Q DOES THE COMMISSION HAVE A FRAMEWORK FOR STORM
9 RESTORATION COST RECOVERY?**

10 A Yes. According to the order in the last Tampa Electric Company rate case, the
11 Commission addresses the storm restoration cost issue in the following manner:

12 We have established a regulatory framework consisting of three
13 major components: (1) an annual storm accrual, adjusted over
14 time as circumstances change; (2) a storm reserve adequate to
15 accommodate most, but not all storm years; and, (3) a provision
16 for utilities to seek recovery of costs that go beyond the storm
17 reserve.²⁸

18 **Q WHO ULTIMATELY ASSUMES THE RISK OF LOSS FROM STORM DAMAGE
19 UNDER THE EXISTING COMMISSION FRAMEWORK?**

20 A As the Commission stated, TECO's customers ultimately bear all of the risk of
21 losses due to hurricanes and other storms:

22 . . . under the current approach to the recovery of storm
23 restoration costs, the risk associated with a lower reserve level
24 (i.e., the possibility of storm restoration costs exceeding the
25 Reserve, leading to subsequent customer charges) and the risk
26 associated with a higher reserve level (i.e., paying charges now
27 for storm restoration costs that do not materialize) is completely
28 borne by FPL's customers. The customers represented in this
29 proceeding have made clear that they would rather pay to fund the
30 Reserve to a lower level now and risk future rate volatility than pay
31 to fund the Reserve to a higher level before future storm
32 restoration costs have been incurred.²⁹

1 As such, TECO is at little or no risk that it will not recover its legitimate storm
2 restoration costs regardless of the amount in the storm reserve. Put simply, from
3 a customer perspective, the question is when to pay for the cost of restoration –
4 before or after the damage occurs. It is clear that customers prefer to pay when
5 the damage occurs, rather than have the utility hold their money for them. And,
6 the Commission has made it clear through its past actions that when a
7 documented case for such recovery is made, it will permit the utility to recover
8 these costs.

9 **Q IS TECO PROPOSING AN INCREASE IN THE ANNUAL ACCRUALS FOR ITS**
10 **STORM RESERVE?**

11 A No. TECO proposes to continue the \$8 annual accrual it collects for storm
12 reserve.

13 **Q HAS TECO PROPOSED CHANGES TO THE TARGET STORM RESERVE**
14 **BALANCE?**

15 A Yes. The current target level is \$64 million, approved by the Commission in
16 Docket No. 080317-EI, Order No. PSC-09-0283-FOF-EI. In this case, TECO is
17 proposing the targeted reserve balance to increase from \$64 to \$100 million.³⁰

18 **Q SHOULD TECO'S PROPOSED \$36 MILLION INCREASE TO THE TARGETED**
19 **STORM RESERVE BE APPROVED?**

20 A No. TECO has not supported the need for a \$36 million increase. Further, since
21 the \$50.2 million storm reserve balance as of 12/31/12 is sufficient to cover all
22 but the severest storms, accruals should cease. Put simply, this increase is not
23 warranted. As explained below, funds in the storm reserve are sufficient even if
24 the accrual is stopped altogether. Therefore, I recommend that the Commission

1 maintain the targeted reserve at its current level of \$64 million.

2 **Q WHAT IS THE BASIS FOR YOUR RECOMMENDATION?**

3 A Under the Commission's framework described above, the storm reserve accrual
4 and reserve balance are designed to provide coverage for some, but not all,
5 storms. However, the Expected Annual Damage (EAD) presented by TECO
6 witness, Steven Harris, takes into account all manner and strength of storms.³¹
7 In other words, it assumes that the storm reserve should be adequate to cover
8 damage from hurricanes up to Category 4. The current \$50.2 million reserve
9 balance covers all Category 1 hurricanes.³² Considering \$17.6 expected annual
10 charges to the storm reserve, it is sufficient to cover almost three consecutive
11 years.³³

12 **Q WHY IS TECO SEEKING A \$36 MILLION INCREASE IN STORM DAMAGE
13 RESERVE?**

14 A The proposed increase is based on an increase in asset value from the previous
15 study and to cover the expected average annual storm loss to be charged to the
16 reserve derived in the TECO Storm Loss and Reserve Performance Analysis.

17 **Q DOES THE EAD PRESENTED IN THE STUDY PROPERLY REFLECT THE
18 ANNUAL COSTS THAT ARE COVERED WITH THE STORM RESERVE?**

19 A No. I believe the EAD is overstated because it ignores the Commission's
20 directive that the storm reserve should be adequate to accommodate most, but
21 not all storm years.

22 **Q WHAT TYPE OF STORMS ARE INCLUDED IN THE STUDY PRESENTED BY
23 MR. HARRIS?**

1 A The EAD is the average damage of thousands of simulated hurricane seasons in
2 the EQECAT model. The EAD of \$21.9 million presented by TECO represents
3 the average of all these simulations. The analysis includes all storm categories
4 in the EAD. The EAD for all levels of storms is \$21.9 million per year, with a
5 \$17.6 million average expected charge to the reserve. Over the 2000-2012 time
6 frame, TECO has charged \$79 million (in total) to the reserve, as shown in
7 **Exhibit___ (JP-10)**. This equates to an annual average charge to the reserve of
8 less than \$6.1 million. The 2004 Hurricanes (Charley, Francis, and Jeanne)
9 account for \$74 million of this total. The average annual charges to the storm
10 reserve excluding the 2004 hurricanes have been \$0.4 million. The 2000 – 2012
11 period falls in a timeframe with increased hurricane activity as recognized by the
12 National Oceanic and Atmospheric Administration (NOAA).³⁴

13 **Q IS THERE ANY OTHER ISSUE WITH HOW THE EAD WAS CALCULATED?**

14 A Yes. TECO has indicated that the EAD calculation did not include consideration
15 for storm hardening since no major storm has occurred since the storm
16 hardening program was implemented in 2004.³⁵ One would expect the
17 expenditures dedicated to this program to reduce storm damage. However, the
18 EAD calculation omits these benefits and made no assumptions that the result of
19 TECO's storm hardening efforts should result in less damage when a major
20 storm strikes TECO's service territory, all things being equal, as compared to the
21 damage that could be expected before the storm hardening efforts were
22 undertaken. This is an assumption that I believe is a reasonable one to make,
23 and is supported by a factual predicate as described below.

1 Q WHAT IS THE SOURCE OF THE EXPECTATIONS THAT THE STORM
2 HARDENING PROGRAM WOULD REDUCE STORM DAMAGE?

3 A The Direct Testimony of Beth Young (page 27) includes the following:

4 Q You have discussed the reliability of the T&D system and
5 steps you have taken to improve reliability and
6 strengthen the system. What impact do these steps have
7 on restoration after a major storm event?
8

9 A These steps reduce the amount of damage, reduce the
10 number of outages and reduce the overall restoration
11 time for Tampa Electric's system for a major storm event.
12

13 TECO has projected spending \$54 million in 2014 on storm hardening initiatives
14 so one would expect reduced storm damages as a benefit of these initiatives.³⁶

15 Q WHAT IS THE LIKELIHOOD THAT TECO WOULD INCUR DAMAGE IN
16 EXCESS OF THE CURRENT \$64 MILLION TARGET RESERVE?

17 A TECO analyzed the Aggregate Damage Exceedance Probabilities for various
18 damage levels up to and in excess of \$360 million.³⁷ According to TECO's study,
19 there is an 8.68% probability that there will be damage in any one year that
20 exceeds \$60 million. In other words, a storm inflicting damage in an amount of
21 approximately \$60 million is likely to occur only once every 11.5 years.

22 Q WHAT RESULTS DOES THE STUDY SHOW FOR CATEGORY 1 AND 2
23 HURRICANES?

24 A On average, the most destructive Category 1 storm would cause mean damage
25 of slightly less than \$45 million.³⁸ The damage from the most severe Category 2
26 storm would cause mean damage of less than \$120 million.³⁹

1 **Q IS IT NECESSARY TO SET THE STORM RESERVE TO COVER THE COSTS**
2 **OF ALL TROPICAL STORMS OR HURRICANES REGARDLESS OF THE**
3 **LEVEL OF SUCH STORMS?**

4 **A** No. The storm reserve and associated accrual are only part of the framework for
5 recovering storm restoration costs. The Commission has demonstrated its ability
6 and willingness to promptly consider and act upon a utility's request to recover
7 storm costs. As such, the storm reserve need not cover all storms. To do so
8 would impose an unnecessary added burden on customers.

9 Rather, what is needed is a reasonable accrual and a reasonable reserve
10 designed to cover the expected damage from the more common (but not all)
11 storm events. In this instance, TECO is seeking to establish the reserve at a
12 level designed to provide for coverage for all storm damage. Such a "worst case"
13 approach is only necessary if the storm reserve and associated accrual are the
14 only means by which a utility is able to obtain coverage for damages from
15 storms.

16 **Q DO TECO'S CUSTOMERS BENEFIT FROM A HIGHER RESERVE TARGET?**

17 **A** No. As explained above, the current \$8 million contribution and the current storm
18 reserve target of \$64 million are more than sufficient to cover all but the most
19 severe storms. Finally, the risk of non-recovery for storm damage restoration
20 costs will remain with customers because if a catastrophic storm or storms strike
21 TECO's service territory, customers will be surcharged to allow TECO to recover
22 restoration in excess of the storm reserve balance.

23 **Q IS AN INCREASE IN THE RESERVE NECESSARY TO MAINTAIN THE**
24 **STATUS QUO?**

1 A No. The current reserve balance is sufficient to cover all Category 1 hurricanes,
2 as well as all but the most severe Category 2 hurricanes. In fact, at the EAD
3 chargeable to the reserve each year, the reserve balance is sufficient to provide
4 coverage for almost three years. Thus, it is not necessary to increase the current
5 target level, and in fact, it would be sufficient for some years even if the accruals
6 were stopped.

7 **Q WHAT WOULD BE THE IMPACT ON THE STORM RESERVE IF ACCRUALS**
8 **WERE STOPPED ENTIRELY?**

9 A Over time, the level of the reserve will decline. However, absent a direct strike in
10 the most populated portion of TECO's service territory, the current reserve
11 balance may be sufficient to cover the EAD funded from the reserve for a number
12 of years. If losses remain at the levels experienced over the 2005-2012 period,
13 the current reserve is more than capable of supporting storm recovery for several
14 years, without any further customer contributions.

15 **Q SHOULD THE COMPANY REVISE ITS STORM RESERVE ANALYSIS IN THE**
16 **NEXT RATE CASE?**

17 A Yes. Since the present analysis addresses all manner and strength of storms up
18 to and including the most severe and damaging storms and excludes any
19 benefits of the storm hardening program, the Commission should require that any
20 subsequent study consider alternative levels of storm damage. Any subsequent
21 study should evaluate the reserve performance taking into account only Category
22 1 (and potentially Category 2) storms. This approach gives recognition to the
23 framework for addressing storm restoration costs – which recognizes that the
24 annual accrual and reserve balance are not intended to cover the most

1 destructive storms. A future analysis should also expressly consider in detail
2 how storm hardening efforts have reduced the risk of damage from hurricane or
3 tropical storm events and the need to accrue monies for storm reserves.

4 **Q PLEASE SUMMARIZE YOUR RECOMMENDATION.**

5 A The storm reserve target should not be increased. The current reserve balance is
6 sufficient to provide for coverage of the EAD funding from the reserve and also
7 provides coverage for all Category 1 storms. Thus, TECO should stop accruing
8 to the storm reserve. A revised study should be submitted when TECO next files
9 a rate case or seeks to re-institute the storm reserve accrual and collection that
10 shows what an appropriate reserve target is assuming coverage of *most*
11 (Category 1 and 2) storms instead of *all* levels of storms.

12 **Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

13 A Yes.

1 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND OCCUPATION.**

2 A. My name is Steve W. Chriss. My business address is 2001 SE 10th St.,
3 Bentonville, AR 72716-0550. I am employed by Wal-Mart Stores, Inc.
4 ("Walmart") as Senior Manager, Energy Regulatory Analysis.

5 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS DOCKET?**

6 A. I am testifying on behalf of the Florida Retail Federation ("FRF"), a statewide
7 trade association of more than 8,000 of Florida's retailers, many of whom are
8 retail customers of Tampa Electric Company ("TECO").

9 **Q. PLEASE DESCRIBE YOUR EDUCATION AND EXPERIENCE.**

10 A. In 2001, I completed a Masters of Science degree in Agricultural Economics at
11 Louisiana State University. From 2001 to 2003, I was an Analyst and later a
12 Senior Analyst at the Houston office of Econ One Research, Inc., a Los Angeles-
13 based consulting firm. My duties included research and analysis on domestic
14 and international energy and regulatory issues. From 2003 to 2007, I was an
15 Economist and later a Senior Utility Analyst at the Public Utility Commission of
16 Oregon in Salem, Oregon. My duties included appearing as a witness for PUC
17 Staff in electric, natural gas, and telecommunications dockets. I joined the
18 energy department at Walmart in July 2007 as Manager, State Rate Proceedings,
19 and was promoted to my current position in June 2011. My Witness
20 Qualifications Statement is included herein as Exhibit SWC-1.

1 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE THE FLORIDA PUBLIC**
2 **SERVICE COMMISSION ("COMMISSION")?**

3 **A. Yes. I submitted testimony in Docket Nos. 110138-EI, the 2011 Gulf Power**
4 **Company ("Gulf") general rate case, and 120015-EI, the 2012 Florida Power &**
5 **Light Company ("FP&L") general rate case.**

6 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE OTHER STATE**
7 **REGULATORY COMMISSIONS?**

8 **A. Yes. I have submitted testimony in over 75 proceedings before 31 other utility**
9 **regulatory commissions and before the Missouri House Committee on Utilities**
10 **and the Missouri Senate Committee on Veterans' Affairs, Emerging Issues,**
11 **Pensions, and Urban Affairs. My testimony has addressed many subjects,**
12 **including cost of service and rate design, ratemaking policy, qualifying facility**
13 **rates, telecommunications deregulation, resource certification, energy**
14 **efficiency, conservation, and demand side management, fuel cost adjustment**
15 **mechanisms, decoupling, and the collection of cash earnings on construction**
16 **work in progress.**

17 **Q. ARE YOU SPONSORING ANY EXHIBITS WITH YOUR TESTIMONY?**

18 **A. Yes. I am sponsoring the following exhibits to my testimony:**
19 **Exhibit SWC-1: Witness Qualifications Statement of Steve W. Chriss**
20 **Exhibit SWC-2: Calculation of Test Year Jurisdictional Revenues Collected**
21 **through Base Rates**

1 Exhibit SWC-3: Reported Authorized Returns on Equity, Electric Utility Rates
2 Cases Completed in 2012 and 2013

3 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

4 A. The purpose of my testimony is to provide a customer perspective on TECO's
5 proposed rate increase and to explain the FRF's concerns regarding the
6 Company's return on equity ("ROE") and rate base proposals.

7 **Q. PLEASE SUMMARIZE YOUR RECOMMENDATIONS TO THE COMMISSION.**

8 A. My recommendations to the Commission are as follows:

- 9 1) The Commission should reject TECO's request to include \$174.1 Million of
10 CWIP in rate base. If, however, the Commission determines it necessary to
11 include any CWIP in rate base, it should ensure that the shift of risk from the
12 Company to ratepayers through the inclusion of CWIP in rate base is
13 reflected in the ROE approved in this docket, such that as the level of CWIP is
14 increased from zero, ROE is accordingly reduced.
- 15 2) In setting the ROE for TECO, the Commission should closely examine the
16 Company's proposed revenue increase in light of what appears to be an
17 excessive proposed return on equity and the risk reduction due to the
18 collection of over half of the Company's jurisdictional revenues outside of
19 base rates, the Company's use of a projected test year, and the Company's
20 proposal to include CWIP in rate base.
- 21 3) The Commission should carefully consider the impacts of any increase on
22 customers.

1 The fact that an issue is not addressed should not be construed as an
2 endorsement of any filed position.

3 **Q. GENERALLY, WHY ARE UTILITY CUSTOMERS, INCLUDING RETAILERS AND**
4 **OTHER COMMERCIAL CUSTOMERS, CONCERNED ABOUT TECO'S PROPOSED**
5 **RATE INCREASE?**

6 A. Electricity represents a significant portion of retailers' operating costs. When
7 rates increase, that increase in cost to retailers puts pressure on consumer prices
8 and on the other expenses required by a business to operate, which impacts
9 retailers' customers and employees. Rate increases also directly impact
10 retailers' customers, who are also TECO's residential and small business
11 customers. FRF recognizes TECO's duty to provide reliable and adequate service
12 to its customers and that there are costs required to do so, including a
13 reasonable return on the Company's used and useful capital investments.
14 However, given current economic conditions, a rate increase is a serious concern
15 for retailers and their customers and the Commission should consider these
16 impacts thoroughly and carefully in ensuring that any increase in TECO's rates is
17 only the minimum amount necessary to provide adequate and reliable service at
18 the lowest possible cost.

19 **Q. WHAT REVENUE REQUIREMENT INCREASE HAS THE COMPANY PROPOSED IN**
20 **ITS FILING?**

21 A. The Company has proposed a total base rate revenue requirement increase of
22 approximately \$134.8 million. See MFR Schedule A-1. The Company's proposed

1 increase includes base rate increases of approximately \$133.6 million per year
2 and increases in service charges and fees of approximately \$1.2 million per year.

3 See Tampa Electric's Petition at page 6.

4 **Q. WHAT IS THE COMPANY'S PROPOSED ROE IN THIS DOCKET?**

5 A. The Company is proposing an after-tax ROE of 11.25 percent and a range of 10.5
6 percent to 11.5 percent. See Direct Testimony of Robert B. Hevert, page 3, line
7 17 to line 21. Applying the Company's proposed Net Operating Income
8 multiplier (1.6322, from MFR A-1) to this return indicates that TECO is requesting
9 a before-tax ROE of 18.36 percent.

10 **Q. IS FRF CONCERNED THAT THE PROPOSED ROE IS EXCESSIVE?**

11 A. Yes. FRF is concerned that the Company's proposed ROE is excessive, especially
12 given the current economic conditions faced by the utility's customers, as well as
13 when viewed in light of (1) the percentage of jurisdictional revenues collected
14 through base rates relative to the percentage of the Company's costs that are
15 recovered through cost recovery rider charges, such as Fuel and Purchased
16 Power Cost Recovery, Environmental Cost Recovery, and Energy Conservation
17 Cost Recovery, (2) the use of a projected test year, and (3) the Company's
18 proposal to include \$174.1 million of CWIP in rate base. Finally, the proposed
19 ROE is significantly higher than ROEs recently approved by the Commission and
20 by other commissions nationwide.

1 **Q. FOR THE COMPANY'S PROPOSED 2014 TEST YEAR, WHAT PERCENT OF**
2 **JURISDICTIONAL REVENUES ARE PROPOSED TO BE COLLECTED THROUGH BASE**
3 **RATES?**

4 **A. Only 48.8 percent, or less than half of TECO's jurisdictional revenues for the**
5 **proposed 2014 test year, would be collected through base rates and would be**
6 **essentially at risk due to forecast error or regulatory lag. See Exhibit SWC-2. As**
7 **such, over half of the Company's revenues would be collected outside of base**
8 **rates through cost recovery rider charges that are reset annually.**

9 **Q. ARE THERE ANY OTHER FACETS OF THE COMPANY'S PROPOSAL IN THIS**
10 **DOCKET THAT COULD REDUCE TECO'S EXPOSURE TO REGULATORY LAG?**

11 **A. Yes. The use of a projected test year reduces the risk due to regulatory lag**
12 **because, as the Commission has previously stated, "the main advantage of a**
13 **projected test year is that it includes all information related to rate base, NOI,**
14 **and capital structure for the time new rates will be in effect." See Order No.**
15 **PSC-02-0787-FOF-EI, page 9. As such, the Commission should carefully consider**
16 **the level of ROE justified by the Company's reduced exposure to regulatory lag.**

17 **Q. DOES THE COMPANY PROPOSE TO INCLUDE CONSTRUCTION WORK IN**
18 **PROGRESS ("CWIP") IN ITS RATE BASE?**

19 **A. Yes. The Company has proposed to include approximately \$174.1 million of**
20 **CWIP in rate base. See MFR Schedule B-1, page 1. This is an increase of**
21 **approximately \$53 million from the CWIP included in rate base for projected**
22 **prior year 2013. See MFR Schedule B-1, page 2.**

1 **Q. IS THE INCLUSION OF CWIP IN RATE BASE OF CONCERN TO FRF?**

2 **A. Yes. The inclusion of CWIP in rate base charges ratepayers for assets that are**
3 **not used and useful in the provision of electric service. Under the Company's**
4 **proposal ratepayers would pay for the assets during a period when they are not**
5 **receiving any benefits from those assets, so the matching principle (i.e.**
6 **customers bearing costs only when they are receiving a benefit) is not satisfied.**
7 **In this case, TECO's customers in 2014, the test year that the Company chose for**
8 **its rate increase request, would pay for assets that do not provide service yet –**
9 **i.e., assets that are not used and useful – during that test year. The problem is**
10 **compounded by changes in the number of customers during the construction**
11 **process. For example, customers may pay for the assets during construction but**
12 **leave the system before they are operational, receiving no benefit from the**
13 **assets for which they helped pay.**

14 **Q. IS THERE ANOTHER CONCERN WITH THE INCLUSION OF CWIP IN RATE BASE**
15 **THAT THE COMMISSION SHOULD CONSIDER?**

16 **A. Yes. Including CWIP in rate base shifts the risks traditionally assumed by**
17 **investors, for which they are compensated through the rate of return elements**
18 **once the plant is in service, and instead places the risks squarely on the**
19 **shoulders of ratepayers with no offer of compensation. Additionally, should the**
20 **Company encounter problems during construction of the plant resulting in**
21 **stoppage of the construction, non-completion of the project and/or substantial**

1 delay in the completion of the project, consumers have no recourse for
2 recovering the money they have paid for the inclusion of CWIP in rate base.

3 **Q. WHAT IS YOUR UNDERSTANDING OF HOW, UNDER TRADITIONAL REGULATORY**
4 **PRACTICES, TECO WOULD RECOVER THE COSTS OF THE ASSETS THAT WILL,**
5 **ACCORDING TO TECO, BE UNDER CONSTRUCTION BUT NOT COMPLETED**
6 **DURING THE COMPANY'S CHOSEN TEST YEAR?**

7 **A. Under traditional regulatory practices, TECO would add the assets to its rate**
8 **base accounts if and when they were completed. They would then be reflected**
9 **in the rate base and depreciation accounts in TECO's earnings surveillance**
10 **reports and would, other things equal, lower TECO's achieved ROE. If and when**
11 **TECO's earnings (i.e., its ROE) were to fall to a level that TECO believed was**
12 **insufficient to enable it to provide adequate and reliable service, TECO would ask**
13 **for a rate increase that would include the value of the assets in some future test**
14 **year.**

15 **Q. WHAT IS FRF'S RECOMMENDATION TO THE COMMISSION REGARDING THE**
16 **INCLUSION OF CWIP IN RATE BASE?**

17 **A. The Commission should reject TECO's request to include \$174.1 Million of CWIP**
18 **in rate base. If, however, the Commission determines it necessary to include any**
19 **CWIP in rate base, it should ensure that the shift of risk from the Company to**
20 **ratepayers through the inclusion of CWIP is reflected in the ROE approved in this**
21 **docket, such that as the level of CWIP is increased from zero, ROE is accordingly**
22 **reduced.**

1 **Q. WHAT IS YOUR UNDERSTANDING OF THE RETURNS ON EQUITY RECENTLY**
2 **APPROVED BY THE COMMISSION?**

3 **A. My understanding is that the Commission approved a ROE of 10.25 percent for**
4 **Gulf in Docket No. 110138-EI and a ROE of 10.5 percent for FP&L in Docket No.**
5 **120015-EI. See Order No. PSC-12-0179-FOF-EI, April 12, 2012, page 52 and Order**
6 **No. PSC-13-0023-S-EI, page 5. Both of these are significantly lower than TECO's**
7 **proposed ROE of 11.25 and, as I will discuss in more detail below, the FP&L ROE**
8 **was the highest ROE awarded nationwide after January, 2012. See Exhibit SWC-**
9 **3.**

10 **Q. WHAT IS YOUR UNDERSTANDING OF THE RETURNS ON EQUITY APPROVED BY**
11 **COMMISSIONS NATIONWIDE IN 2012 AND IN 2013 THUS FAR?**

12 **A. According to data from SNL Financial, a financial news and reporting company,**
13 **the average of the 65 reported electric utility rate case ROEs authorized by**
14 **commissions to investor-owned electric utilities in 2012 and so far in 2013 is 9.97**
15 **percent. The range of reported authorized ROEs for the period is 9.00 percent to**
16 **10.5 percent, and the median authorized ROE is 10 percent. *Id.*, page 2. Both**
17 **the average and median values are significantly below the Company's proposed**
18 **ROE of 11.25 percent and even below 10.5 percent, the low end of the**
19 **Company's proposed range. See Direct Testimony of Robert B. Hevert, page 3,**
20 **line 17 to line 21.**

21

1 **Q. SEVERAL OF THE REPORTED AUTHORIZED ROES ARE FOR DISTRIBUTION-ONLY**
2 **UTILITIES OR FOR ONLY THE UTILITY'S DISTRIBUTION SERVICE RATES. WHAT IS**
3 **THE AVERAGE AUTHORIZED ROE IN THE REPORTED GROUP FOR THE**
4 **VERTICALLY INTEGRATED UTILITIES?**

5 **A. In the group reported by SNL Financial, the average authorized ROE for vertically**
6 **integrated utilities is 10.05 percent. See Exhibit SWC-3, page 2. This is**
7 **essentially equal to the 9.97 percent value for the total group, and still**
8 **significantly below TECO's request.**

9 **Q. HAS THE COMMISSION FOUND THAT AUTHORIZED ROES FROM COMMISSIONS**
10 **IN OTHER JURISDICTIONS SERVE AS A GAUGE TO TEST THE REASONABLENESS**
11 **OF A UTILITY'S ROE?**

12 **A. Yes. See Order No. PSC-12-0179-FOF-EI, April 12, 2012, page 52. As such, while**
13 **FRF recognizes that the ROE approved for TECO in this docket will be based on**
14 **an independent assessment of the testimony and evidence in the record, FRF**
15 **supports the use of ROE decisions from other jurisdictions as a gauge to test the**
16 **reasonableness of the ROE to be used in setting TECO's retail rates.**

17 **Q. WHAT IS YOUR RECOMMENDATION TO THE COMMISSION REGARDING**
18 **RETURN ON EQUITY?**

19 **A. In setting the ROE for TECO, the Commission should closely examine the**
20 **Company's proposed revenue increase in light of what appears – specifically in**
21 **light of recent decisions by this Commission and by many other state regulatory**
22 **commissions – to be an excessive proposed return on equity and the risk**

1 reduction due to the collection of over half of the Company's jurisdictional
2 revenues outside of base rates, the Company's use of a projected test year, and
3 the Company's proposal to include CWIP in rate base. The Commission should
4 also carefully consider the impacts of any increase on all customers.

5 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

6 **A. Yes.**

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BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

In Re: Petition for Rate Increase by Tampa Electric Company))))	Docket No. 130040-EI
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Direct Testimony of Michael P. Gorman

Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140, Chesterfield, MO 63017.

Q WHAT IS YOUR OCCUPATION?

A I am a consultant in the field of public utility regulation and a Managing Principal of Brubaker & Associates, Inc., energy, economic and regulatory consultants.

Q PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.

A This information is included in Appendix A to my testimony.

Q ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?

A I am appearing in this proceeding on behalf of the Federal Executive Agencies ("FEA").

1 **Q ARE YOU SPONSORING ANY EXHIBITS IN CONNECTION WITH THIS**
2 **TESTIMONY?**

3 A Yes. I am sponsoring Exhibit MPG-2 through Exhibit MPG-22.

4
5 **Q WHAT IS THE SUBJECT OF YOUR DIRECT TESTIMONY?**

6 A In my testimony I make several recommendations concerning Tampa Electric
7 Company's ("Tampa Electric" or "Company") rate filing in this proceeding. These
8 recommendations include the following:

- 9 1. I recommend a fair overall rate of return and return on common equity
10 used to set Tampa Electric's revenue requirement in this proceeding.
11 2. I recommend an adjustment to the residential sales revenue at current
12 rates.

13

14

SUMMARY

15 **Q PLEASE SUMMARIZE YOUR RATE OF RETURN RECOMMENDATIONS.**

16 A I recommend the Florida Public Service Commission (the "Commission") award
17 Tampa Electric a return on common equity of 9.25%, and an overall rate of return
18 of 5.66~~5~~%. Exhibit MPG-1.

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My recommended overall rate of return also reflects a revised synchronization of rate base and capital structure used to develop the overall rate of return. The Company's proposed capital structure allocates rate base pro forma additions across all capital components, both investor capital and ratepayer-supplied capital, in proportion to their mix of the overall capital. In my proposed capital structure, I allocate all customer-supplied capital to the capital structure used to develop rates and allocate the pro forma rate base adjustments

1 across only investor capital components. This revised allocation provides a
2 direct allocation of customer-supplied capital to the development of Tampa
3 Electric's cost of providing utility service to those same customers. In significant
4 contrast, the Company's proposal retains a portion of customer-supplied zero-
5 cost capital components for benefit of its investors, rather than passing the full
6 benefits of zero-cost customer-supplied capital to development of the overall rate
7 of return in this proceeding.

8

9 **Q WILL YOUR OVERALL RATE OF RETURN SUPPORT TAMPA ELECTRIC'S**
10 **CURRENT FINANCIAL INTEGRITY AND INVESTMENT GRADE BOND**
11 **RATING?**

12 **A** Yes. My recommended return on equity and proposed capital structure will
13 provide Tampa Electric with an opportunity to realize cash flow financial
14 coverages and balance sheet strength that conservatively support Tampa
15 Electric's current bond rating. Consequently, my recommended return on equity
16 represents fair compensation for Tampa Electric's investment risk, and it will
17 preserve the Company's financial integrity and credit standing.

18

19 **Q WILL YOU RESPOND TO TAMPA ELECTRIC WITNESS MR. ROBERT**
20 **HEVERT'S RECOMMENDED OVERALL RATE OF RETURN IN THIS**
21 **PROCEEDING?**

22 **A** Yes. I will also respond to Mr. Hevert's proposed return on equity of 11.25%.
23 For the reasons discussed below, Mr. Hevert's recommended return on equity is
24 excessive and should be rejected.

25

1 **Q HOW DID YOU ESTIMATE TAMPA ELECTRIC'S CURRENT MARKET COST**
2 **OF EQUITY?**

3 A I performed analyses using three Discounted Cash Flow ("DCF") models, a Risk
4 Premium study, and a Capital Asset Pricing Model ("CAPM"). These analyses
5 used a proxy group of publicly traded companies that have investment risk
6 similar to Tampa Electric. Based on the results from these assessments, I
7 estimate Tampa Electric's current market cost of equity to be 9.25%.

8
9 **Q WHAT IS THE IMPACT ON TAMPA ELECTRIC'S REVENUE REQUIREMENT**
10 **BASED ON YOUR RECOMMENDED RETURN ON EQUITY AND CAPITAL**
11 **STRUCTURE ADJUSTMENT?**

12 A The Florida revenue requirement impact of my recommended 9.25% return on
13 equity and revised capital structure is \$73.675.5 million.

14
15 **Q PLEASE SUMMARIZE YOUR PROPOSED ADJUSTMENT TO RESIDENTIAL**
16 **SALES REVENUE AT CURRENT RATES.**

17 A I am proposing an increase in residential sales revenue at current rates of
18 \$12.5 million. This adjustment reflects my assessment that Tampa Electric has
19 understated the amount of sales for the 2014 test year for an increased number
20 of residential customers.

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<u>Description</u>	<u>Current Case</u>	<u>Docket No.</u> <u>080317-EI</u>	<u>Yield</u> <u>Change</u>
"A" Rated Utility Bond Yields	4.19%	6.44%	(2.25%)
"Baa" Rated Utility Bond Yields	4.69%	7.97%	(3.28%)
13-Week Period Ending	06/21/2013	04/30/2009	
Source:			
Exhibit MPG-14, page 1.			

Tampa Electric's current Standard & Poor's ("S&P") and Moody's bond ratings are "BBB+" and "A3," respectively. As shown in the table above, the current market cost of debt for "A" (by S&P) and "Baa" (by Moody's) rated utility bond yields has significantly decreased in this case relative to Tampa Electric's last rate case. The current "A" and "Baa" rated utility bond yields are approximately 200 and 300 percentage points lower, respectively, now than they were in Tampa Electric's last rate case.

The material decline in utility bond yields is observable market evidence that capital market costs today are significantly lower than they were during the time of Tampa Electric's last rate case. My recommended return on equity reflects this material decline to capital market costs for relatively low risk regulated electric utility companies like Tampa Electric.

1 **Electric Utility Industry Market Outlook**

2 **Q PLEASE DESCRIBE THIS SECTION OF YOUR TESTIMONY.**

3 **A** I begin my estimate of a fair return on equity for Tampa Electric by reviewing the
4 market's assessment of electric utility industry investment risk, credit standing,
5 and stock price performance in general. I used this information to get a sense of
6 the market's perception of the risk characteristics of electric utility investments in
7 general, which is then used to produce a refined estimate of the market's return
8 requirement for assuming investment risk similar to Tampa Electric's utility
9 operations.

10 Based on the assessments described below, I find the credit rating
11 outlook of the industry to be strong and supportive of the industry's financial
12 integrity, and electric utilities' stocks have exhibited strong price performance
13 over the last several years.

14 Further, the electric utility industry in general is in a large capital
15 expenditure portion of its cycle, which is creating significant demands for external
16 capital in order to support large capital improvement programs. Credit rating
17 agencies and market participants have embraced the utilities' need for significant
18 amounts of external capital by meeting the capital market demands of electric
19 utilities at near historical low capital market costs. All of this supports my belief
20 that Tampa Electric should have sufficient access to capital to support its major
21 capital program, and relatively moderate capital costs are currently available and
22 expected to be available for the next several years.

23 Based on this review of credit outlooks and stock price performance, I
24 conclude that the market continues to embrace the electric utility industry as a

1 safe-haven investment, and views utility equity and debt investments as low-risk
2 securities.

3

4 **Q PLEASE DESCRIBE ELECTRIC UTILITIES' CREDIT RATING OUTLOOK.**

5 A Electric utilities' credit rating outlook has improved over the recent past and is
6 stable. S&P recently provided an assessment of the credit rating of U.S. electric
7 utilities. S&P's commentary included the following:

8 **Effect on ratings**

9 Notwithstanding the slow economic recovery, credit quality in the
10 domestic utility industry has continued a long shift to greater
11 stability, and even modest improvement in some cases, especially
12 as many companies re-emphasize their core competencies.

13 * * *

14 **Industry Ratings Outlook**

15 **Good access to funding expected to continue**

16 Liquidity is adequate for most utilities and investor appetite for
17 utility debt remains healthy, with deals continuing to be
18 oversubscribed at very attractive rates. The amount of medium- to
19 long-term debt and hybrid securities issued through the three
20 months ended March 31, 2013 was about \$8.7 billion. Credit
21 fundamentals indicate that most, if not all, utilities should continue
22 to have ample access to funding sources and credit. The relative
23 certainty of financial performance provided by the regulatory
24 framework under which utilities operate, their effective monopoly
25 position, long-lived assets, and the financing necessary to fund

1 these assets are all factors that make the utility sector attractive to
2 investors. These elements have also helped utilities more
3 effectively manage their rate-relief needs and mitigate the effect of
4 sizable rate increases on customers.²

5

6 Similarly, Fitch states:

7

Rating Outlook

8

Flat Growth Base Case: Fitch Ratings expects overall stable
9 ratings for issuers within the U.S. Power and Gas Utility sector in
10 2013 despite modest deterioration in operating environment.

11

* * *

12

Stable Regulation but Authorized ROEs Trending Down

13

Fitch expects the downward pressure on authorized ROEs for
14 regulated utilities to persist in tandem with falling interest rates in
15 the economy. Lower ROEs are also associated with features
16 increasingly common in tariff structures that minimize cash flow
17 volatility. Many state regulators are awarding lower ROEs as an
18 offset to awarding special tariff mechanisms such as revenue
19 decoupling, forward test year, rate-adjustment trackers[,] etc.

20

* * *

21

Strong Liquidity Conditions to Prevail

22

Fitch expects the power and gas utility sectors to continue to enjoy
23 strong capital market access. Low interest rates due to

²Standard & Poor's Ratings Direct. "Industry Report Card: Stable-To-Modestly Improved Industry Outlook Supports Ratings For U.S. Regulated Electric, Gas, And Water Utilities," April 19, 2013 at 3-4 and 6-7, emphasis added.

1 sheets are generally strong and utilities have access to a diverse
2 range of funding sources. The industry weathered the storm of
3 the 2008/2009 financial crisis by postponing optional capex
4 projects and finding cost savings where possible without
5 jeopardizing service quality. Today's economic backdrop is much
6 improved from that period, and with interest rates at multi-decade
7 lows and investors of all types hungry for yield, the capital markets
8 are wide open for most economic sectors, including utilities. The
9 execution risk inherent in managing large, complex construction
10 projects in a way that addresses the interests of both shareholders
11 and regulators seems far more pronounced than financing risk.⁴

12

13 **Q PLEASE DESCRIBE ELECTRIC UTILITY STOCK PRICE PERFORMANCE**
14 **OVER THE LAST SEVERAL YEARS.**

15 **A As shown in the graph below, the EEI has recorded electric utility stock price**
16 **performance compared to the market. The EEI data shows that its Electric Utility**
17 **Index has outperformed the market in downturns and trailed the market during**
18 **recovery. This supports my conclusion that utility stock investments are**
19 **regarded by market participants as a moderate to low-risk investment.**

20

21

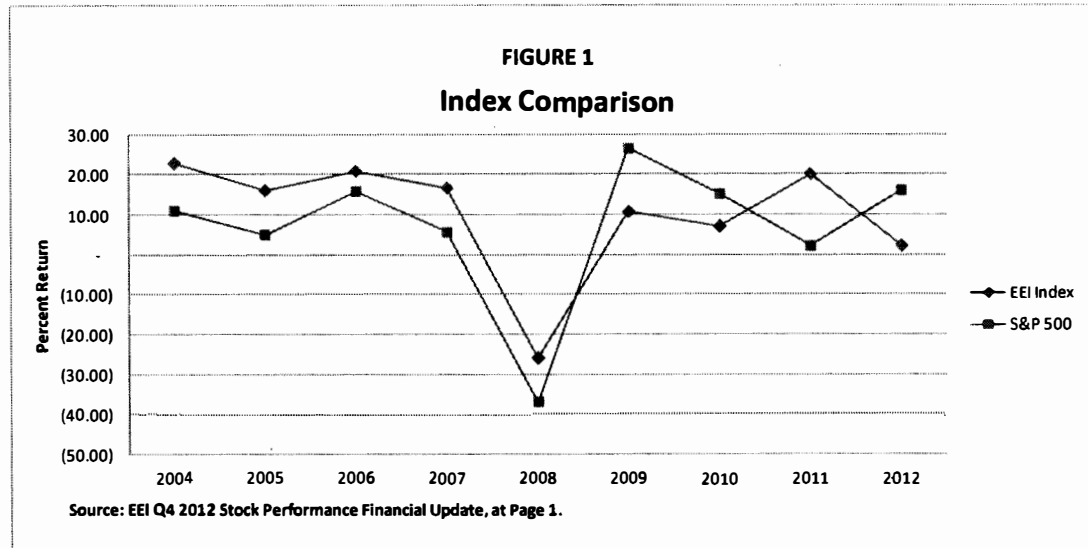
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⁴EEI Q3 2012 Financial Update "Stock Performance" at 5, emphasis added.

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EEI describes electric utility stock price/valuation as sustainable:

Mixed Valuation Signals

The broad market's gains during Q3 along with the EEI Index's flat performance removed some of the richness to utility share valuations that several analysts noted at the end of Q2. Indeed, the magnitude of underperformance for the first nine months of 2012 is similar to that which occurred during the same period of 2009, after markets bottomed and then recovered from the losses produced by the financial crisis. As the market recovery continued in 2010, with 14% to 17% gains, the staid utility sector's 7% return could not keep pace. Yet when 2011 produced worries of economic slowdown, the worsening of the European debt crisis and the summer's woefully memorable deficit gridlock and S&P downgrade of U.S. Treasury debt in August — along with sharply falling

1 interest rates — the EEI Index powered forward with a
2 20% return against single-digit gains across the broader
3 markets.

4 With the industry business models now set on
5 regulated or mostly regulated structures, and with slow
6 growth in earnings and dividends as the main appeal for
7 investors, such periodic reversals of fortune, driven by
8 changing economic prospects and investor sentiments,
9 seem likely to continue. Interest rates are now at multi-
10 decade lows and while analysts still cite utility
11 price/earnings ratios as above average, 4% dividend yields
12 give utility shares considerable price support relative to the
13 lower yields available from bonds.⁵

14

15 **Q WHAT ARE THE IMPORTANT TAKEAWAY POINTS FROM THIS**
16 **ASSESSMENT OF ELECTRIC UTILITY INDUSTRY CREDIT AND**
17 **INVESTMENT RISK OUTLOOKS?**

18 **A** Credit rating agencies consider the electric utility industry to be stable and
19 believe investors will continue to provide an abundance of capital to support
20 utilities' large capital programs and at moderate capital costs. All of this supports
21 the continued belief that electric utility investments are generally regarded as
22 safe-haven or low-risk investments, and the market embraces low-risk
23 investments – like utility investments. The demand for low-risk investments will
24 provide funding for electric utilities in general.

⁵*Id.* at 6, emphasis added.

1 **Tampa Electric Investment Risk**

2 **Q PLEASE DESCRIBE THE MARKET'S ASSESSMENT OF THE INVESTMENT**
3 **RISK OF TAMPA ELECTRIC.**

4 **A** The market assessment of Tampa Electric's investment risk is best described by
5 credit rating analysts' reports. Tampa Electric's current corporate bond ratings
6 from S&P and Moody's are "BBB+" and "A3," respectively. Both rating agencies
7 have a Stable outlook for Tampa Electric.⁶

8 Specifically, S&P states the following:

9 **Rationale**

10 Standard & Poor's Ratings Services bases its ratings on
11 Tampa Electric Co. on the consolidated credit profile of
12 parent company TECO Energy Inc. The ratings reflect the
13 company's commitment to its credit quality after shedding
14 some of its unregulated businesses, restoring its balance
15 sheet, and focusing on better financial performance
16 through regulatory initiatives and cost controls amid a
17 difficult economy. The company's business profile is
18 "excellent" and its financial risk profile is "significant". (See
19 "Criteria Methodology: Business Risk/Financial Risk Matrix
20 Expanded," published on May 27, 2009, on RatingsDirect.)
21 TECO's business strategy centers on the operations of its
22 high-quality electric and gas utilities in historically high-
23 growth areas of Florida. The utilities effectively manage
24 regulatory risk. Continued exposure to elevated business

⁶Callahan Direct at 15.

1 risk in ventures outside of Florida, including coal-mining
2 operations in Appalachia and electric generation overseas,
3 detracts from credit quality. The utilities exhibit excellent
4 credit characteristics: relatively healthy service territories,
5 supportive regulation, and stable cash flow and earnings.

6 * * *

7 We view the company's regulatory risk as low. The electric
8 utility supplies a large proportion of energy from its own
9 portfolio of power plants, which is evenly divided between
10 coal and gas-fired.⁷

11
12 Similarly, Moody's states:

13 SUMMARY RATING RATIONALE

14 TEC's A3 unsecured rating reflects its stable and
15 supportive regulatory framework and strong financial credit
16 metrics. The rating incorporates a view that the financial
17 credit metrics will soften in 2013, before rate relief
18 expected in early 2014.⁸

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⁷Standard & Poor's RatingsDirect: "Summary: Tampa Electric Co.," December 13, 2012 at 1-2, provided by Tampa Electric in response to OPC's Fourth Request for PODs, POD No. 26, Bates Nos. 294-295.

⁸Moody's Investors Service Credit Opinion: "Tampa Electric Company," May 6, 2013, provided by Tampa Electric in response to OPC's Fourth Request for PODs, POD No. 26, Bates Nos. 303-304, emphasis added.

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Fitch states:

Key Rating Drivers

Ratings Affirmed and Stable: Fitch Ratings affirmed the ratings of Tampa Electric Company (Tampa Electric) and its parent, TECO Energy, Inc. (TECO, issuer default rating [IDR] 'BBB') on March 23, 2012.

* * *

Strong Utility Operations: Tampa Electric's stand-alone financial and operational performance has been strong and supports the ratings. The utility has effectively managed operations and maintenance costs throughout the recession while continuing to safely operate the system. Financial results have been consistent, and benefited from both the cost savings efforts and the recent base rate increases.

* * *

Parent Ratings Linkage: Tampa Electric's ratings are linked to that of its parent, TECO, whose credit profile includes greater leverage and higher business risk.⁹

⁹*FitchRatings Corporates*: "Tampa Electric Company," April 16, 2012, provided by Tampa Electric in response to OPC's Fourth Request for PODs, POD No. 26, Bates No. 255.

1 **Tampa Electric's Proposed Capital Structure**

2 **Q WHAT CAPITAL STRUCTURE IS THE COMPANY REQUESTING TO USE TO**
 3 **DEVELOP ITS OVERALL RATE OF RETURN FOR ELECTRIC OPERATIONS**
 4 **IN THIS PROCEEDING?**

5 **A** Tampa Electric's December 2014 forecasted regulatory capital structure, as
 6 supported by Tampa Electric witness Ms. Sandra W. Callahan, is shown below in
 7 Table 2.

8

9 **TABLE 2**

10 **Tampa Electric's Proposed**
Capital Structure

<u>Description</u>	<u>Regulatory Capital Structure (1)</u>	<u>Investors' Capital Structure (2)</u>
Long-Term Debt	35.15%	45.08%
Customer Deposits	2.60%	—
Common Equity	42.26%	54.19%
Short-Term Debt	0.57%	0.73%
Deferred Income Tax	19.24%	—
Investment Tax Credit	<u>0.18%</u>	<u>—</u>
Total Capital Structure	100.00%	100.00%

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18 Source: MFR Schedule D-1a.

19

20

21 **Q IS TAMPA ELECTRIC'S PROPOSED CAPITAL STRUCTURE REASONABLE?**

22 **A** No. Tampa Electric's proposed capital structure misallocates customer-supplied
 23 capital in the development of the overall rate of return for jurisdictional
 24 operations. In reconciling its jurisdictional rate base with its jurisdictional capital
 25 structure, Tampa Electric allocates pro forma rate base adjustments to the capital

1 structure by spreading these adjustments equally over both investor-supplied
2 capital and customer-supplied capital.

3 Customer-supplied capital includes deferred taxes and customer
4 deposits. Deferred taxes are a zero-cost capital component, and customer
5 deposits have a relatively low interest rate as prescribed by the Commission.
6 These low-cost customer-supplied capital components should be used
7 exclusively to fund jurisdictional rate base. If they are not, then a portion of the
8 customer-supplied low-cost capital components will be used to benefit investors
9 rather than exclusively jurisdictional customers.

10

11 **Q HOW DO YOU PROPOSE TO ADJUST THE COMPANY'S PROPOSED**
12 **CAPITAL STRUCTURE?**

13 **A** The Company develops its proposed capital structure on its Schedule D-1a, page
14 1. On that schedule under column 6, the Company proposes to spread its pro
15 rata adjustments equally over investor capital and customer-supplied capital. I
16 recommend to modify this spread of pro rata adjustments to only investor-
17 supplied capital. All customer-supplied capital should be fully allocated to
18 jurisdictional cost of service to ensure customers get full benefit of the low-cost
19 capital they provide the Company.

20 I developed this revised capital structure on my Exhibit MPG-1. As
21 shown on this exhibit, this revised capital structure mix produces a common
22 equity ratio of total capital of 40.5135%. In comparison, the Company's
23 proposed capital structure produces a common equity ratio of 42.26%. Again,
24 the difference in capital structures reflects my recommendation to allocate 100%
25 of the customer-supplied low-cost capital to jurisdictional cost of service.

1 Q **WHY SHOULD CUSTOMERS RECEIVE THE FULL BENEFIT OF CUSTOMER-
2 SUPPLIED CAPITAL?**

3 A Customers should receive the full benefit of customer-supplied capital because
4 this is actual cash proceeds provided to the Company from customers that have
5 been retained by the Company to fund its invested cost of utility operations.

6 Accumulated deferred income taxes reflect the Company's collection of
7 income tax expense, from customers that temporarily exceeds its current income
8 tax liability.

9 As the Company's income tax liability comes due over time, the deferred
10 tax collections will ultimately be paid to government taxing authorities. In the
11 interim, the Company is permitted to retain the prepaid tax accruals as zero-cost
12 capital which is used to fund plant and equipment.

13 Since customers provide the deferred tax proceeds, customers should
14 receive a full benefit of the cost savings.

15 Customer deposits are also funds available to the Company to support its
16 investment in utility plant and equipment. These funds do have a prescribed
17 interest rate which is included in Tampa Electric's cost of service. Since
18 customers provide this capital, and actually provide a return on the capital by
19 recovery of customer deposit expense in Tampa Electric's cost of service, these
20 funds should be fully reflected as a source of capital available to support Tampa
21 Electric's invested capital cost.

22

23 Q **WHAT IS YOUR PROPOSED CAPITAL STRUCTURE IN THIS PROCEEDING?**

24 A My proposed capital structure is shown below in Table 3.

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TABLE 3

Proposed Capital Structure

<u>Description</u>	<u>Percent of Total Capital</u>
Long-Term Debt	33.708%
Customer Deposits	2.989%
Common Equity	40.5135%
Short-Term Debt	0.545%
Deferred Income Tax	22.0642%
Investment Tax Credit	0.21%
Total Capital Structure	100.00%

Source: Exhibit MPG-1, page 1.

Q WILL YOUR PROPOSED CAPITAL STRUCTURE SUPPORT TAMPA ELECTRIC'S FINANCIAL INTEGRITY AND CREDIT RATING?

A Yes. As I will discuss later in my testimony, my proposed capital structure is consistent with Tampa Electric's current credit rating and will support Tampa Electric's financial integrity.

RETURN ON EQUITY

Q PLEASE DESCRIBE WHAT IS MEANT BY A "UTILITY'S COST OF COMMON EQUITY."

A A utility's cost of common equity is the return investors require on an investment in the utility. Investors expect to achieve their return requirement from receiving dividends and stock price appreciation.

1 **Q PLEASE DESCRIBE THE FRAMEWORK FOR DETERMINING A REGULATED**
2 **UTILITY'S COST OF COMMON EQUITY.**

3 A In general, determining a fair cost of common equity for a regulated utility has
4 been framed by two hallmark decisions of the U.S. Supreme Court: Bluefield
5 Water Works & Improvement Co. v. Pub. Serv. Comm'n of W. Va., 262 U.S. 679
6 (1923) and Fed. Power Comm'n v. Hope Natural Gas Co., 320 U.S. 591 (1944).

7 These decisions identify the general standards to be considered in
8 establishing the cost of common equity for a public utility. Those general
9 standards provide that the authorized return should: (1) be sufficient to maintain
10 financial integrity; (2) attract capital under reasonable terms; and (3) be
11 commensurate with returns investors could earn by investing in other enterprises
12 of comparable risk.

13

14 **Q PLEASE DESCRIBE THE METHODS YOU HAVE USED TO ESTIMATE**
15 **TAMPA ELECTRIC'S COST OF COMMON EQUITY.**

16 A I have used several models based on financial theory to estimate Tampa
17 Electric's cost of common equity. These models are: (1) a constant growth
18 Discounted Cash Flow ("DCF") model using consensus analysts' growth rate
19 projections; (2) a constant growth DCF using sustainable growth rate estimates;
20 (3) a multi-stage growth DCF model; (4) a Risk Premium model; and (5) a Capital
21 Asset Pricing Model ("CAPM"). I have applied these models to a group of
22 publicly traded utilities that I have determined share investment risk similar to
23 Tampa Electric's.

24

25

1 **Risk Proxy Group**

2 Q HOW DID YOU SELECT A UTILITY PROXY GROUP SIMILAR IN
3 INVESTMENT RISK TO TAMPA ELECTRIC TO ESTIMATE ITS CURRENT
4 MARKET COST OF EQUITY?

5 A I relied on the same utility proxy group used by Tampa Electric's witness Mr.
6 Hevert to estimate Tampa Electric's return on equity.

7
8 Q PLEASE DESCRIBE WHY YOU BELIEVE YOUR PROXY GROUP IS
9 REASONABLY COMPARABLE IN INVESTMENT RISK TO TAMPA
10 ELECTRIC.

11 A The proxy group is shown in Exhibit MPG-2. This proxy group has an average
12 corporate credit rating from S&P of "BBB," which is similar to S&P's corporate
13 credit rating for Tampa Electric of "BBB+." The proxy group's corporate credit
14 rating from Moody's of "Baa2" is also comparable to Tampa Electric's corporate
15 credit rating from Moody's of "A3." The comparable bond rating indicates that the
16 proxy group has reasonably comparable investment risk to Tampa Electric.

17 The proxy group has an average common equity ratio of 49.0% (including
18 short-term debt) from SNL Financial ("SNL") and 51.9% (excluding short-term
19 debt) from *The Value Line Investment Survey* ("*Value Line*") in 2012. The proxy
20 group's common equity ratio is significantly lower than the 54.2% common equity
21 ratio proposed by the Company.

22 I also compared Tampa Electric's business risk to the business risk of the
23 proxy group based on S&P's ranking methodology. Tampa Electric has an S&P
24 business risk profile of "Excellent," which is identical to the S&P business risk
25 profile of the proxy group. The S&P business risk profile score indicates that

1 Tampa Electric's business risk is comparable to that of the proxy group.¹⁰

2 Based on these proxy group selection criteria, I believe that my proxy
 3 group reasonably approximates the investment risk of Tampa Electric, and can
 4 be used to estimate a fair return on equity for Tampa Electric.

5

6 **Discounted Cash Flow Model**

7 **Q PLEASE DESCRIBE THE DCF MODEL.**

8 **A** The DCF model posits that a stock price is valued by summing the present value
 9 of expected future cash flows discounted at the investor's required rate of return
 10 or cost of capital. This model is expressed mathematically as follows:

11
$$P_0 = \frac{D_1}{(1+K)^1} + \frac{D_2}{(1+K)^2} + \dots + \frac{D_n}{(1+K)^n} \quad \text{where} \quad \text{(Equation 1)}$$

12
$$\frac{D_1}{(1+K)^1} \quad \frac{D_2}{(1+K)^2} \quad \frac{D_n}{(1+K)^n}$$

13 P_0 = Current stock price

14 D = Dividends in periods 1 - ∞

15 K = Investor's required return

16 This model can be rearranged in order to estimate the discount rate or
 17 investor-required return, "K." If it is reasonable to assume that earnings and
 18 dividends will grow at a constant rate, then Equation 1 can be rearranged as
 19 follows:

20

¹³S&P ranks the business risk of a utility company as part of its corporate credit rating review. S&P considers total investment risk in assigning bond ratings to issuers, including utility companies. In analyzing total investment risk, S&P considers both the business risk and the financial risk of a corporate entity, including a utility company. S&P's business risk profile score is based on a six-notch credit rating starting with "Vulnerable" (highest risk) to "Excellent" (lowest risk). The business risk of most utility companies falls within the lowest risk category, "Excellent," or the category one notch lower (more risk), "Strong." *Standard & Poor's RatingsDirect: "Criteria Methodology: Business Risk/Financial Risk Matrix Expanded,"* May 27, 2009.

1 Q WHAT DIVIDEND DID YOU USE IN YOUR CONSTANT GROWTH DCF
2 MODEL?

3 A I used the most recently paid quarterly dividend, as reported in *Value Line*.¹¹
4 This dividend was annualized (multiplied by 4) and adjusted for next year's
5 growth to produce the D_1 factor for use in Equation 2 above.

6

7 Q WHAT DIVIDEND GROWTH RATES HAVE YOU USED IN YOUR CONSTANT
8 GROWTH DCF MODEL?

9 A There are several methods that can be used to estimate the expected growth in
10 dividends. However, regardless of the method, for purposes of determining the
11 market-required return on common equity, one must attempt to estimate
12 investors' consensus about what the dividend or earnings growth rate will be, and
13 not what an individual investor or analyst may use to make individual investment
14 decisions.

15 As predictors of future returns, security analysts' growth estimates have
16 been shown to be more accurate than growth rates derived from historical data.¹²
17 That is, assuming the market generally makes rational investment decisions,
18 analysts' growth projections are more likely to influence observable stock prices
19 than growth rates derived only from historical data.

20 For my constant growth DCF analysis, I have relied on a consensus, or
21 mean, of professional security analysts' earnings growth estimates as a proxy for
22 investor consensus dividend growth rate expectations. I used the average of
23 analysts' growth rate estimates from three sources: Zacks, SNL, and Reuters.

¹¹*The Value Line Investment Survey*, May 3, May 24, and June 21, 2013.

¹²See, e.g., David Gordon, Myron Gordon, and Lawrence Gould, "Choice Among Methods of Estimating Share Yield," *The Journal of Portfolio Management*, Spring 1989.

1 All such projections were available on June 24, 2013, and all were reported
2 online.

3 Each consensus growth rate projection is based on a survey of security
4 analysts. There is no clear evidence whether a particular analyst is most
5 influential on general market investors. Therefore, a single analyst's projection
6 does not as reliably predict consensus investor outlooks as does a consensus of
7 market analysts' projections. The consensus estimate is a simple arithmetic
8 average, or mean, of surveyed analysts' earnings growth forecasts. A simple
9 average of the growth forecasts gives equal weight to all surveyed analysts'
10 projections. Therefore, a simple average, or arithmetic mean, of analyst
11 forecasts is a good proxy for market consensus expectations.

12

13 **Q WHAT ARE THE GROWTH RATES YOU USED IN YOUR CONSTANT**
14 **GROWTH DCF MODEL?**

15 A The growth rates I used in my DCF analysis are shown in Exhibit MPG-3. The
16 average growth rate for my proxy group is 5.22%.

17

18 **Q WHAT ARE THE RESULTS OF YOUR CONSTANT GROWTH DCF MODEL?**

19 A As shown in Exhibit MPG-4, the average and median constant growth DCF
20 returns for my proxy group are 9.16% and 9.40%, respectively.

21

22 **Q DO YOU HAVE ANY COMMENTS ON THE RESULTS OF YOUR CONSTANT**
23 **GROWTH DCF ANALYSIS?**

24 A Yes. The constant growth DCF analysis was based on a proxy group average
25 growth rate of 5.22%. This growth rate is higher than the projected long-term

1 GDP growth rate of 4.9% as reflected in *The Blue Chip Financial Forecasts*.
2 Because this short-term growth rate exceeds the long-term growth outlook for the
3 U.S. economy, I believe the growth rate of the constant growth DCF analysis is
4 not sustainable over the long term.

5 Therefore, I believe my constant growth DCF analysis, using consensus
6 analysts' growth projections produces overstated results. Therefore, I have
7 developed additional DCF studies to enhance the information available to
8 accurately estimate Tampa Electric's current market cost of common equity.

9

10 **Sustainable Growth DCF**

11 **Q. PLEASE DESCRIBE HOW YOU ESTIMATED A SUSTAINABLE LONG-TERM**
12 **GROWTH RATE FOR YOUR SUSTAINABLE GROWTH DCF MODEL.**

13 **A.** A sustainable growth rate is based on the percentage of the utility's earnings that
14 is retained and reinvested in utility plant and equipment. These reinvested
15 earnings increase the earnings base (rate base). Earnings grow when plant
16 funded by reinvested earnings is put into service, and the utility is allowed to earn
17 its authorized return on such additional rate base investment.

18 The internal growth methodology is tied to the percentage of earnings
19 retained in the company and not paid out as dividends. The earnings retention
20 ratio is 1 minus the dividend payout ratio. As the payout ratio declines, the
21 earnings retention ratio increases. An increased earnings retention ratio will fuel
22 stronger growth because the business funds more investments with retained
23 earnings. The payout ratios of the proxy group are shown in my Exhibit MPG-5.
24 These dividend payout ratios and earnings retention ratios then can be used to
25 develop a sustainable long-term earnings retention growth rate. A sustainable

1 long-term earnings retention ratio will help gauge whether analysts' current three-
2 to five-year growth rate projections can be sustained over an indefinite period of
3 time.

4 The data used to estimate the long-term sustainable growth rate is based
5 on the Company's current market to book ratio and on *Value Line's* three- to five-
6 year projections of earnings, dividends, earned returns on book equity, and stock
7 issuances.

8 As shown in Exhibit MPG-6, page 1, the average sustainable growth rate
9 for the proxy group using this internal growth rate model is 4.39%.

10

11 **Q WHAT IS THE DCF ESTIMATE USING THESE SUSTAINABLE LONG-TERM**
12 **GROWTH RATES?**

13 A A DCF estimate based on these sustainable growth rates is developed in Exhibit
14 MPG-7. As shown there, a sustainable growth DCF analysis produces proxy
15 group average and median DCF results of 8.30 and 8.14%, respectively.

16

17 **Multi-Stage Growth DCF Model**

18 **Q HAVE YOU CONDUCTED ANY OTHER DCF STUDIES?**

19 A Yes. My first constant growth DCF is based on consensus analysts' growth rate
20 projections, so it is a reasonable reflection of rational investment expectations
21 over the next three to five years. The limitation on the constant growth DCF
22 model is that it cannot reflect a rational expectation that a period of high/low
23 short-term growth can be followed by a change in growth to a rate that is more
24 reflective of long-term sustainable growth. Hence, I performed a multi-stage
25 growth DCF analysis to reflect this outlook of changing growth expectations.

1 **Q WHEN DO YOU BELIEVE SHORT-TERM GROWTH RATES CHANGE OVER**
2 **TIME?**

3 A Analyst projected growth rates over the next three to five years will change as
4 utility earnings growth outlooks change. Utility companies typically go through
5 cycles in making investments in their systems. When utility companies are
6 making large investments, their rate base grows rapidly, which accelerates their
7 earnings growth. Once a major construction cycle is completed or levels off,
8 growth in the utility rate base slows, and its earnings slow from an abnormally
9 high three- to five-year growth rate period to a lower sustainable growth rate.

10 As major construction cycles extend over longer periods of time, even
11 with an accelerated construction program, the growth rate of the utility will slow
12 simply because it is adding to a larger rate base, and the utility has limited
13 human and capital resources available to expand its construction program.
14 Hence, the three- to five-year growth rate projection should be used as a long-
15 term sustainable growth rate but not without making a reasonable informed
16 judgment to determine whether it considers the current market environment, the
17 industry, and whether the three- to five-year growth outlook is sustainable.

18

19 **Q IS THE USE OF A MULTI-STAGE DCF MODEL SUPPORTED IN ACADEMIC**
20 **AND INDUSTRY LITERATURE?**

21 A Yes. In his book *New Regulatory Finance*, Dr. Roger Morin states the following:

22 Dividends need not be, and probably are not, constant from period
23 to period. Moreover, there are circumstances where the standard
24 DCF model cannot be used to assess investor return
25 requirements. For example, if a utility company is in the process

1 of altering its dividend payout policy and dividends are not
2 expected to grow at the same rate as earnings during the
3 transition period, the standard DCF model is inapplicable. This is
4 because the expected growth in stock price has to be different
5 from that of dividends, earnings, and book value if the market
6 price is to converge toward book value.

7 * * *

8 A Non-Constant Growth DCF model is appropriate whenever the
9 growth rate is expected to change, and the only way to produce a
10 change in the forecast payout ratio is by introducing an
11 intermediate growth rate that is different from the long-term growth
12 rate, as in the previous example.¹³

13

14 **Q PLEASE DESCRIBE YOUR MULTI-STAGE GROWTH DCF MODEL.**

15 A The multi-stage growth DCF model reflects the possibility of non-constant growth
16 for a company over time. The multi-stage growth DCF model reflects three
17 growth periods: (1) a short-term growth period, which consists of the first five
18 years; (2) a transition period, which consists of the next five years (6 through 10);
19 and (3) a long-term growth period, starting in year 11 through perpetuity.

20 For the short-term growth period, I relied on the consensus analysts'
21 growth projections described above in relationship to my constant growth DCF
22 model. For the transition period, the growth rates were reduced or increased by
23 an equal factor, which reflects the difference between the analysts' growth rates
24 and the United States Gross Domestic Product ("U.S. GDP") growth rate. For

¹³*New Regulatory Finance*, Roger A. Morin, PhD, 2006 Public Utilities Reports, Inc.,
Vienna, Virginia, pp. 264 and 267.

1 the long-term growth period, I assumed each company's growth would converge
2 to the maximum sustainable growth rate for a utility company as proxied by the
3 consensus analysts' projected growth for the U.S. GDP of 4.9%.

4

5 **Q WHY IS THE GDP GROWTH PROJECTION A REASONABLE PROXY FOR**
6 **THE MAXIMUM SUSTAINABLE GROWTH RATE FOR A UTILITY?**

7 A Utilities cannot indefinitely sustain a growth rate that exceeds the growth rate of
8 the overall economy. Utilities' earnings/dividend growth is created by increased
9 utility investment or rate base. Such investment, in turn, is driven by service area
10 economic growth and demand for utility service. In other words, utilities invest in
11 plant to meet sales demand growth, and sales growth, in turn, is tied to economic
12 growth in their service areas. The Energy Information Administration ("EIA") has
13 observed that utility sales growth is less than U.S. GDP growth, as shown in
14 Exhibit MPG-8. Utility sales growth has lagged behind GDP growth for more
15 than a decade. As a result, nominal GDP growth is a very conservative, albeit
16 overstated, proxy for electric utility sales growth, rate base growth, and earnings
17 growth. Therefore, GDP growth is a conservative proxy for the highest
18 sustainable long-term growth rate of a utility.

19

20 **Q IS THERE RESEARCH THAT SUPPORTS YOUR POSITION THAT, OVER**
21 **THE LONG TERM, A COMPANY'S EARNINGS AND DIVIDENDS CANNOT**
22 **GROW AT A RATE GREATER THAN THE GROWTH OF THE U.S. GDP?**

23 A Yes. This concept is supported in both published analyst literature and academic
24 work. Specifically, in a textbook entitled "Fundamentals of Financial
25 Management," published by Eugene Brigham and Joel F. Houston, the authors

1 state as follows:

2 The constant growth model is most appropriate for mature
3 companies with a stable history of growth and stable future
4 expectations. Expected growth rates vary somewhat among
5 companies, but dividends for mature firms are often expected to
6 grow in the future at about the same rate as nominal gross
7 domestic product (real GDP plus inflation).¹⁴

8

9 **Q HOW DID YOU DETERMINE A SUSTAINABLE LONG-TERM GROWTH RATE**
10 **THAT REFLECTS THE CONSENSUS OF THE MARKET?**

11 A I relied on the consensus analysts' projections of long-term GDP growth. *The*
12 *Blue Chip Financial Forecasts* publishes consensus economists' GDP growth
13 projections twice a year. These consensus analysts' GDP growth outlooks are
14 the best available measure of the market's assessment of long-term GDP
15 growth. These analyst projections reflect all current outlooks for GDP, as
16 reflected in analyst projections, and are likely the most influential on investors'
17 expectations of future growth outlooks. The consensus economists' published
18 GDP growth rate outlook is 5.0% to 4.8% over the next 10 years.¹⁵

19 Therefore, I propose to use the consensus economists' projected 5- and
20 10-year average GDP consensus growth rates of 5.0% and 4.8%, respectively,
21 as published by *Blue Chip Financial Forecasts*, as an estimate of long-term
22 sustainable growth. *Blue Chip Financial Forecasts'* projections provide real GDP

¹⁴*Fundamentals of Financial Management*, Eugene F. Brigham and Joel F. Houston, Eleventh Edition 2007, Thomson South-Western, a Division of Thomson Corporation at 298.

¹⁵*Blue Chip Financial Forecasts*, June 1, 2013 at 14.

1 growth projections of 2.8% and 2.5%, and GDP inflation of 2.1% and 2.2%¹⁶ over
2 the 5-year and 10-year projection periods, respectively. This consensus GDP
3 growth forecast represents the most likely views of market participants because it
4 is based on published consensus economist projections.

5

6 **Q DO YOU CONSIDER OTHER SOURCES OF PROJECTED LONG-TERM GDP**
7 **GROWTH?**

8 **A** Yes, and these sources corroborate my consensus analysts' projections. The
9 U.S. EIA in its *Annual Energy Outlook* projects real GDP out until 2040. In its
10 *2013 Annual Report*, the EIA projects real GDP through 2040 to be in the range
11 of 2.0% to 2.9%, with a midpoint or reference case of 2.5%.¹⁷

12 Also, the Congressional Budget Office ("CBO") makes long-term
13 economic projections. The CBO is projecting real GDP growth of 2.6% to 2.2%
14 during the next 5 and 10 years, respectively, with GDP price inflation of 2.0%.¹⁸
15 The CBO's real GDP projections are higher than the consensus, but its GDP
16 inflation is lower than the consensus economists.

17 The real GDP and nominal GDP growth projections made by the U.S. EIA
18 and those made by the CBO support the use of the consensus analyst 5-year
19 and 10-year projected GDP growth outlooks as a reasonable market assessment
20 of long-term prospective GDP growth.

21

22

23

¹⁶GDP growth is the product of real and inflation GDP growth.

¹⁷DOE/EIA *Annual Energy Outlook 2013 With Projections to 2040*, April 2013 at 56.

¹⁸CBO: *The Budget and Economic Outlook: Fiscal Years 2013 to 2023*, February 2013
at 64.

1 **Q WHAT STOCK PRICE, DIVIDEND, AND GROWTH RATES DID YOU USE IN**
 2 **YOUR MULTI-STAGE GROWTH DCF ANALYSIS?**

3 A I relied on the same 13-week stock price and the most recent quarterly dividend
 4 payment data discussed above. For stage one growth, I used the consensus
 5 analysts' growth rate projections discussed above in my constant growth DCF
 6 model. The transition period begins in year 6 and ends in year 10. For the
 7 long-term sustainable growth rate starting in year 11, I used 4.9%, the average of
 8 the consensus economists' 5-year and 10-year projected nominal GDP growth
 9 rates.

10

11 **Q WHAT ARE THE RESULTS OF YOUR MULTI-STAGE GROWTH DCF**
 12 **MODEL?**

13 A As shown in Exhibit MPG-9, the average and median DCF returns on equity for
 14 my proxy group are both 8.89%.

15

16 **Q PLEASE SUMMARIZE THE RESULTS FROM YOUR DCF ANALYSES.**

17 A The results from my DCF analyses are summarized in Table 4 below:

18

19

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TABLE 4	
<u>Summary of DCF Results</u>	
<u>Description</u>	<u>Proxy Average/Median</u>
Constant Growth DCF Model (Analysts' Growth)	9.16%/9.40%
Constant Growth DCF Model (Sustainable Growth)	8.30%/8.14%
Multi-Stage Growth DCF Model	8.89%/8.89%

1 I conclude that a reasonable DCF return for Tampa Electric in this case is
2 conservatively 9.15%. I primarily relied on my constant growth DCF model and
3 multi-stage growth DCF model in this case because I believe these models
4 reflect the expectation of accelerated growth in the near term, followed by the
5 contraction of growth to a long-term sustainable level. My constant growth study
6 based on analysts' growth rate estimates suggests a return on equity in the
7 range of 9.16% to 9.40%. For my multi-stage growth model, a return of
8 approximately 8.89% or 8.90% rounded, is appropriate. The range for these two
9 models is 8.90% to 9.40%, with a midpoint of 9.15%. This return estimate largely
10 reflects my constant growth and multi-stage DCF analyses.

11

12 **Risk Premium Model**

13 **Q PLEASE DESCRIBE YOUR BOND YIELD PLUS RISK PREMIUM MODEL.**

14 **A** This model is based on the principle that investors require a higher return to
15 assume greater risk. Common equity investments have greater risk than bonds
16 because bonds have more security of payment in bankruptcy proceedings than
17 common equity and the coupon payments on bonds represent contractual
18 obligations. In contrast, companies are not required to pay dividends or
19 guarantee returns on common equity investments. Therefore, common equity
20 securities are considered to be more risky than bond securities.

21 This risk premium model is based on two estimates of an equity risk
22 premium. First, I estimated the difference between the required return on utility
23 common equity investments and U.S. Treasury bonds. The difference between
24 the required return on common equity and the Treasury bond yield is the risk
25 premium. I estimated the risk premium on an annual basis for each year over the

1 period 1986 through 2012. The common equity required returns were based on
2 regulatory commission-authorized returns for electric utility companies.
3 Authorized returns are typically based on expert witnesses' estimates of the
4 contemporary investor-required return.

5 The second equity risk premium estimate is based on the difference
6 between regulatory commission-authorized returns on common equity and
7 contemporary "A" rated utility bond yields. I selected the period 1986 through
8 2012 because public utility stocks consistently traded at a premium to book value
9 during that period. This is illustrated in Exhibit MPG-10, which shows that the
10 market to book ratio since 1986 for the electric utility industry was consistently
11 above 1.0. Over this period, regulatory authorized returns were sufficient to
12 support market prices that at least exceeded book value. This is an indication
13 that regulatory authorized returns on common equity supported a utility's ability to
14 issue additional common stock without diluting existing shares. It further
15 demonstrates that utilities were able to access equity markets without a
16 detrimental impact on current shareholders.

17 Based on this analysis, as shown in Exhibit MPG-11, the average
18 indicated equity risk premium over U.S. Treasury bond yields has been 5.30%.
19 Of the 27 observations, 21 indicated risk premiums fall in the range of 4.41% to
20 6.18%. Since the risk premium can vary depending upon market conditions and
21 changing investor risk perceptions, I believe using an estimated range of risk
22 premiums provides the best method to measure the current return on common
23 equity using this methodology.

24 As shown in Exhibit MPG-12, the average indicated equity risk premium
25 over contemporary Moody's utility bond yields was 3.89% over the period 1986

1 through 2012. The indicated equity risk premium estimates based on this
2 analysis primarily fall in the range of 3.03% to 4.88% over this time period.

3

4 **Q DO YOU BELIEVE THAT THESE EQUITY RISK PREMIUM ESTIMATES ARE**
5 **BASED ON A TIME PERIOD THAT IS TOO LONG OR TOO SHORT TO DRAW**
6 **ACCURATE CONCLUSIONS CONCERNING CONTEMPORARY MARKET**
7 **CONDITIONS?**

8 **A** No. Contemporary market conditions can change dramatically during the period
9 that rates determined in this proceeding will be in effect. A relatively long period
10 of time where stock valuations reflect premiums to book value is an indication
11 that the authorized returns on equity and the corresponding equity risk premiums
12 were supportive of investors' return expectations and provided utilities access to
13 the equity markets under reasonable terms and conditions. Further, this time
14 period is long enough to smooth abnormal market movement that might distort
15 equity risk premiums. While market conditions and risk premiums do vary over
16 time, this historical time period is a reasonable period to estimate contemporary
17 risk premiums.

18 The time period I use in this risk premium study is a generally accepted
19 period to develop a risk premium study using "expectational" data. Conversely,
20 studies have recommended that use of "actual achieved return data" should be
21 based on very long historical time periods. The studies find that achieved returns
22 over short time periods may not reflect investors' expected returns due to
23 unexpected and abnormal stock price performance. However, these short-term
24 abnormal actual returns would be smoothed over time and the achieved actual
25 returns over long time periods would approximate investors' expected returns.

1 Therefore, it is reasonable to assume that averages of annual achieved returns
2 over long time periods will generally converge on the investors' expected returns.

3 My risk premium study is based on expectational data, not actual returns,
4 and, thus, need not encompass very long time periods.

5

6 **Q BASED ON HISTORICAL DATA, WHAT RISK PREMIUM HAVE YOU USED**
7 **TO ESTIMATE TAMPA ELECTRIC'S COST OF COMMON EQUITY IN THIS**
8 **PROCEEDING?**

9 **A** The equity risk premium should reflect the relative market perception of risk in
10 the utility industry today. I have gauged investor perceptions in utility risk today
11 in Exhibit MPG-13. On that schedule, I show the yield spread between utility
12 bonds and Treasury bonds over the last 33 years. As shown in this schedule,
13 the 2011 utility bond yield spreads over Treasury bonds for "A" rated and "Baa"
14 rated utility bonds are 1.13% and 1.65%, respectively. The utility bond yield
15 spreads over Treasury bonds for "A" and "Baa" rated utility bonds for 2012 are
16 1.21% and 1.91%, respectively. The current average "A" and "Baa" rated utility
17 bond yield spreads over Treasury bond yields are now lower than the 33-year
18 average spreads of 1.56% and 1.98%, respectively.

19 A current 13-week average "A" rated utility bond yield of 4.19%, when
20 compared to the current Treasury bond yield of 3.12% as shown in Exhibit MPG-
21 14, page 1 implies a yield spread of around 1.00%. This current utility bond yield
22 spread is lower than the 33-year average spread for "A" utility bonds of 1.56%.
23 Similarly, the current spread for the "Baa" utility yields of 1.57% is lower than the
24 33-year average spread of 1.98%.

25

1 These utility bond yield spreads are clear evidence that the market
2 considers the utility industry to be a relatively low-risk investment and
3 demonstrates that utilities continue to have strong access to capital.

4
5 **Q HOW DID YOU ESTIMATE TAMPA ELECTRIC'S COST OF COMMON EQUITY**
6 **WITH THIS RISK PREMIUM MODEL?**

7 **A I added a projected long-term Treasury bond yield to my estimated equity risk**
8 **premium over Treasury yields. The 13-week average 30-year Treasury bond**
9 **yield, ending June 21, 2013 was 3.12%, as shown in Exhibit MPG-14, page 1.**
10 ***Blue Chip Financial Forecasts* projects the 30-year Treasury bond yield to be**
11 **3.70%, and a 10-year Treasury bond yield to be 2.50%.¹⁹ Using the projected**
12 **30-year bond yield of 3.70%, and a Treasury bond risk premium of 4.41% to**
13 **6.18%, as developed above, produces an estimated common equity return in the**
14 **range of 8.11% (3.70% + 4.41%) to 9.88% (3.70% + 6.18%). Based on the large**
15 **risk premium in the market yield spreads, I recommend giving 75% weight to my**
16 **high-end risk premium and 25% weight to my low risk premium estimate. This**
17 **produces an equity risk premium estimate of 9.44%.²⁰ I believe this is**
18 **appropriate given the unusually large yield spreads between Treasury bond and**
19 **utility bond yields.**

20 I next added my equity risk premium over utility bond yields to a current
21 13-week average yield on "Baa" rated utility bonds for the period ending June 21,
22 2013 of 4.69%. Adding the utility equity risk premium of 3.03% to 4.88%, as
23 developed above, to a "Baa" rated bond yield of 4.69%, produces a cost of equity
24 in the range of 7.72% (4.69% + 3.03%) to 9.57% (4.69% + 4.88%). Again,

¹⁹*Blue Chip Financial Forecasts*, June 1, 2013 at 2.

²⁰ $75\% \times 9.88\% + 25\% \times 8.11\% = 9.44\%$.

1 recognizing the unusually wide Treasury to utility bond yield spreads, I
2 recommend a risk premium return on equity of 9.11%.²¹

3 My risk premium analyses produce a return estimate in the range of
4 9.11% to 9.44%, with a midpoint of 9.28%, rounded to 9.30%.

5

6 **Capital Asset Pricing Model ("CAPM")**

7 **Q PLEASE DESCRIBE THE CAPM.**

8 **A** The CAPM method of analysis is based upon the theory that the market-required
9 rate of return for a security is equal to the risk-free rate, plus a risk premium
10 associated with the specific security. This relationship between risk and return
11 can be expressed mathematically as follows:

12
$$R_i = R_f + B_i \times (R_m - R_f) \text{ where:}$$

13 R_i = Required return for stock i

14 R_f = Risk-free rate

15 R_m = Expected return for the market portfolio

16 B_i = Beta - Measure of the risk for stock

17 The stock-specific risk term in the above equation is beta. Beta
18 represents the investment risk that cannot be diversified away when the security
19 is held in a diversified portfolio. When stocks are held in a diversified portfolio,
20 firm-specific risks can be eliminated by balancing the portfolio with securities that
21 react in the opposite direction to firm-specific risk factors (e.g., business cycle,
22 competition, product mix, and production limitations).

23 The risks that cannot be eliminated when held in a diversified portfolio are
24 non-diversifiable risks. Non-diversifiable risks are related to the market in

²¹75% x 9.57% + 25% x 7.72% = 9.11%.

1 general and are referred to as systematic risks. Risks that can be eliminated by
2 diversification are regarded as non-systematic risks. In a broad sense,
3 systematic risks are market risks, and non-systematic risks are business risks.
4 The CAPM theory suggests that the market will not compensate investors for
5 assuming risks that can be diversified away. Therefore, the only risk that
6 investors will be compensated for are systematic or non-diversifiable risks. The
7 beta is a measure of the systematic or non-diversifiable risks.

8

9 **Q PLEASE DESCRIBE THE INPUTS TO YOUR CAPM.**

10 A The CAPM requires an estimate of the market risk-free rate, the company's beta,
11 and the market risk premium.

12

13 **Q WHAT DID YOU USE AS AN ESTIMATE OF THE MARKET RISK-FREE**
14 **RATE?**

15 A As previously noted, *Blue Chip Financial Forecasts'* projected 30-year Treasury
16 bond yield is 3.70%.²² The current 30-year Treasury bond yield is 3.12%, as
17 shown in Exhibit MPG-14, page 1. I used *Blue Chip Financial Forecasts'*
18 projected 30-year Treasury bond yield of 3.70% for my CAPM analysis.

19

20 **Q WHY DID YOU USE LONG-TERM TREASURY BOND YIELDS AS AN**
21 **ESTIMATE OF THE RISK-FREE RATE?**

22 A Treasury securities are backed by the full faith and credit of the United States
23 government, so long-term Treasury bonds are considered to have negligible
24 credit risk. Also, long-term Treasury bonds have an investment horizon similar to

²²*Blue Chip Financial Forecasts*, June 1, 2013 at 2.

1 that of common stock. As a result, investor-anticipated long-run inflation
2 expectations are reflected in both common-stock required returns and long-term
3 bond yields. Therefore, the nominal risk-free rate (or expected inflation rate and
4 real risk-free rate) included in a long-term bond yield is a reasonable estimate of
5 the nominal risk-free rate included in common stock returns.

6 Treasury bond yields, however, do include risk premiums related to
7 unanticipated future inflation and interest rates. A Treasury bond yield is not a
8 risk-free rate. Risk premiums related to unanticipated inflation and interest rates
9 are systematic or market risks. Consequently, for companies with betas less
10 than 1.0, using the Treasury bond yield as a proxy for the risk-free rate in the
11 CAPM analysis can produce an overstated estimate of the CAPM return.

12

13 **Q WHAT BETA DID YOU USE IN YOUR ANALYSIS?**

14 A As shown in Exhibit MPG-15, the proxy group average *Value Line* beta estimate
15 is 0.73.

16

17 **Q HOW DID YOU DERIVE YOUR MARKET RISK PREMIUM ESTIMATE?**

18 A I derived two market risk premium estimates, a forward-looking estimate and one
19 based on a long-term historical average.

20 The forward-looking estimate was derived by estimating the expected
21 return on the market (as represented by the S&P 500) and subtracting the risk-
22 free rate from this estimate. I estimated the expected return on the S&P 500 by
23 adding an expected inflation rate to the long-term historical arithmetic average
24 real return on the market. The real return on the market represents the achieved
25 return above the rate of inflation.

1 Morningstar's *Stocks, Bonds, Bills and Inflation 2013 Classic Yearbook*
2 estimates the historical arithmetic average real market return over the period
3 1926 to 2012 as 8.7%.²³ A current consensus analysts' inflation projection, as
4 measured by the Consumer Price Index, is 2.3%.²⁴ Using these estimates, the
5 expected market return is 11.20%.²⁵ The market risk premium then is the
6 difference between the 11.20% expected market return, and my 3.70% risk-free
7 rate estimate, or approximately 7.50%.

8 The historical estimate of the market risk premium was also estimated by
9 Morningstar in *Stocks, Bonds, Bills and Inflation 2013 Classic Yearbook*. Over
10 the period 1926 through 2012, Morningstar's study estimated that the arithmetic
11 average of the achieved total return on the S&P 500 was 11.8%,²⁶ and the total
12 return on long-term Treasury bonds was 6.1%.²⁷ The indicated market risk
13 premium is 5.7% (11.8% - 6.1% = 5.7%). The average of my market risk
14 premium estimates is 6.6% (7.5% to 5.7%).

15

16 **Q HOW DOES YOUR ESTIMATED MARKET RISK PREMIUM RANGE**
17 **COMPARE TO THAT ESTIMATED BY MORNINGSTAR?**

18 **A** Morningstar's analysis indicates that a market risk premium falls somewhere in
19 the range of 6.0% to 6.7%. My market risk premium falls in the range of 5.7% to
20 7.5%. My average market risk premium of 6.6% is at the high end of
21 Morningstar's range.

22

²³ *Morningstar, Inc., Ibbotson SBBI 2013 Classic Yearbook; Market Results for Stocks, Bonds, Bills, and Inflation 1926-2012* at 88.

²⁴ *Blue Chip Financial Forecasts*, June 1, 2013 at 2.

²⁵ $\{ [(1 + 0.087) * (1 + 0.023)] - 1 \} * 100$.

²⁶ *Morningstar, Inc. Ibbotson SBBI 2013 Classic Yearbook* at 87.

²⁷ *Id.*

1 Morningstar estimates a forward-looking market risk premium based on
2 actual achieved data from the historical period of 1926 through 2012. Using this
3 data, Morningstar estimates a market risk premium derived from the total return
4 on large company stocks (S&P 500), less the income return on Treasury bonds.
5 The total return includes capital appreciation, dividend or coupon reinvestment
6 returns, and annual yields received from coupons and/or dividend payments.
7 The income return, in contrast, only reflects the income return received from
8 dividend payments or coupon yields. Morningstar argues that the income return
9 is the only true risk-free rate associated with Treasury bonds and is the best
10 approximation of a truly risk-free rate.²⁸ I disagree with this assessment from
11 Morningstar, because it does not reflect a true investment option available to the
12 marketplace and therefore does not produce a legitimate estimate of the
13 expected premium of investing in the stock market versus that of Treasury
14 bonds. Nevertheless, I will use Morningstar's conclusion to show the
15 reasonableness of my market risk premium estimates.

16 Morningstar's range is based on several methodologies. First,
17 Morningstar estimates a market risk premium of 6.7% based on the difference
18 between the total market return on common stocks (S&P 500) less the income
19 return on Treasury bond investments. Second, Morningstar found that if the New
20 York Stock Exchange (the "NYSE") was used as the market index rather than the
21 S&P 500, that the market risk premium would be 6.5%, not 6.7%. Third, if only
22 the two deciles of the largest companies included in the NYSE were considered,

²⁸ Morningstar, Inc., *Ibbotson S&P 500 Valuation Yearbook: Market Results for Stocks, Bonds, Bills, and Inflation 1926-2012* at 55.

1 the market risk premium would be 6.0%.²⁹

2 Finally, Morningstar found that the 6.7% market risk premium based on
3 the S&P 500 was influenced by an abnormal expansion of price-to-earnings
4 ("P/E") ratios relative to earnings and dividend growth during the period 1980
5 through 2001. Morningstar believes this abnormal P/E expansion is not
6 sustainable.³⁰ Therefore, Morningstar adjusted this market risk premium
7 estimate to normalize the growth in the P/E ratio to be more in line with the
8 growth in dividends and earnings. Based on this alternative methodology,
9 Morningstar published a long-horizon supply-side market risk premium of 6.0%.³¹

10

11 **Q WHAT ARE THE RESULTS OF YOUR CAPM ANALYSIS?**

12 A As shown in Exhibit MPG-16, based on Morningstar's market risk premium of
13 6.7%, a risk-free rate of 3.70%, and a beta of 0.73, my CAPM analysis produces
14 a return of 8.60%.

15

16 **Return on Equity Summary**

17 **Q BASED ON THE RESULTS OF YOUR RETURN ON COMMON EQUITY**
18 **ANALYSES DESCRIBED ABOVE, WHAT RETURN ON COMMON EQUITY DO**
19 **YOU RECOMMEND FOR TAMPA ELECTRIC?**

20 A Based on my analyses, I estimate Tampa Electric's current market cost of equity
21 to be 9.25%.

22

²⁹Morningstar observes that the S&P 500 and the NYSE Decile 1-2 are both large capitalization benchmarks. *Id.* at 54.

³⁰*Morningstar, Inc., Ibbotson S&P 2013 Valuation Yearbook: Market Results for Stocks, Bonds, Bills, and Inflation 1926-2012* at 54.

³¹*Id.*

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TABLE 5	
<u>Return on Common Equity Summary</u>	
<u>Description</u>	<u>Results</u>
DCF	9.15%
Risk Premium	9.30%
CAPM	8.60%

My recommended return on common equity is 9.25%. My recommended return on equity is in the range of 9.15% to 9.30% and is supported by the results of my DCF studies and my risk premium studies. My recommended return of 9.25% is based on the approximate midpoint of my DCF return estimate, 9.15%, and risk premium result, 9.30%.

I am placing minimal weight on the results of my CAPM study because of my concerns about the risk-free rate and market risk premium outlined in this study.

Financial Integrity

Q WILL YOUR RECOMMENDED OVERALL RATE OF RETURN SUPPORT AN INVESTMENT GRADE BOND RATING FOR TAMPA ELECTRIC?

A Yes. I have reached this conclusion by comparing the key credit rating financial ratios for Tampa Electric, at my proposed return on equity and capital structure, to S&P's benchmark financial ratios using S&P's new credit metric ranges.

1 **Q PLEASE DESCRIBE THE MOST RECENT S&P FINANCIAL RATIO CREDIT**
2 **METRIC METHODOLOGY.**

3 A S&P publishes a matrix of financial ratios that correspond to its assessment of
4 the business risk of the utility company and related bond rating. On May 27,
5 2009, S&P expanded its matrix criteria³² by including additional business and
6 financial risk categories. Based on S&P's most recent credit matrix, the business
7 risk profile categories are "Excellent," "Strong," "Satisfactory," "Fair," "Weak," and
8 "Vulnerable." Most electric utilities have a business risk profile of "Excellent" or
9 "Strong." The financial risk profile categories are "Minimal," "Modest,"
10 "Intermediate," "Significant," "Aggressive," and "Highly Leveraged." Most of the
11 electric utilities have a financial risk profile of "Aggressive." Tampa Electric has
12 an "Excellent" business risk profile and a "Significant" financial risk profile.

13
14 **Q PLEASE DESCRIBE S&P'S USE OF THE FINANCIAL BENCHMARK RATIOS**
15 **IN ITS CREDIT RATING REVIEW.**

16 A S&P evaluates a utility's credit rating based on an assessment of its financial and
17 business risks. A combination of financial and business risks equates to the
18 overall assessment of Tampa Electric's total credit risk exposure. S&P publishes
19 a matrix of financial ratios that defines the level of financial risk as a function of
20 the level of business risk.

21 S&P publishes ranges for three primary financial ratios that it uses as
22 guidance in its credit review for utility companies. The three primary financial
23 ratio benchmarks it relies on in its credit rating process include: (1) Total Debt to

³²S&P updated its 2008 credit metric guidelines in 2009, and incorporated utility metric benchmarks with the general corporate rating metrics. *Standard & Poor's RatingsDirect*: "Criteria Methodology: Business Risk/Financial Risk Matrix Expanded," May 27, 2009.

1 Total Capital; (2) Debt to Earnings Before Interest, Taxes, Depreciation and
2 Amortization ("EBITDA"); and (3) Funds From Operations ("FFO") to Total Debt.³³

3

4 **Q HOW DID YOU APPLY S&P'S FINANCIAL RATIOS TO TEST THE**
5 **REASONABLENESS OF YOUR RATE OF RETURN RECOMMENDATIONS?**

6 A I calculated each of S&P's financial ratios based on Tampa Electric's cost of
7 service for its Florida jurisdictional electric operations. While S&P would normally
8 look at total consolidated Tampa Electric financial ratios in its credit review
9 process, my investigation in this proceeding is not the same as S&P's. I am
10 attempting to judge the reasonableness of my proposed cost of capital for rate-
11 setting in Tampa Electric's Florida regulated utility operations. Hence, I am
12 attempting to determine whether my proposed rate of return will in turn support
13 cash flow metrics, balance sheet strength, and earnings that will support an
14 investment grade bond rating and Tampa Electric's financial integrity.

15

16 **Q DID YOU INCLUDE ANY OFF-BALANCE SHEET DEBT ("OBSD")?**

17 A Yes. As shown in Exhibit MPG-17, page 3, I estimated OBSD equivalents of
18 \$56.10 million attributed to Tampa Electric's operating leases and purchased
19 power agreements ("PPA") as provided by the Company in response to FEA's
20 First Set of IRRs, IRR No. 3. S&P includes other off-balance sheet debt
21 adjustments which I did not include in my analysis. S&P's inclusion of
22 intermediate hybrids, post-retirement benefits, and accrued interest not reported
23 on the Company's debt and asset retirement obligations, were not included in my
24 analysis. Each of these factors are either reflected in Tampa Electric's cost of

³³*Standard & Poor's RatingsDirect*: "Criteria Methodology: Business Risk/Financial Risk Matrix Expanded," May 27, 2009.

1 service, or I could not find evidence that they relate to regulated utility operations.
2 As such, I did not include them in the metrics to judge the reasonableness of my
3 rate of return for retail operations in Florida in this proceeding.
4

5 **Q PLEASE DESCRIBE THE RESULTS OF THIS CREDIT METRIC ANALYSIS**
6 **FOR TAMPA ELECTRIC.**

7 **A** The S&P financial metric calculations for Tampa Electric at a 9.25% return are
8 developed on Exhibit MPG-17, page 1.

9 Tampa Electric's adjusted total debt ratio is approximately 47%. This is
10 within the "Significant" utility guideline range of 45% to 50%. This total debt ratio
11 will support an investment grade bond rating.

12 As shown in Exhibit MPG-17, page 1, column 1, based on an equity
13 return of 9.25%, Tampa Electric will be provided an opportunity to produce a debt
14 to EBITDA ratio of 2.9x. This is at the high end of S&P's "Intermediate" guideline
15 range of 2.0x to 3.0x.³⁴ This ratio also supports an investment grade credit
16 rating.

17 Finally, Tampa Electric's retail operations FFO to total debt coverage at a
18 9.25% equity return would be 24%, which is within the "Significant" metric
19 guideline range of 20% to 30%. The FFO/total debt ratio will support an
20 investment grade bond rating.

21 At my recommended return on equity of 9.25% and proposed capital
22 structure, Tampa Electric's financial credit metrics are supportive of its current
23 "BBB+" utility bond rating.
24

³⁴*Standard & Poor's RatingsDirect*. "Criteria Methodology: Business Risk/Financial Risk Matrix Expanded," May 27, 2009 at 4.

1 **RESPONSE TO TAMPA ELECTRIC WITNESS MR. ROBERT HEVERT**

2 **Q WHAT RETURN ON COMMON EQUITY IS TAMPA ELECTRIC PROPOSING**
3 **FOR THIS PROCEEDING?**

4 **A Mr. Hevert is sponsoring Tampa Electric's return on equity recommendation. He**
5 **is proposing a return on equity of 11.25%³⁵ based on a recommended range of**
6 **10.50% to 11.50%. Mr. Hevert relied on a constant growth DCF analysis, CAPM**
7 **studies, and a Bond Yield Plus Risk Premium approach to support his**
8 **recommended return for Tampa Electric.**

9 **Q ARE MR. HEVERT'S RETURN ON EQUITY ESTIMATES REASONABLE?**

10 **A No. Mr. Hevert's estimated costs ranging from 10.50% to 11.50% are overstated**
11 **and should be rejected. Mr. Hevert's analyses produce excessive results for**
12 **various reasons: (1) his constant growth DCF results are based on excessive,**
13 **unsustainable growth rates, (2) his CAPM is based on inflated market risk**
14 **premiums, and (3) his Bond Yield Plus Risk Premium is based on inflated utility**
15 **equity risk premiums.**

16 **Q PLEASE SUMMARIZE TAMPA ELECTRIC WITNESS MR. HEVERT'S**
17 **RETURN ON EQUITY ESTIMATES.**

18 **A Mr. Hevert's return on equity estimates are summarized below in Table 6. In**
19 **Column 2, I show the results with prudent and sound adjustments to Mr. Hevert's**
20 **common equity return estimates. With reasonable adjustments to his proxy**
21 **group's DCF, CAPM and Risk Premium return estimates, Mr. Hevert's own**

³⁵Hevert Direct at 3.

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1 studies show my recommended return on equity of 9.25% is reasonable for
2 Tampa Electric.

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TABLE 6		
<u>Hevert's Return on Equity Estimates</u>		
Description	Mean¹	Adjusted²
	(1)	(2)
<u>Constant Growth DCF (Mean/Median)</u>		
30-Day Average Stock Price	10.60%/10.84%	9.57%/9.54%
90-Day Average Stock Price	10.69%/10.86%	9.64%/9.51%
180-Day Average Stock Price	10.70%/10.81%	9.62%/9.38%
<u>CAPM Results (Bloomberg Beta)</u>		
Current Treasury Yield (Sharpe Ratio – 3.12%)	7.42%	7.90%
Current Treasury Yield (Bloomberg DCF – 3.12%)	10.18%	7.90%
Current Treasury Yield (Capital IQ DCF – 3.12%)	10.13%	7.90%
Near-Term Projected (Sharpe Ratio – 3.25%)	7.56%	8.00%
Near-Term Projected (Bloomberg DCF – 3.25%)	10.31%	8.00%
Near-Term Projected (Capital IQ DCF – 3.25%)	10.26%	8.00%
Long-Term Projected (Sharpe Ratio – 5.10%)	9.41%	9.90%
Long-Term Projected (Bloomberg DCF – 5.10%)	12.16%	9.90%
Long-Term Projected (Capital IQ DCF – 5.10%)	<u>12.11%</u>	<u>9.90%</u>
Average	9.95%	8.60%
<u>CAPM Results (Value Line Beta)</u>		
Current Treasury Yield (Sharpe Ratio – 3.12%)	7.45%	7.90%
Current Treasury Yield (Bloomberg DCF – 3.12%)	10.22%	7.90%
Current Treasury Yield (Capital IQ DCF – 3.12%)	10.16%	7.90%
Near-Term Projected (Sharpe Ratio – 3.25%)	7.58%	8.00%
Near-Term Projected (Bloomberg DCF – 3.25%)	10.35%	8.00%
Near-Term Projected (Capital IQ DCF – 3.25%)	10.30%	8.00%
Long-Term Projected (Sharpe Ratio – 5.10%)	9.43%	9.90%
Long-Term Projected (Bloomberg DCF – 5.10%)	12.20%	9.90%
Long-Term Projected (Capital IQ DCF – 5.10%)	<u>12.15%</u>	<u>9.90%</u>
Average	9.98%	8.60%
<u>Risk Premium</u>		
Current	10.23%	7.51%
Near-Term Projected	10.24%	7.64%
Long-Term Projected	<u>10.76%</u>	<u>9.50%</u>
Average	10.41%	8.22%
Range	10.50%-11.50%	8.60%-9.70%
Recommended/Midpoint Return on Equity	11.25%	9.30%
Sources:		
¹ Exhibit No. ____ (RBH-1), Document No. 1.		
² Exhibit MPG-18.		

1 **Q PLEASE DESCRIBE MR. HEVERT'S CONSTANT GROWTH DCF RETURN**
2 **ESTIMATES.**

3 A His constant growth DCF returns are developed in his Exhibit No. ____ (RBH-1),
4 Document No. 2, pages 1-3. Mr. Hevert's constant growth DCF models are
5 based on consensus growth rates published by Zacks and First Call, and
6 individual growth rate projections made by *Value Line*. He relied on dividend
7 yield calculations based on average stock prices over three different periods –
8 30-day, 90-day and 180-day.

9 **Q DO YOU BELIEVE THAT MR. HEVERT'S CONSTANT GROWTH DCF**
10 **RETURN MODELS PRODUCE A REASONABLE RETURN ESTIMATE FOR**
11 **TAMPA ELECTRIC?**

12 A No. Mr. Hevert relied on growth rate estimates which are far too high to be
13 reasonable estimates of long-term sustainable growth. Also, Mr. Hevert's results
14 are subject to certain outliers. For example, Otter Tail Corporation and PNM
15 Resources have *Value Line* growth rates of 24.0% and 16.0%, respectively,
16 which is significantly above the sustainable long-term growth rate of 4.9% as
17 discussed above. Eliminating these clearly outlier growth rate estimates would
18 reduce Mr. Hevert's average DCF studies to 9.57% to 9.64% as shown on my
19 Exhibit MPG-18. However, Mr. Hevert's DCF results are still overstated because
20 of his development of his DCF input estimates.

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1 **Q PLEASE DESCRIBE THE GROWTH RATES INCLUDED IN MR. HEVERT'S**
2 **CONSTANT GROWTH DCF RETURN ESTIMATES.**

3 A The growth rate estimates, dividend yields and corresponding DCF return
4 estimates for Mr. Hevert's constant growth DCF studies are illustrated on my
5 Exhibit MPG-19. Mr. Hevert's schedules do not show the details of the DCF
6 estimate.

7 As shown on that schedule, his DCF return estimates for his proxy group
8 are based on a range of growth rate estimates from a low of 4.73%, to a mean
9 growth rate estimate of 6.50%, and a high DCF growth rate of 8.94%. These
10 growth rate estimates were used in all of his constant growth DCF study 30-, 90-
11 and 180-day average stock prices.

12 **Q WHY DO YOU BELIEVE THAT MR. HEVERT'S MEAN AND HIGH-END**
13 **GROWTH RATE ESTIMATES OF 6.50% AND 8.94%, RESPECTIVELY, ARE**
14 **TOO HIGH TO BE REASONABLE ESTIMATES OF LONG-TERM**
15 **SUSTAINABLE GROWTH?**

16 A These growth rates cannot be sustained indefinitely for various reasons. First,
17 the consensus of economists is that GDP growth of the U.S. general economy,
18 which is a proxy for the growth rate of the economies in which these utilities
19 operate, is between 4.7% and 5.1% indefinitely.³⁶ Hence, the growth rates of
20 6.50% and 8.94% are substantially higher than the growth outlooks of the
21 economies in which these utilities operate. It is simply not rational to expect that
22 these companies can grow faster than the economies in which they provide

³⁶*Blue Chip Financial Forecasts*, June 1, 2013, page 14.

1 service, because utilities provide service to meet the demand of the economies
2 they serve.

3 Second, growth rates in the range of 6.50% and 8.94% could not be
4 sustained by the current earnings retention rate of utility companies. Indeed, the
5 *Value Line* long-term payout ratio for the utility industry will be about 60.12%
6 (Exhibit MPG-5). In order to sustain growth rates of 6.50% and 8.94%, utilities
7 would have to achieve returns on book equity of 16.30% and 22.42%,
8 respectively, indefinitely.³⁷ Hence, it is simply not a rational outlook to expect
9 that utilities will be able to produce earnings that could sustain this level of growth
10 indefinitely.

11 **Q CAN YOU DESCRIBE AGAIN WHY A THREE- TO FIVE-YEAR GROWTH**
12 **RATE CAN EXCEED A LONG-TERM SUSTAINABLE GROWTH RATE?**

13 **A** Yes. A three- to five-year growth rate can exceed a long-term sustainable growth
14 rate for several reasons including: (1) the utility's capital program and rate base
15 are growing at an abnormally high level; (2) a company's growth in earnings is
16 above a depressed level of earnings; and/or (3) altering dividend payout ratio
17 targets can create temporary acceleration or decline to short-term growth.

18 As discussed above, while short-term accelerated earnings growth rates
19 may be a reasonable expectation for relatively short periods of time, it is not
20 reasonable to expect that accelerated short-term growth can be sustained
21 indefinitely. That is the flaw of Mr. Hevert's DCF studies. He is deriving DCF
22 estimates based on accelerated short-term growth rates that he assumes can be
23 sustained over an indefinite period of time. This is simply not a rational outlook,

³⁷ $6.50\% \div (1 - 60.12\%) = 16.30\%$ and $8.94\% \div (1 - 60.12\%) = 22.42\%$.

1 and produces an excessive DCF return estimate.

2 **Q CAN MR. HEVERT'S DCF ANALYSES BE REVISED TO REFLECT A**
3 **REASONABLE LONG-TERM SUSTAINABLE GROWTH RATE?**

4 **A** Yes. Mr. Hevert's DCF studies can be revised to reflect the short-term growth
5 rate estimates that will be realized over the period they were designed to reflect,
6 five years, and the growth rate after that would eventually converge down to a
7 lower sustainable long-term rate of growth. This can be accomplished by using a
8 multi-stage growth DCF analysis. The multi-stage growth DCF model can reflect
9 abnormally high short-term growth, followed by a decline to a lower growth rate
10 that can be sustained over a long-term period.

11 **Q HOW WOULD MR. HEVERT'S CONSTANT GROWTH DCF MODEL CHANGE**
12 **IF A MULTI-STAGE DCF MODEL IS PERFORMED?**

13 **A** As shown on my Exhibit MPG-19, using *The Blue Chip Financial Forecasts'* GDP
14 growth forecast of 4.9% (average of 5.1% and 4.7%) and Mr. Hevert's inputs as
15 developed on his Exhibit No. ___ (RBH-1), will reduce his DCF return estimate
16 for his proxy group from 10.69% (mean) and 10.84% (median) to 9.61% (mean)
17 and 9.55% (median). The results are summarized in Table 7 below.

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TABLE 7		
<u>Hevert Multi-Stage DCF Analysis</u>		
<u>Description</u>	<u>Hevert Mean¹</u> (1)	<u>Revised Estimate²</u> (2)
<u>Mean</u>		
30-Day Average Stock Price	10.60%	9.54%
90-Day Average Stock Price	10.69%	9.64%
180-Day Average Stock Price	<u>10.79%</u>	<u>9.66%</u>
Average	10.69%	9.61%
<u>Median</u>		
30-Day Average Stock Price	10.84%	9.61%
90-Day Average Stock Price	10.86%	9.59%
180-Day Average Stock Price	<u>10.81%</u>	<u>9.45%</u>
Average	10.84%	9.55%
Sources:		
¹ Exhibit No. ____ (RBH-1), Document No. 2.		
² Exhibit MPG-20.		

Q PLEASE DESCRIBE THE ISSUES YOU TAKE WITH MR. HEVERT'S CAPM ANALYSES.

A My major concern with Mr. Hevert's CAPM analysis is his inflated market risk premium estimates.

Q PLEASE DESCRIBE MR. HEVERT'S MARKET RISK PREMIUMS.

A Mr. Hevert developed three market risk premium estimates. The first two are DCF-derived market risk premiums of 9.88% (Bloomberg) and 9.81% (Capital IQ), which are based on market DCF returns of 13.00% and 12.93%, respectively, less the current 30-year Treasury bond yield of 3.12%. (Exhibit No.

1 ___ (RBH-2), Document No. 5, pages 2 and 15). The second market risk
2 premium (referred as the Sharpe market risk premium) of 6.03% is based on one
3 historical market risk premium estimate of 6.60%, adjusted for the difference in
4 long-term historical and current market volatility. (*Id.*, page 1).

5

6 **Q WHAT ISSUES DO YOU HAVE WITH MR. HEVERT'S DCF-DERIVED**
7 **MARKET RISK PREMIUM ESTIMATES?**

8 **A**Mr. Hevert's DCF-derived market risk premiums are based on market returns of
9 approximately 13.00% and 12.93%, which consist of a growth rate component of
10 approximately 11.00% and a dividend yield of approximately 2.00%. As
11 discussed above, the DCF model requires a long-term sustainable growth rate.
12 Mr. Hevert's sustainable market growth rate of approximately 11.00% is far too
13 high to be a rational outlook for sustainable long-term market growth. This
14 growth rate is more than two times the growth rate of the U.S. GDP long-term
15 growth outlook of 4.9%. Indeed, it is even about twice Mr. Hevert's flawed and
16 overstated GDP growth projection.

17 As a result of this unreasonable long-term market growth rate estimate,
18 Mr. Hevert's market DCF returns are inflated and not reliable. Consequently,
19 Mr. Hevert's 9.88% (Bloomberg) and 9.81% (Capital IQ) market risk premiums
20 are inflated and not reliable.

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1 Q IS THERE INFORMATION ON ACTUAL ACHIEVED CAPITAL
2 APPRECIATION FOR THE MARKET INDEX USED BY MR. HEVERT?

3 A Yes. Morningstar estimates the actual capital appreciation for the S&P 500 over
4 the period 1926 through 2012 to have been 7.5%.³⁸ Using this gauge of actual
5 capital appreciation in the market in the past as an estimate of future expected
6 growth of the market index going forward, along with Mr. Hevert's estimated
7 dividend yield of approximately 2.0%, would imply a total expected return on the
8 market going forward of approximately 9.5%. This 9.5% less the risk-free
9 estimates used by Mr. Hevert of 3.1% would imply a going-forward expected
10 market risk premium of 6.4%.

11 This expected return on the market is very consistent with Morningstar's
12 data which estimates market risk premiums in the range of 6.0% to 6.7% based
13 on its historical market and Treasury bond investment data that I discussed
14 above.

15

16 Q PLEASE DESCRIBE MR. HEVERT'S SHARPE MARKET RISK PREMIUM.

17 A Mr. Hevert's Sharpe market risk premium is 6.03%. Mr. Hevert maintains that his
18 Sharpe market risk premium adjusts the historical market risk premium to reflect
19 the difference between historic and expected market volatility. He adjusts the
20 historical market risk premium of 6.6% by the expected market volatility of
21 18.54%, relative to historical market volatility of 20.30%.³⁹ He measures
22 expected market volatility using the Chicago Board Options Exchange's
23 ("CBOE") three-month volatility index of settlement prices of futures on the
24 CBOE's one-month volatility index (July 2013 through Sept 2013).

³⁸2013 Ibbotson *S&P Valuation Yearbook* at 23.

³⁹Exhibit No. ____ (RBH-1), Document No. 3, page 1 of 27.

1 As shown on his Exhibit No. ____ (RBH-1), Document No. 3, page 1, using
2 this relative comparison of market volatility, he adjusts the historical market risk
3 premium of 6.60% down to 8.35%, by the ratio of expected market volatility of
4 18.54%, to historical market volatility of 20.30% ($6.60\% \times (18.54\% \div 20.30\%)$).

5

6 **Q DO YOU BELIEVE THAT MR. HEVERT'S SHARPE RATIO EXPECTED**
7 **MARKET RISK PREMIUM PRODUCES RELIABLE RESULTS?**

8 A No. The period rates determined in this proceeding will be in effect is several
9 years into the future. In significant contrast, Mr. Hevert is measuring expected
10 market volatility for a relatively short six-week time period in 2012. This relatively
11 short period of time does not prove that market volatility in the long term will be
12 different from volatility in the past. Mr. Hevert's short-term based analysis is not
13 useful in estimating a fair return for Tampa Electric in this case. It simply is not
14 designed to estimate long-term investors' cost of capital requirements.

15

16 **Q WHY IS MR. HEVERT'S PROPOSAL TO MEASURE MARKET RISK**
17 **PREMIUM BASED ON A SIX-WEEK MARKET VOLATILITY NOT USEFUL IN**
18 **ESTIMATING A FAIR RETURN ON EQUITY FOR TAMPA ELECTRIC IN THIS**
19 **PROCEEDING?**

20 A Mr. Hevert's Sharpe ratio market risk premium does not capture the return
21 expectations of long-term utility investors. Rather, it reflects the short-term
22 investment outlooks of short-term trading investors or speculators looking to
23 react to misvaluations in the marketplace. Indeed, the entire analysis is based
24 on derivative future valuation data rather than directly on stock price data. As
25 such, the Sharpe market risk premium does not measure long-term stock

1 investment outlooks and requirements, and does not produce a fair return on
2 equity estimate for Tampa Electric.

3

4 **Q CAN MR. HEVERT'S CAPM ANALYSIS BE REVISED TO REFLECT A MORE**
5 **REASONABLE MARKET RISK PREMIUM?**

6 A Yes. Using Mr. Hevert's risk-free rates of 3.12%, 3.25% and 5.10% (Exhibit No.
7 ____ (RBH-4), published Bloomberg beta estimate of 0.71,⁴⁰ and the 6.70%
8 Morningstar market risk premium described above, Mr. Hevert's CAPM would be
9 in the range of 7.90% to 9.90%. Using the same risk-free rates and market risk
10 premium, and the *Value Line* beta of 0.72,⁴¹ will produce a CAPM return in the
11 range of 7.90% to 9.90%⁴² for Mr. Hevert's proxy group.

12

13 **Q PLEASE DESCRIBE MR. HEVERT'S BOND YIELD PLUS RISK PREMIUM.**

14 A As shown on Exhibit No. ____ (RBH-5), Mr. Hevert constructs a risk premium
15 return on equity estimate based on the premise that equity risk premiums are
16 inversely related to the interest rates. He estimates an average electric risk
17 premium of 4.39% current, near-term and long-term over Treasury bond yields of
18 3.12%, 3.25% and 5.10% over the period January 1980 to February 2013,
19 respectively. Then he applies a regression analysis to the current, near-term and
20 long-term projected Treasury bond yields of 3.12%, 3.25% and 5.10% to produce
21 an average electric risk premium of 7.11%, 6.99% and 5.66%, respectively. This
22 in turn yields a return on equity estimate of 10.23%, 10.24% and 10.76%,
23 respectively.

⁴⁰Exhibit No. ____ (RBH-1), Document No. 5.

⁴¹*Id.*

⁴² $3.12\% + 0.71 \text{ (or } 0.72) \times 6.70\% = 7.90\%$; $3.25\% + 0.71 \text{ (or } 0.72) \times 6.70\% = 8.00\%$;
 $5.10\% + 0.71 \text{ (or } 0.72) \times 6.70\% = 9.90\%$.

1 Q IS MR. HEVERT'S BOND YIELD PLUS RISK PREMIUM METHODOLOGY
2 REASONABLE?

3 A No. Mr. Hevert's contention that there is a simplistic inverse relationship
4 between equity risk premiums and interest rates is not supported by academic
5 research. While academic studies have shown that, in the past, there has been
6 an inverse relationship with these variables, researchers have found that the
7 relationship changes over time and is influenced by changes in perception of the
8 risk of bond investments relative to equity investments, and not simply changes
9 to interest rates.⁴³

10 In the 1980s, equity risk premiums were inversely related to interest rates,
11 but that was likely attributable to the interest rate volatility that existed at that
12 time. As such, when interest rates were more volatile, the relative perception of
13 bond investment risk increased relative to the investment risk of equities. This
14 changing investment risk perception caused changes in equity risk premiums.

15 In today's marketplace, interest rate volatility is not as extreme as it was
16 during the 1980s.⁴⁴ Nevertheless, changes in the perceived risk of bond
17 investments relative to equity investments still drive changes in equity premiums.
18 However, a relative investment risk differential cannot be measured simply by
19 observing nominal interest rates. Changes in nominal interest rates are highly
20 influenced by changes to inflation outlooks, which also change equity return
21 expectations. As such, the relevant factor needed to explain changes in equity

⁴³"The Market Risk Premium: Expectational Estimates Using Analysts' Forecasts," Robert S. Harris and Felicia C. Marston, *Journal of Applied Finance*, Volume 11, No. 1, 2001 and "The Risk Premium Approach to Measuring a Utility's Cost of Equity," Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, *Financial Management*, Spring 1985.

⁴⁴"The Risk Premium Approach to Measuring a Utility's Cost of Equity," Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, *Financial Management*, Spring 1985, at 44.

1 risk premiums is the relative changes to the risk of equity versus debt securities
2 investments, and not simply changes in interest rates.

3 Importantly, Mr. Hevert's analysis simply ignores investment risk
4 differentials. He bases his adjustment to the equity risk premium exclusively on
5 changes in nominal interest rates. This is a flawed methodology and does not
6 produce accurate or reliable risk premium estimates. As such, his argument
7 should be rejected by the Commission.

8

9 **Q DO YOU HAVE ANY OTHER COMMENTS CONCERNING MR. HEVERT'S**
10 **RISK PREMIUM ANALYSES?**

11 **A** Yes. Mr. Hevert's use of projected long-term Treasury yields is not appropriate
12 because the accuracy of those projections could be highly problematic.
13 However, to limit the issues with Mr. Hevert's studies and considering the low
14 interest rate environment today, I will not take issue with his use of long-term
15 projected Treasury bond yields.

16

17 **Q CAN MR. HEVERT'S BOND YIELD PLUS RISK PREMIUM STUDY BE USED**
18 **TO PRODUCE A MORE REASONABLE RETURN ON EQUITY ESTIMATE**
19 **FOR TAMPA ELECTRIC?**

20 **A** Yes. Mr. Hevert's equity risk premium average of 4.39% applied to the Treasury
21 bond yields of 3.12%, 3.25% and 5.10%, will produce a risk premium return
22 estimate in the range of 7.51% to 9.50%. While I agree with Mr. Hevert that his
23 estimate is significantly low because it is influenced by the current low-cost
24 interest environment, I find his attempt to increase the average equity risk
25 premium by applying the notion of an inverse relationship inappropriate.

1 Q DO YOU HAVE ANY COMMENTS CONCERNING MR. HEVERT'S
2 FLOTATION COST ADJUSTMENT?

3 A Yes. Even though Mr. Hevert did not propose a specific flotation cost
4 adjustment, he estimated that a 14 basis point adder represents a reasonable
5 adjustment to account for flotation costs. He also took flotation costs along with
6 other factors into consideration when determining where the Company's return
7 on equity falls within the range of his results.⁴⁵

8

9 Q DO YOU AGREE WITH MR. HEVERT'S FLOTATION COST ESTIMATE OF
10 0.14%?

11 A No. Mr. Hevert's flotation cost estimate is flawed and it should not be taken into
12 consideration when determining a fair return for Tampa Electric.

13 Flotation costs are a legitimate cost of doing business. However, flotation
14 costs should only be included in the development of cost of service under two
15 conditions. First, the Company has to demonstrate what its actual flotation costs
16 are, and prove they are reasonable. It is not appropriate to approximate flotation
17 cost for utility companies and build that approximated cost into a utility's cost of
18 service. Costs should be known and measurable and should be verifiable and
19 most importantly should be shown to be reasonable before they are included in
20 cost of service. This is not possible if a utility's flotation costs are approximated,
21 as Mr. Hevert has done.

22 Second, and more important, Tampa Electric is not a publicly traded
23 company. Rather, it is a wholly-owned subsidiary of TECO Energy. Hence,
24 Tampa Electric does not incur costs related to selling common stock to the

⁴⁵Hevert Direct at 4 and 52.

1 market. Tampa Electric's common equity capital comes from two sources:
2 (1) retained earnings, which incur no flotation cost, and (2) equity infusion from
3 its parent company.

4 Therefore, Mr. Hevert's estimate of 14 basis points to account for flotation
5 costs should be disregarded and not considered in determining the Company's
6 return on equity.

7

8 **Q DID MR. HEVERT ALSO OFFER AN ANALYSIS TO ASSESS CURRENT**
9 **MARKET CONDITIONS IN SUPPORT OF HIS RECOMMENDED RETURN ON**
10 **EQUITY?**

11 **A** Yes. At pages 52 through 65 of his direct testimony, Mr. Hevert describes
12 several factors which he suggests gauge investor sentiment including
13 incremental credit spreads, market volatility, and the relationship between the
14 dividend yield of proxy group companies and Treasury yields. He concludes that
15 these metrics indicate that current levels of instability and risk aversion are
16 significantly higher than the levels observed prior to the recent recession.

17

18 **Q DO YOU BELIEVE THAT MR. HEVERT'S USE OF THESE MARKET**
19 **SENTIMENTS SUPPORTS HIS FINDINGS THAT TAMPA ELECTRIC'S**
20 **MARKET COST OF EQUITY IS CURRENTLY 11.25%?**

21 **A** No. Indeed, in many instances Mr. Hevert's analysis simply ignores market
22 sentiments toward utility companies, and instead lumps utility investments in with
23 general corporate investments. A broader analysis of utility securities shows that
24 the market generally regards utility securities as low-risk investment instruments,

1 and helps support the reasonable findings that utilities' cost of capital is very low
2 in today's marketplace.

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4

RESIDENTIAL SALES REVENUE

5 **Q DID TAMPA ELECTRIC FORECAST RESIDENTIAL SALES REVENUE FOR**
6 **THE 2014 TEST YEAR?**

7 **A** Yes. Tampa Electric witnesses Lorraine C. Cifuentes and William R. Ashburn
8 prepared direct testimony which addressed the projected 2014 residential sales
9 revenue. Based on Ms. Cifuentes' forecast, Mr. Ashburn presents the customer
10 and sales data used by Tampa Electric to calculate the residential sales revenue
11 at existing rates.

12

13 **Q WHAT IS THE RESIDENTIAL SALES REVENUE AT PRESENT RATES**
14 **PROPOSED BY TAMPA ELECTRIC?**

15 **A** Tampa Electric has proposed a level of residential sales revenue of
16 \$489.6 million based on 619,152 customers and total residential sales of
17 8,563,003 MWh.

18

19 **Q IS THE RESIDENTIAL REVENUE AT PRESENT RATES PROJECTED BY**
20 **TAMPA ELECTRIC REASONABLE?**

21 **A** No. I believe Tampa Electric has substantially understated the annualized level
22 of residential sales revenue at present rates.

23 Ms. Cifuentes' projection reflects a decline in average residential sales
24 per customer usage relative to that actually experienced by Tampa Electric over

1 the period 2005 through 2012. This level of sales per customer is shown below
 2 in Table 8.

TABLE 8

Residential Sales/Customer

<u>Year</u>	<u>MWh Sales¹</u>	<u>Number of Customers¹</u>	<u>Sales per Customer (MWh/Customer)</u>
2005	8,558,461	558,728	15.32
2006	8,720,867	575,111	15.16
2007	8,871,217	586,776	15.12
2008	8,546,468	587,602	14.54
2009	8,666,471	587,396	14.75
2010	9,184,729	591,554	15.53
2011	8,717,962	595,914	14.63
2012	<u>8,395,166</u>	<u>603,594</u>	<u>13.91</u>
Average			14.87
Tampa Electric Proposed 2014	8,563,003 ²	619,152 ²	13.83

Sources/Notes:

¹2005-2012 data from Tampa Electric FERC Form 1 Annual Reports.
²Tampa Electric's Minimum Filing Requirements, Schedule E-13c, page 2 of 19 (Customers = Bills + 12).

18 As shown above in Table 8, the projected 2014 test year sales per
 19 customer declines to 13.83 MWh per year. However, the actual usage/customer
 20 over the 2005-2012 ranges from 15.53 to 13.91 MWh per year and averages
 21 14.87 MWh per year.

22 As shown in the table above, the Company's projected sales significantly
 23 understate Tampa Electric's actual residential sales revenue per customer
 24 experienced over the last eight years.

25

1 Q WHY DO YOU BELIEVE THAT TAMPA ELECTRIC'S ESTIMATED
2 RESIDENTIAL REVENUE IS UNREASONABLE BASED ON THE DATA
3 ABOVE IN TABLE 8?

4 A Tampa Electric's use per residential customer projected for the 2014 test year is
5 lower than the actual sales use per customer in any year during the period 2005-
6 2012. I believe this projection is inconsistent with the data outlined in Ms.
7 Cifuentes' testimony. Specifically, she describes an economic forecast used to
8 derive the Company's projected peak demand and customer load energy sales.
9 As shown on Ms. Cifuentes' Document No. 3, the projected economic activity for
10 the Tampa Electric service territory is quite robust for the 2014 test year relative
11 to the historical period 2009-2012. For example, commercial real gross output is
12 projected to grow by 8.6% in 2014 over 2012, compared to only 4.4% growth
13 from 2010 to 2012. This would indicate strong economic growth for a
14 commercial business in the Tampa Electric area.

15 This is a strong indication that residential customers would be spending
16 more of their disposable income, which is also projected to grow by 5.6% in
17 2012-2014, compared to only 2% growth from 2010-2012. This strong increase
18 in real household income is supporting strong commercial real estate gross
19 output, and would also suggest customers are spending more on discretionary
20 items which would include electricity consumption.

21 Further, construction employment in the service territory actually declined
22 from 2010-2012 but is projected to increase by 5.5% for 2012-2014. Industrial
23 employment is projected to stay relatively flat through the period 2010-2014.

24 Further, the Company's actual load characteristics appear to be rather
25 pessimistic. For example, the actual heating and cooling degree days

1 projections as outlined on Ms. Cifuentes' Document No. 4, suggests that there
2 will be fewer heating degree days and cooling degree days in the projected
3 period relative to the actual experienced on average through the period 1992-
4 2011. Specifically, Ms. Cifuentes states that the heating degree days and
5 cooling degree days over 1992-2011 were 515 and 3,667, respectively.
6 However, for the forecast, she is expecting considerably milder heating and
7 cooling weather reflecting only 512 heating degree days and 3,655 cooling
8 degree days over the projected period 2013-2022. This change in heating and
9 cooling degree days impacts residential consumptions during the heating and
10 cooling seasons, respectively, and likely explains why she is projecting a decline
11 in average use per residential customer. I believe Ms. Cifuentes has not
12 adequately justified this expectation of lower heating and cooling weather events,
13 driving down Tampa Electric's sales for heating and cooling residential load.

14

15 **Q WOULD IT BE APPROPRIATE TO USE THE ACTUAL SALES IN CALENDAR**
16 **YEAR 2012 AS A PROJECTION FOR ACTUAL SALES IN THE 2014 TEST**
17 **YEAR?**

18 **A** No. Actual weather-related sales data included in Ms. Cifuentes' testimony
19 demonstrates that calendar year 2012 did not reflect normal residential heating
20 loads.

21

22 **Q DO YOU BELIEVE THE ANNUAL AVERAGE USAGE PER RESIDENTIAL**
23 **CUSTOMER AS PROPOSED BY TAMPA ELECTRIC IS REASONABLE?**

24 **A** No. Tampa Electric is proposing a usage per residential customer that is below
25 any level previously experienced by the Company. Referring to Table 8, the

1 annual average usage per residential customer has historically been in the 14-15
2 MWh range. The only time usage per residential customer has been below 14.5
3 in the last eight years was 2012 and as I have previously stated, the low annual
4 usage experienced that year was due to an unusually warm winter. Yet Tampa
5 Electric has proposed a level even lower than the abnormal results experienced
6 in 2012. Proposing an annual usage level less than the 2012 level highlights the
7 unreasonableness of Tampa Electric's proposal.

8

9 **Q DO YOU TAKE ISSUE WITH THE COMPANY'S PROJECTED NUMBER OF**
10 **CUSTOMERS IN THE 2014 TEST YEAR?**

11 A No. I believe the Company's projected increase in customers of 1.5% appears to
12 be reasonably consistent with its historical data. However, the use per customer
13 appears to be understated.

14

15 **Q WHAT LEVEL OF SALES DO YOU RECOMMEND BE USED TO ESTIMATE**
16 **RESIDENTIAL SALES REVENUE IN THE FORECASTED TEST YEAR IN**
17 **ORDER TO ESTIMATE TAMPA ELECTRIC'S CLAIMED REVENUE**
18 **DEFICIENCY IN THIS PROCEEDING?**

19 A I recommend the use of average residential sales of 14.25 MWh/customer. This
20 level exceeds the projection for 2014, but reflects a decline in annual usage the
21 Company has actually experienced over the period 2005-2011. However, this
22 decline I believe is skewed by 2012 data, which reflects weak economic activity,
23 and abnormally low heating degree days for the period around 2012.
24 Ms. Cifuentes' projections reflect a return to stronger economic activity, which

1 should encourage residential customers to return to more normal consumption
2 levels.

3

4 **Q WHAT IS THE IMPACT ON TAMPA ELECTRIC'S ANNUALIZED**
5 **RESIDENTIAL SALES REVENUE USING YOUR PROPOSED 14.25 MWH**
6 **LEVEL OF USAGE?**

7 **A** As shown on my Exhibit MPG-22, by using a 14.25 MWh level of usage per
8 customer, Tampa Electric's annualized residential revenues would be increased
9 by \$12.5 million.

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11 **Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

12 **A** Yes, it does.

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1 STATE OF FLORIDA)
2 COUNTY OF LEON)

CERTIFICATE OF REPORTER

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I, LINDA BOLES, CRR, RPR, Official Commission Reporter, do hereby certify that the foregoing proceeding was heard at the time and place herein stated.

IT IS FURTHER CERTIFIED that I stenographically reported the said proceedings; that the same has been transcribed under my direct supervision; and that this transcript constitutes a true transcription of my notes of said proceedings.

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

DATED THIS 10th day of September 2013.

Linda Boles

LINDA BOLES, CRR, RPR
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