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**BEFORE THE
ARIZONA CORPORATION COMMISSION**

COMMISSIONERS:

**DOUG LITTLE, Chairman
BOB STUMP
BOB BURNS
TOM FORESE
ANDY TOBIN**

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IN THE MATTER OF THE APPLICATION OF)
TUCSON ELECTRIC POWER COMPANY FOR)
APPROVAL OF ITS 2016 RENEWABLE)
ENERGY STANDARD AND TARIFF)
IMPLEMENTATION PLAN.)

DOCKET NO. E-01933A-15-0239

IN THE MATTER OF THE APPLICATION OF)
TUCSON ELECTRIC POWER COMPANY FOR)
THE ESTABLISHMENT OF JUST AND)
REASONABLE RATES AND CHARGES)
DESIGNED TO REALIZE A REASONABLE)
RATE OF RETURN ON THE FAIR VALUE OF)
THE PROPERTIES OF TUCSON ELECTRIC)
POWER COMPANY DEVOTED TO ITS)
OPERATIONS THROUGHOUT THE STATE)
OF ARIZONA AND FOR RELATED)
APPROVALS.)

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Arizona Corporation Commission

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Initial Post-Hearing Brief

of

**United States Department of Defense
and all other Federal Executive Agencies**

October 28, 2016

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Initial Post-Hearing Brief of
United States Department of Defense
and all other Federal Executive Agencies**

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Attachment A: Revenue Increase Allocation Proposal of DoD/FEA

**Initial Post-Hearing Brief of
United States Department of Defense
and all other Federal Executive Agencies**

1 The United States Department of Defense and all other Federal Executive Agencies
2 (“DoD/FEA”), by and through their undersigned counsel, file this Initial Post-Hearing Brief.

3 DoD/FEA presented two witnesses in this proceeding. Michael Gorman testified
4 concerning return on equity (“ROE”), overall cost of capital, and fair value rate of return
5 (“FVROR”). Mr. Gorman filed direct testimony, and also filed surrebuttal testimony in
6 opposition to the ROE and FVROR contained in the non-unanimous¹ Settlement Agreement
7 (“Settlement”) and recommended that rather than an increase of \$81.5 million, Tucson Electric
8 Power Company (“TEP” or “Company”) should receive an increase of not more than \$67.3
9 million.

10 DoD/FEA presented Maurice Brubaker as the witness on cost of service and revenue
11 allocation. Mr. Brubaker supports use of the average and excess (“A&E”) methodology, and
12 makes a recommendation with respect to the appropriate allocation of whatever amount of
13 increase the Commission finds appropriate for TEP. **Attachment A** to this brief sets forth how
14 DoD/FEA recommends that either the \$81.5 million increase that is the subject of the
15 Settlement, or the \$67.3 million increase that would result from adoption of DoD/FEA’s cost
16 of capital recommendations, would be allocated among customer classes. These allocations

¹Signatories were Tucson Electric Power Company; Arizona Corporation Commission Utilities Division (“Staff”); Residential Utility Consumer Office (“RUCO”); Freeport Minerals Corporation (“Freeport Minerals”); Arizonans for Electric Choice and Competition (“AECC”); Arizona Investment Council (“AIC”); Western Resource Advocates (“WRA”); Wal-Mart Stores, Inc. and Sam’s West, Inc. (collectively “Wal-Mart”); Noble Americas Energy Solutions, LLC (“Noble Solutions”); The Kroger Co. (“Kroger”); and Sierra Club.

1 are based on the methodology stated in Mr. Brubaker's direct testimony and as described at the
2 hearing. Should the Commission choose an amount in between these two numbers, the
3 appropriate allocation could be determined using the same methodology.

4 **I. NON-UNANIMOUS SETTLEMENT AGREEMENT**

5 The Settlement filed with the Arizona Corporation Commission ("Commission") on
6 August 15, 2016 is based on a proposed ROE of 9.75% and a capital structure consisting of
7 50.03% common equity and 49.97% long-term debt, which produces an overall rate of return
8 of 7.04%. It also specifies an FVROR of 5.34%, which includes a fair value return increment
9 of 1.0%. These parameters result in a revenue increase of \$81.5 million for TEP.²

10 **I.A. The Non-Unanimous Settlement Agreement is Not Reasonable**

11 DoD/FEA did not join the Settlement because it contained a revenue requirement that
12 is excessive and will produce rates that are not just and reasonable. DoD/FEA witness Gorman
13 testified that the settlement revenue requirement is overstated by at least \$14.2 million³ because
14 the rate of return component of the settlement is excessive.

15 In his surrebuttal testimony Mr. Gorman outlined the major flaws with the Settlement.
16 The Settlement is based on an inflated ROE of 9.75% and FVROR of 5.34%. Mr. Gorman
17 states that the record in this case contains irrefutable market evidence that the current market
18 cost of equity for electric utilities is no higher than 9.5%,⁴ and an FVROR is no higher than
19 5.2%. All non-Company witnesses in this proceeding recommended an ROE in the range of

²Settlement at 3-4.

³Gorman Surrebuttal at 5.

⁴Gorman Surrebuttal at 5, 7-9 and Exhibit MPG-24.

1 9.2% to 9.5%. No non-Company rate of return witness recommended an ROE above 9.5%.
 2 The overwhelming record evidence in this case proves that the Settlement ROE of 9.75% and
 3 FVROR of 5.34% are excessive and should be rejected.

4 The summary of the witnesses' recommended ROEs and FVRORs is shown below in
 5 Table 1.

TABLE 1		
<u>ROE Recommendations</u>		
<u>Party (Witness)</u>	<u>ROE Range</u>	<u>FVROR</u>
TEP (Bulkley) ¹	10.00%*	5.69%
Staff (Parcell) ²	9.2% - 9.5%	5.00%
DoD/FEA (Gorman) ²	8.9% - 9.7%	5.00%
RUCO (Mease) ²	7.91% - 9.65%	5.20%
Wal-Mart (Tillman) ²	Max 9.50%	N/A

*10.35% in Direct, revised to 10.00% in Rebuttal.

Sources:
¹TEP Ann Bulkley Direct at 3.
²TEP Ann Bulkley Rebuttal at 3, Table 1.

6 An ROE reflecting an Original Cost ROE of 9.75% and an FVROR of 5.34% provides
 7 TEP with an effective ROE of 10.5%.⁵ A 10.5% ROE is amongst the highest authorized ROEs
 8 for an integrated electric utility company in the last seven years.⁶ The record evidence shows
 9 that authorized ROEs for electric utilities have ranged from 9.58% to 9.8% most recently, and

⁵a) ROR = Settlement Req. Operating Income ÷ OCRB = 7.427% = \$151.9 million ÷ \$2,045.2 million.

b) ROR Less Weighted Debt Cost (2.159%) = (49.97% x 4.32%) = 7.427% - 2.159%.

c) (7.427% - 2.159%) ÷ Common Equity Weight of 50.03% = 10.53%.

⁶Gorman Direct, Exhibit MPG-13.

1 these authorized ROEs have supported improvements to utilities' credit ratings and access to
2 substantial amounts of capital to fund large capital programs at reasonable terms and prices.⁷
3 A settlement that contains an excessive rate of return is not balanced and fair, and would
4 produce rates that are not just and reasonable.

5 II. COST OF COMMON EQUITY

6 DoD/FEA filed testimony on ROE and proposed capital structure that will support a fair
7 compensation for TEP's investment risk and will preserve the Company's financial integrity
8 and credit standing while finding an equitable balance between customers and shareholders,
9 recognizing the reality of the economic hardships of TEP's customers.

10 The recommendations of intervenors reflect current market conditions under which
11 utilities, including TEP, have strong and improving credit ratings and are able to access capital
12 at low costs. TEP Witness Ann Bulkley's recommendation of 10.35%, revised to 10.00% in
13 rebuttal, as well as TEP's requested fair value increment of 1.42%,⁸ is unrealistic and inflated.
14 As DoD/FEA witness Michael Gorman testified, the principal flaws in TEP witness Bulkley's
15 analysis are that: (1) her constant growth DCF model is based on excessive and unsustainable
16 growth estimates; (2) her multi-stage DCF is based on an unrealistic gross domestic product
17 ("GDP") estimate; (3) her CAPM assumes inflated market risk premiums; (4) her bond yield
18 plus risk premium model is based on inflated equity risk premiums; and (5) her risk premium
19 studies are based on stale Treasury yields.⁹ Due to these errors, Ms. Bulkley's recommendation
20 significantly overstates TEP's market cost of equity.

⁷*Id.*

⁸Bulkley Direct at 3 and Bulkley Rebuttal at 80.

⁹Gorman Direct at 54.

1 **II.A. Market Conditions**

2 In setting ROE, it is important to consider current market conditions. The evidence in
3 this case shows that the market continues to embrace the utility industry as a low-risk
4 investment, that utilities have been able to access large amounts of capital at low cost to fund
5 large capital programs and that the industry's credit outlook is stable.¹⁰

6 Mr. Gorman began his investigation by reviewing industry credit rating assessments by
7 Standard & Poor's ("S&P") and Moody's. S&P and Moody's both rate the utility industry as
8 "Stable".¹¹

9 Mr. Gorman also concluded that utility stocks have considerably less volatility than the
10 overall market and moved in a more stable and predictable trading range, consistent with the
11 low-risk nature of electric utility investments.¹²

12 DoD/FEA's evidence also proves that capital market costs are low for utility companies,
13 which reflects that such companies are perceived as low-risk by market participants. This is
14 illustrated by Mr. Gorman in his Exhibit MPG-14. In this exhibit, Mr. Gorman showed that
15 Moody's A-rated, such as TEP, public utility bond yield spreads currently and in 2016 were
16 lower than the spreads over the 36-year average period.¹³ This is an indication that public utility
17 bond yields are relatively low in comparison to market bond yields, providing proof that utilities
18 have access to low-cost capital in this market.¹⁴ Access to low-cost capital is also apparent by
19 comparing utility bond yields to corporate bond yields. In 2016, Baa utility bond yields traded

¹⁰*Id.* at 5-9.

¹¹*Id.*

¹²*Id.* at 8-9.

¹³Gorman Direct, Exhibit MPG-14.

¹⁴Gorman Direct at 42.

1 at a discount to that of Baa corporate bond yields, again showing that utilities' cost of capital is
2 lower than that of Baa rated general corporate issues.¹⁵

3 Mr. Gorman's review thus demonstrates that market conditions are favorable for the
4 utility industry generally. The same is true of TEP specifically. TEP's corporate bond ratings
5 from S&P and Moody's are BBB+ and A3, respectively.¹⁶

6 **II.B. The Proxy Group**

7 A utility's cost of equity is the return that investors require to invest in the utility.
8 Investors expect to achieve this return through dividends and appreciation in stock price.¹⁷
9 Because a utility's cost of equity is not directly observable, it is necessary to estimate the proper
10 return through the use of financial models such as the ones utilized by Mr. Gorman in this case.
11 These models, in turn, are applied to a proxy group of publicly traded companies that are similar
12 in total risk profile to TEP.¹⁸ Mr. Gorman reviewed Ms. Bulkley's proxy group and concluded
13 that he did not have sufficient information to confirm that her proxy group complied with her
14 selection criteria. Further, in an updated analysis, Ms. Bulkley's proxy group would be reduced
15 to 10 companies due to recent merger and acquisition ("M&A") activities. Therefore,
16 Mr. Gorman developed his own proxy group, which is based on the following criteria:

- 17 • Have investment grade credit rating from S&P and Moody's.
- 18 • Have consistently paid dividends over the last two years.
- 19 • Have positive consensus analysts' growth rates from at least one of Mr. Gorman's
- 20 sources: Zacks, SNL Financial, and Reuters.

¹⁵Gorman Direct, Exhibit MPG-14.

¹⁶Gorman Direct at 10.

¹⁷*Id.* at 16.

¹⁸*Id.* at 17.

- 1 • Have not been involved in recent merger and acquisition (“M&A”) transactions or
2 bankruptcy proceedings.
- 3 • Are classified as Regulated (80%+ of total assets are regulated) or Mostly Regulated
4 (50%-80%) by the Edison Electric Institute (“EEI”).¹⁹

5 **II.C. Mr. Gorman’s Recommendation**

6 Mr. Gorman’s recommendation in this case is based on Discounted Cash Flow (“DCF”) analyses, a Risk Premium analysis, and a Capital Asset Pricing Model (“CAPM”) analysis. His
7 recommended ROE range based on his models, his consideration of market data, and his
8 professional judgment is 8.90% to 9.70%, with a midpoint of 9.30%.²⁰

10 **II.C.1. DCF Models**

11 DCF models are based on the assumption that a current stock price represents the present
12 value of all future cash flows. Central to a DCF analysis is the dividend growth rate used in the
13 model. All things being equal, the higher the growth rate, the higher the ROE the model
14 suggests. Mr. Gorman utilized three types of DCF models: a constant growth DCF, a
15 sustainable growth DCF, and a multi-stage DCF.

16 **II.C.1.a. Constant Growth DCF Model**

17 A constant growth DCF model assumes that dividends and earnings will grow at a
18 constant rate. The inputs to the model are a current stock price, an expected dividend, and an
19 expected growth rate in dividends. For the current stock price input, Mr. Gorman used an
20 average stock price because average prices are less susceptible to market variations than spot

¹⁹Gorman Direct at 18.
²⁰*Id.* at 3.

1 prices. Specifically, Mr. Gorman used the average of the weekly high and low stock prices of
2 the utilities in the proxy group over a 13-week period ending on May 13, 2016.²¹

3 For the dividend input, Mr. Gorman started with the most recently paid annualized
4 quarterly dividend as reported by *Value Line*, adjusted to account for next year's growth.²²

5 With respect to the dividend growth rate, often the most contentious factor in a DCF
6 model, Mr. Gorman used consensus analysts' earnings growth estimates from three sources,
7 Zack's, SNL, and Reuters as of May 13, 2016.²³ Based on these consensus projections, the
8 average growth rate used for the proxy group is 5.09%.²⁴ As explained in Mr. Gorman's
9 testimony, consensus analysts' growth projections are the best measure of investor
10 expectations.

11 The results of Mr. Gorman's constant growth DCF model show an average and median
12 constant growth return for the proxy group of 8.71% and 8.70%, respectively, for the 13-week
13 analysis.²⁵

14 Ms. Bulkley argues that Mr. Gorman's assumed growth rate is too low due to two
15 outliers and suggests removing those estimates.²⁶ However, Mr. Gorman testifies that this
16 biased approach distorts the validity of the DCF model.²⁷ Therefore, relying on median results
17 as Mr. Gorman has done is a better approach to measure the central tendency of the proxy group
18 results. Further, Mr. Gorman's assumed growth rate (5.09%) is actually higher than consensus

²¹*Id.* at 24.

²²*Id.* at 25.

²³*Id.*

²⁴*Id.* at 26.

²⁵*Id.*

²⁶Bulkley Rebuttal at 59.

²⁷Gorman Surrebuttal at 11.

1 analysts' projections of GDP growth (4.20%), which as explained below is the best proxy for a
2 maximum long-term sustainable growth rate.²⁸

3 **II.C.1.b. Sustainable Growth DCF Model**

4 Mr. Gorman also performed a constant growth DCF model using sustainable growth
5 rates. The sustainable growth model is an internal growth methodology that is based on the
6 percentage of earnings retained by the utility and not paid out as dividends.²⁹ Mr. Gorman's
7 sustainable growth model showed an average sustainable growth rate for the proxy group of
8 4.46% for the 13-week period.³⁰ These growth rates, in turn, produce average and median DCF
9 results for the 13-week period of 8.06% and 7.72%, respectively.³¹ Ms. Bulkley disagrees with
10 the use of the sustainable growth DCF model, however her concerns are without merit. As
11 discussed in Mr. Gorman's surrebuttal testimony, the sustainable growth methodology is widely
12 accepted and particularly relevant for the utility industry.³²

13 **II.C.1.c. Multi-Stage Growth DCF Model**

14 Mr. Gorman also performed a multi-stage DCF model, which captures expectations that
15 a utility would have changing growth rates over time.³³ Mr. Gorman's multi-stage DCF model
16 reflected three growth periods: (1) a short-term growth period of five years, (2) a transition
17 period for years six through ten, and (3) a long-term growth period starting in year 11 through

²⁸Gorman Direct at 27.

²⁹*Id.* at 28.

³⁰*Id.*

³¹*Id.*

³²Gorman Surrebuttal at 12.

³³*Id.* at 29.

1 perpetuity.³⁴ For the short-term period, Mr. Gorman relied on the consensus analysts' growth
2 projections from his constant growth DCF model (5.09%).³⁵ For the second stage (i.e., the
3 transition period), growth rates were reduced or increased by an equal factor, which reflected
4 the difference between the analysts' growth rates and the GDP growth rate.³⁶ For the long-term
5 period, he used consensus analysts' projected growth rate for the U.S. GDP (4.20%) as a proxy
6 for the maximum sustainable growth rate for a utility company.³⁷

7 Mr. Gorman used a GDP growth projection as a proxy for the maximum sustainable
8 growth rate because, over the long term, a utility cannot be expected to sustain a growth rate
9 that exceeds the growth rate of the economy into which it sells services.³⁸ As Mr. Gorman
10 testified:

11 Utilities' earnings/dividend growth is created by increased utility
12 investment or rate base. Such investment, in turn, is driven by
13 service area economic growth and demand for utility service. In
14 other words, utilities invest in plant to meet sales demand growth,
15 and sales growth, in turn, is tied to economic growth in their
16 service areas.³⁹

17 Data from the U.S. Department of Energy Information Administration ("EIA") confirms
18 that utility growth largely tracks the U.S. GDP growth rate, but that utilities grow at a slower
19 pace. Indeed, as demonstrated by Mr. Gorman's Exhibit MPG-9, GDP growth has outpaced
20 utility sales growth for more than a decade.⁴⁰

21 Mr. Gorman's conclusion is also supported by analysts and academic publications,
22 which hold that dividends are generally expected to grow at about the same rate as the nominal

³⁴*Id.* at 30.

³⁵*Id.*

³⁶*Id.*

³⁷*Id.* at 32.

³⁸*Id.* at 30.

³⁹*Id.*

⁴⁰Gorman Direct, Exhibit MPG-9.

1 GDP.⁴¹ And it is supported by historical data showing that, from the period 1926-2014, the
2 U.S. nominal compound annual growth of the U.S. GDP exceeded the growth of the U.S. stock
3 market.⁴² Based on the foregoing, nominal GDP growth is a reasonable proxy for the highest
4 sustainable long-term growth rate of a utility. If anything, the use of GDP growth as a proxy
5 overstates the prospects for utility growth.

6 To determine the projected growth rate for the U.S. GDP, Mr. Gorman relied on the
7 publication *Blue Chip Economic Indicators* (“*Blue Chip*”), which publishes consensus
8 economists’ GDP growth projections twice a year.⁴³ Because these projections are based on a
9 consensus of economists’ views, they reflect all current outlooks and are the best available
10 measure of the market’s expectation of long-term GDP growth.⁴⁴ Specifically, Mr. Gorman
11 used the projected 5- and 10-year average GDP consensus growth rates of 4.20% as an estimate
12 of long-term sustainable growth.⁴⁵

13 Notably, *Blue Chip*’s projected growth rates are consistent with long-range forecasts
14 from other sources. For example, the EIA forecasts real GDP growth through 2040, and its data
15 produces a long-term nominal GDP growth outlook of 4.2%.⁴⁶ The Congressional Budget
16 Office (“CBO”) projection over the next 10 years is 4.0%.⁴⁷ Moody’s Analytics projects
17 nominal GDP growth of 4.1% over the next 30 years.⁴⁸ The Social Security Administration

⁴¹Gorman Direct at 31 (quoting *Fundamentals of Financial Management*, Eugene F. Brigham and Joel F. Houston, Eleventh Edition 2007, Thomson South-Western at 298).

⁴²*Id.* at 32 and *Morningstar, Inc., Ibbotson SBBI 2015 Classic Yearbook* inflation rate of 3.0% at 91, and U.S. Bureau of Economic Analysis, January 29, 2016.

⁴³Gorman Direct at 32.

⁴⁴*Id.*

⁴⁵*Id.*

⁴⁶*Id.* at 33, Table 3.

⁴⁷*Id.*

⁴⁸*Id.*

1 (“SSA”) makes economic projections out to 2090. Under its intermediate cost scenario for 50
2 years, SSA projects nominal GDP growth of 4.5%.⁴⁹ Finally, the Economist Intelligence Unit,
3 a division of *The Economist*, projects long-term nominal GDP growth of approximately 3.9%
4 out to 2050.⁵⁰ Based on all of this information, Mr. Gorman assumed a long-term sustainable
5 GDP growth rate of 4.2%.

6 Mr. Gorman’s multi-stage DCF model indicated an average ROE of 7.99% and a
7 median of 7.89% for the 13-week period.⁵¹ In her rebuttal testimony, Ms. Bulkley criticizes
8 Mr. Gorman’s multi-stage DCF model, because it is 110 basis points lower relative to historical
9 estimates.⁵² However, Mr. Gorman has clearly explained that he relied on consensus analysts’
10 estimates that provide relevant information to investors.⁵³ Hence, Ms. Bulkley’s argument is
11 without merit.

12 **II.C.1.d. Summary of DCF Results**

13 The results of Mr. Gorman’s DCF models are as follows:

⁴⁹*Id.*

⁵⁰*Id.*

⁵¹Gorman Direct at 35.

⁵²Bulkley Rebuttal at 62.

⁵³Gorman Surrebuttal at 13.

TABLE 2

Summary of DCF Results

<u>Description</u>	<u>Average</u>	<u>Median</u>
Constant Growth DCF Model (Analysts' Growth)	8.71%	8.70%
Constant Growth DCF Model (Sustainable Growth)	8.06%	7.72%
Multi-Stage Growth DCF Model	<u>7.99%</u>	<u>7.89%</u>
Average	8.25%	8.10%

1 Applying his professional judgment in light of all available data, Mr. Gorman concluded
2 that these DCF results indicate an ROE of 8.70%, which is a reasonable high-end DCF return
3 estimate primarily based on his constant growth model using consensus analysts' projections
4 of growth.⁵⁴

5 **II.C.2. Risk Premium Model**

6 Mr. Gorman also utilized a risk premium model, which is based on the concept that
7 investors require a higher return to assume greater risk.⁵⁵ Mr. Gorman's model was based on
8 two estimates of an equity risk premium. First, he estimated the difference between the required
9 return on utility common equity investments and U.S. Treasury bonds for the period 1986
10 through 2016.⁵⁶ This produced an average indicated equity risk premium of 5.46% with a five-
11 year rolling average equity risk premium ranging from 4.25% to 6.71%.⁵⁷

⁵⁴Gorman Direct at 36.

⁵⁵*Id.* at 36.

⁵⁶*Id.* at 37.

⁵⁷*Id.* at 38.

1 The second equity risk premium estimate was based on the difference between
2 regulatory commission-authorized returns on common equity and contemporary Moody's "A"
3 rated utility bond yields for the period 1986 through 2016.⁵⁸ This produced an average equity
4 risk premium of 4.08%, with a five-year rolling average premium ranging from 2.88% to
5 5.53%.⁵⁹ In order to mitigate the impact of anomalous market conditions and better capture the
6 risk premium over an entire business cycle, Mr. Gorman used the five-year rolling averages for
7 both the Treasury bond and utility bond estimates.⁶⁰

8 Mr. Gorman's recommendation considers both utility security risk and market interest
9 rate risk. To be conservative, Mr. Gorman applied 75% weight to the high end of his risk
10 premium estimates and 25% weight to the low end.⁶¹ To arrive at a recommended cost of equity
11 from his risk premium for his Treasury bond estimate, Mr. Gorman next added a projected long-
12 term Treasury bond yield of 3.50% (*Blue Chip's* 30-year projection) to a weighted equity risk
13 premium over Treasury yields of 6.09%, which produced a common equity return of 9.60%.⁶²
14 With respect to the utility bond estimate, Mr. Gorman added his average estimated equity risk
15 premium of 4.87% to a current 13-week average yield on "Baa" rate utility bonds for the period
16 ending May 13, 2016 (4.91%), resulting in a cost of equity of 9.78%.⁶³

17 This results in a risk premium estimate over U.S. Treasury bond yields of 9.60% and a
18 risk premium over "Baa" utility yields of 9.80%, with a midpoint of 9.70%.⁶⁴

⁵⁸*Id.*

⁵⁹*Id.*

⁶⁰*Id.* at 37-38.

⁶¹*Id.*

⁶²*Id.* at 43.

⁶³*Id.*

⁶⁴*Id.*

1 In her rebuttal testimony, Ms. Bulkley argues that Mr. Gorman's risk premium analysis
2 is flawed because it is inconsistent with the notion of an inverse relationship between a risk
3 premium and interest rates.⁶⁵ However, academic studies do not support the existence of a
4 simplistic inverse relationship. As Mr. Gorman testified:

5 While academic studies have shown that, in the past, there has
6 been an inverse relationship among these variables, researchers
7 have found that the relationship changes over time and is
8 influenced by changes in perception of the risk of bond
9 investments relative to equity investments, and not simply
10 changes to interest rates.⁶⁶

11 Indeed, even the studies cited by Ms. Bulkley⁶⁷ do not support her conclusion. For
12 example, while Brigham et al. found an inverse correlation between risk premiums and interest
13 rates beginning in 1980, they also found that the opposite had been true prior to that time.⁶⁸
14 And as discussed by Robert Harris, another author cited by Ms. Bulkley, the Brigham study
15 "did not provide direct empirical proxies for changes in equity risks that would explain changes
16 in equity risk premia over time."⁶⁹

17 Instead of a simplistic inverse relationship, the literature shows that risk premiums
18 change over time based not only on the level of interest rates, but also on other factors such as
19 the spread between corporate and government bond yields and the dispersion of analysts'
20 forecasts.⁷⁰ The academic studies conclude that "[o]ne would expect changes in measured
21 equity risk premia to be related to changes in perceived riskiness."⁷¹ Neither logic nor academic

⁶⁵Bulkley Rebuttal at 69-70.

⁶⁶Gorman Direct at 64-65.

⁶⁷*Id.*

⁶⁸*Id.*

⁶⁹*Id.*

⁷⁰*Id.*

⁷¹*Id.*

1 findings support Ms. Bulkley's assertion that the premium investors require to purchase stocks
2 compared to debt securities is based purely on the level of interest rates.

3 In sum, changes in risk premiums are attributable to changes in the perceived relative
4 investment risk of equity and debt securities based on current market conditions.⁷² Because
5 Ms. Bulkley ignores investment risk differentials in favor of a simplistic inverse relationship
6 between an equity risk premium and interest rates, her criticism of and adjustment to Mr.
7 Gorman's risk premium model should be rejected.

8 Ms. Bulkley also argues that Mr. Gorman's use of a five-year rolling average equity risk
9 premium is not supported by any evidence. This argument is without merit and should be
10 rejected because Mr. Gorman discussed in detail in his direct testimony the reasoning for using
11 a rolling average methodology.⁷³

12 I.L.C.3. CAPM

13 Mr. Gorman also ran a CAPM analysis to estimate TEP's cost of equity. CAPM is
14 based on the concept that the market-required rate of return for a security equals the risk-free
15 rate plus a risk premium associated with the specific security.⁷⁴ The inputs for Mr. Gorman's
16 CAPM are an estimate of the market risk-free rate, the company's beta, and the market risk
17 premium.

18 For the risk-free rate, Mr. Gorman used *Blue Chip's* projected 30-year Treasury bond
19 yield of 3.50%.⁷⁵ This is a reasonable proxy for the risk-free rate because Treasury securities

⁷²*Id.*

⁷³Gorman Surrebuttal at 17.

⁷⁴Gorman Direct at 44.

⁷⁵*Id.* at 45.

1 are backed by the full faith and credit of the U.S. government and thus have negligible credit
2 risk. Moreover, long-term Treasury bonds have a similar investment horizon to common stock,
3 meaning that both reflect investor expectations of long-term inflation.⁷⁶

4 The “beta” is the investment risk of a specific stock that cannot be diversified away
5 when the stock is held in a diversified portfolio.⁷⁷ For this input, Mr. Gorman used the average
6 *Value Line* beta estimate for the proxy group companies of 0.75.⁷⁸

7 With respect to the market risk premium, Mr. Gorman developed two estimates, one
8 forward looking and one based on a long-term historical average. Mr. Gorman derived the
9 forward-looking estimate by estimating the expected return on the S&P 500 and subtracting the
10 risk-free rate. Mr. Gorman obtained the expected return on the S&P 500 by adding an expected
11 inflation rate to the long-term historical arithmetic average real return on the market.
12 Specifically, Mr. Gorman used Duff & Phelps’s average real market return over the period 1926
13 to 2014 (8.9%), and added that to the current consensus analysts’ inflation projection as
14 measured by the Consumer Price Index (2.3%), resulting in an expected market return of
15 11.40%. Subtracting the risk-free rate of 3.50% from this return yields a market risk premium
16 of 7.90% for the forward-looking analysis.⁷⁹

17 For the historical estimate of the market risk premium, Mr. Gorman started with Duff
18 & Phelps’s estimated arithmetic average of the achieved total return on the S&P 500 from 1926
19 to 2014 (12.1%) and subtracted the total return on long-term Treasury bonds (6.1%).⁸⁰ This
20 results in a market risk premium of 6.0%. The average of Mr. Gorman’s two market premium

⁷⁶*Id.*

⁷⁷*Id.* at 44.

⁷⁸*Id.* at 46.

⁷⁹*Id.* at 46-47.

⁸⁰*Id.* at 47.

1 estimates is thus 7.0% (6.0% to 7.9%).⁸¹ Mr. Gorman confirmed the veracity of his estimates
2 by comparing them to Morningstar's market risk premiums, which are in the range of 6.3% to
3 7.0%.⁸² This is evidence that Mr. Gorman's market risk premiums are reasonable.

4 Mr. Gorman's CAPM analysis produces a return in the range of 8.01% to 9.44%. Due
5 to the relatively low historical level of risk-free rates, Mr. Gorman concluded a reasonable
6 CAPM cost of equity estimate is 9.1%, giving 75% weight to his high-end estimate.⁸³

7 In addition to the inverse relationship argument discussed above, Ms. Bulkley criticizes
8 Mr. Gorman's historical market risk premium for not reflecting the current market conditions.
9 As discussed in Mr. Gorman's surrebuttal testimony, this argument is without merit. Mr.
10 Gorman fully captures the current market conditions by giving 75% weight to his high-end
11 estimates.⁸⁴ Further, Ms. Bulkley responded to Mr. Gorman's criticism of using a forward-
12 looking expected return by simply stating that that was the methodology endorsed by the
13 Federal Energy Regulatory Commission ("FERC"). However, as Mr. Gorman testifies, her
14 forward-looking market return is based on overstated growth rate estimates and should be
15 rejected.⁸⁵

⁸¹*Id.*

⁸²*Id.* at 48-49.

⁸³*Id.* at 49.

⁸⁴Gorman Surrebuttal at 15.

⁸⁵*Id.* at 16.

1 **II.C.4. Summary of ROE Analyses**

2 The results of Mr. Gorman's analyses are set out below:⁸⁶

<u>Description</u>	<u>Results</u>
DCF	8.7%
Risk Premium	9.7%
CAPM	9.1%

3 Based on the results of these analyses, Mr. Gorman's recommended range for TEP's
4 ROE is 8.90% to 9.70%, with a midpoint of 9.30%. The low end of this range is based on the
5 DCF and CAPM results, while the high end is the based on the risk premium studies. An ROE
6 of 9.30% would fairly compensate investors for TEP's total investment risk. And, as set out in
7 detail in Mr. Gorman's testimony, it would preserve TEP's financial integrity and support an
8 investment grade bond rating for the Company. Mr. Gorman's ROE recommendation should
9 be adopted.

10 **II.D. Ms. Bulkley's Recommendation**

11 In her direct testimony, Ms. Bulkley recommended a range of 10.00% to 10.60%, with
12 a point estimate of 10.35%, and a fair value increment of 1.42%.⁸⁷ Similarly, the Company's
13 revised ROE proposal of 10.00% is unreasonable and should be rejected. Ms. Bulkley's

⁸⁶Gorman Direct at 50.

⁸⁷Bulkley Direct at 3.

1 recommended return for TEP substantially exceeds a fair rate of return and its current market
2 cost of equity capital. The flaws in Ms. Bulkley's estimates are explained below.

3 **II.D.1. Constant Growth DCF**

4 Ms. Bulkley's constant growth DCF assumes an unreasonable growth rate for her proxy
5 group of 5.55%, which is substantially higher than analysts' growth outlooks, even over the
6 next three to five years.⁸⁸

7 Ms. Bulkley's constant growth DCF model produces ROE estimates in the range of
8 9.29% to 9.59%, with a midpoint of 9.45%. These results should be considered as reasonable
9 high-end estimates, because they are subject to an excessive growth rate.

10 **II.D.2. Multi-Stage Growth DCF**

11 Ms. Bulkley's multi-stage DCF results are illogical and suspect because she uses a lower
12 growth rate of 5.40% relative to the average growth rate in her constant growth DCF model,
13 but produces higher multi-stage DCF returns. As such, her multi-stage DCF study appears to
14 be unreasonable.

15 Most importantly, Ms. Bulkley's multi-stage DCF model uses an inflated long-term
16 growth rate. To come up with her long-term rate input, Ms. Bulkley simply takes the historical
17 GDP growth rates for the period from 1929 to 2014 and adds a current inflation rate to create a
18 nominal GDP growth rate.⁸⁹ The historical real GDP growth rate is 3.25%, and Ms. Bulkley
19 used an inflation rate of 2.09%. This produces a 5.40% nominal GDP growth rate. As an initial

⁸⁸Gorman Direct at 56.

⁸⁹Bulkley Direct at 28.

1 matter, Ms. Bulkley fails to explain the basis of her assumption that a historical real GDP
2 growth rate is appropriate for projecting future growth. The world economy has changed a
3 great deal since 1926, and Ms. Bulkley has provided no credible evidence that the U.S. economy
4 will simply grow at the exact same rate in the future that it has in the past. Nor has she provided
5 evidence that investors expect the historical rate to prevail in the future.

6 Further, Ms. Bulkley's use of a historical real GDP growth rate is inflated in light of
7 current economic outlooks. As Mr. Gorman demonstrated in the following chart, Ms. Bulkley's
8 historical real GDP growth rate is significantly higher than independent consensus economists'
9 projections of long-term GDP growth in the future.⁹⁰

<u>Description</u>	<u>GDP Inflation</u>	<u>Real GDP</u>	<u>Nominal GDP</u>
Ms. Bulkley	2.1%	3.3%	5.40%
Consensus Economists (5-Year)	2.1%	2.1%	4.20%
Consensus Economists (10-Year)	2.0%	2.1%	4.20%

10 Ms. Bulkley can cite no analysts' projections of long-term GDP growth that are
11 consistent with her inflated estimate. Because her historically derived GDP growth rate
12 overstates future long-term growth, Ms. Bulkley's multi-stage DCF model overestimates the
13 cost of equity for the proxy group.

14 For all these reasons, Ms. Bulkley's multi-stage DCF model produces an exaggerated
15 return estimate. Mr. Gorman testified that Ms. Bulkley's model could be corrected if consensus

⁹⁰Gorman Direct at 59.

1 economists' projections were used for the GDP growth rate. This reduces Ms. Bulkley's multi-
2 stage DCF estimated return from 9.62% to 8.68%.⁹¹

3 II.D.3. CAPM

4 Ms. Bulkley's CAPM analysis is flawed because it uses an inflated market risk
5 premiums of 10.33%, 9.85% and 8.61%.⁹² These premiums are based on a market DCF return
6 of 13.41%. The DCF returns, in turn, include stock market index growth rates of approximately
7 11.23%.⁹³ As explained in Mr. Gorman's testimony, the DCF model requires the use of a long-
8 term sustainable growth rate, but a growth rate of 11.23% is far too high to be a reasonable
9 outlook for sustainable long-term stock market growth.⁹⁴ Indeed, these rates are more than
10 double consensus economists' projections of GDP growth (4.20%). Mr. Gorman also takes
11 issue with Ms. Bulkley's risk-free rates because they are almost a year old.

12 Because Ms. Bulkley's long-term market growth rate estimates are unreasonably high,
13 her CAPM analysis produces an inflated return. Mr. Gorman testified that Ms. Bulkley's
14 CAPM analysis could be adjusted to provide a more reasonable result. Specifically, using
15 (i) Ms. Bulkley's updated current (2.72%), near-term (3.15%) and projected (4.50%) risk-free
16 rates, (ii) beta estimates of 0.696 (*Value Line*) and 0.767 (Bloomberg), and (iii) a market
17 premium of 7.0%, which is the highest Morningstar estimate, results in a CAPM estimated
18 return no higher than 8.8%.⁹⁵

⁹¹Gorman Direct at 60.

⁹²Bulkley Direct, Exhibit AEB-5.

⁹³Gorman Direct at 62.

⁹⁴*Id.*

⁹⁵Gorman Direct at 63.

1 **II.D.4. Bond Yield Risk Premium**

2 Ms. Bulkley also ran a bond yield risk premium model, which is based on her
3 assumption that there is an inverse relationship between the level of interest rates and the equity
4 risk premium. Ms. Bulkley starts with an average electric risk premium of 5.65% over the
5 period January 1980 to second quarter of 2015. However, based on the assumed inverse
6 relationship, Ms. Bulkley applies a regression analysis to Treasury bond yields to increase this
7 risk premium to a range of 5.86% to 6.82%, which results in ROE estimates in the range of
8 9.91% to 10.66%.⁹⁶

9 As discussed above, Ms. Bulkley's assumption of a simple inverse relationship is
10 inaccurate. Academic findings support the common-sense notion that investors look at the
11 totality of risk when deciding whether to purchase a stock or a debt security and do not rely
12 exclusively on the level of interest rates. Accordingly, Ms. Bulkley's attempt to use a regression
13 analysis to increase the risk premium she calculated should be rejected. Applying Ms.
14 Bulkley's average equity risk premium over Treasury yields of 5.65% to Ms. Bulkley's current
15 consensus Treasury yield of 3.50%, will produce a CAPM return of 9.15%.⁹⁷

16 **II.E. Summary of ROE**

17 For all of the foregoing reasons, Ms. Bulkley's recommendation should be rejected.
18 DoD/FEA requests that the Commission adopt Mr. Gorman's recommendation of an ROE of
19 9.30% for TEP.

⁹⁶Exhibit AEB-6.

⁹⁷Gorman Direct at 65.

1 **II.F. Financial Integrity**

2 Mr. Gorman also assessed the reasonableness of his recommended ROE of 9.3%
3 based on S&P key credit rating financial ratios. Mr. Gorman concluded at his recommended
4 ROE, the Company's proposed embedded cost of debt and actual test-year end capital
5 structure, TEP will support its investment grade bond rating.⁹⁸

6 **II.G. Capital Structure**

7 TEP's proposed capital structure consists of 50.03% common equity capital and 49.97%
8 long-term debt.⁹⁹ Mr. Gorman disputes TEP's proposed capital structure because it is not based
9 on actual capital structure weights at the end of the test-year period. Alternatively, he proposes
10 a capital structure consisting of 48.69% common equity and 51.31% long-term debt capital as
11 provided by the Company on Schedule D-1.

12 In his rebuttal testimony, Mr. Grant explained that the two debt issuances that were
13 removed from the actual long-term debt balance are "known and measurable" and should be
14 reflected in the Company's proposed capital structure.¹⁰⁰ However, Mr. Gorman explained in
15 great detail in his direct and surrebuttal testimonies that TEP's actual capital structure has
16 supported the Company's strong investment grade credit rating while allowing TEP to access
17 external capital at reasonable prices to support its capital improvement programs. Therefore,
18 there is no justifiable reason to increase the Company's common equity ratio and inflate the
19 revenue requirements.

⁹⁸*Id.* at 53-54.

⁹⁹Grant Direct at 12 and Schedule D-1, page 1.

¹⁰⁰Grant Rebuttal at 8.

1 Ms. Bulkley also criticizes Mr. Gorman's proposed capital structure primarily because
2 he compared his recommendation to the capital structure of the proxy group companies instead
3 of their operating subsidiaries.¹⁰¹ While Mr. Gorman does not dispute the fact that comparing
4 his recommended capital structure to the capital structures of the proxy group operating
5 subsidiaries provides a reasonable comparative basis, he disagrees with Ms. Bulkley that it is
6 inappropriate to use the proxy group capital structure when determining the reasonableness of
7 his recommendation because these are the companies used to determine a fair return for TEP
8 based on the companies' credit rating as a risk-comparable screening criteria. Further, electric
9 utility subsidiaries also show that capital structures do not include as much as equity as
10 proposed by TEP. Most importantly, Mr. Gorman presents market evidence that shows that
11 TEP's actual capital structure mix is adequate to support the Company's access to capital and
12 its current investment bond rating. Therefore, TEP's proposal to increase its actual common
13 equity ratio should be rejected.¹⁰²

14 **II.H. Fair Value**

15 Ms. Bulkley's estimate of an FVROR for TEP is flawed because it does not accurately
16 measure market participants' required cost of capital for TEP, or alternative comparable
17 investment risk utilities. Rather, Ms. Bulkley's FVROR is largely driven by projections of
18 Treasury bond yields five to ten years into the future, rather than current observable cost of
19 capital for TEP and other electric utilities in the current capital market, or in the capital market
20 projected to prevail during the period TEP's rates will be in effect.¹⁰³ Using Ms. Bulkley's own

¹⁰¹Gorman Surrebuttal at 19.

¹⁰²Gorman Surrebuttal at 20.

¹⁰³*Id.* and Exhibit MPG-23, page 2.

1 methodology, but substituting current observable Treasury bond yields, and Treasury bond
2 yields projected by independent economists over the expected rate-effective period for this
3 proceeding, demonstrates that an FVROR should be no higher than 5.1%.¹⁰⁴ This evidence
4 clearly shows that TEP's original requested FVROR of 5.69% and the settlement FVROR of
5 5.34% are excessive and should be rejected.

6 Ms. Bulkley recommends an FVROR of 5.69% to be applied to TEP's Fair Value Rate
7 Base ("FVRB") of \$2.9 billion, which is the weighted average of the Original Cost Rate Base
8 ("OCRB") of \$2.1 billion (50%) and the Reconstruction Cost New, Depreciated ("RCND") rate
9 base of \$3.7 billion (50%). This methodology results in a fair value increment of 0.54% to the
10 Company's ROR-ORCB of 7.34%.¹⁰⁵

11 Mr. Gorman testifies that it is not appropriate to add an incremental rate of return to the
12 ROR-OCRB to support a higher requested operating income because investors should be fairly
13 compensated using either the original cost or a fair value methodology. Specifically, Mr.
14 Gorman states:

15 The primary difference between an ROR-OCRB and an ROR-FVRB relates to
16 compensating investors for the expected investment growth. In an ROR-OCRB,
17 the expected growth rate in asset values is included in the rate of return and
18 investors are compensated for this growth in the utility's operating income.
19 Conversely, in a fair value methodology, expected growth in the value of the
20 assets is picked up in the growth to the rate base itself, and not in the rate of
21 return.¹⁰⁶

22
23 Even though Mr. Gorman disagrees with the Company's application of the fair value
24 methodology, he revises the Company's proposed 0.54% rate of return increment to reflect his

¹⁰⁴Gorman Surrebuttal at 4-5, and Exhibit MPG-23, page 2.

¹⁰⁵Gorman Direct at 70.

¹⁰⁶Gorman Direct at 71.

1 proposed actual capital structure, his recommended ROE of 9.30% and his updated risk-free
2 rate of 0.92%, which results in a fair value increment of 0.18%.¹⁰⁷

3 In her rebuttal testimony, Ms. Bulkley criticizes Mr. Gorman for using current
4 observable risk-free rates and proposes to give primary weight to the projected risk-free rates.¹⁰⁸
5 As Mr. Gorman explained, this is a major flaw in Ms. Bulkley's analysis because current market
6 evidence is the best information available to market participants investing in TEP utility plant.
7 Therefore Ms. Bulkley's fair methodology should be rejected as inconsistent with market
8 evidence and not a reasonable measure of the current market cost of equity.

9 **III. COST OF SERVICE AND REVENUE ALLOCATION**

10 DoD/FEA presented Maurice Brubaker as its witness on cost of service and revenue
11 allocation. Mr. Brubaker was cross-examined on his testimony on September 9, 2016.

12 **III.A. Cost of Service**

13 Mr. Brubaker presented a detailed recitation of the process and the components of cost
14 of service studies, highlighting functionalization, classification and allocation. For the most
15 part, there is general agreement among all of the cost of service witnesses in this case as to these
16 various steps and elements.

17 Beginning at page 20 of his direct testimony, Mr. Brubaker outlined the primary reasons
18 for basing rates on cost of service. Those primary reasons are to achieve equity, to enhance the
19 opportunities for conservation, and to permit cost minimization consistent with cost of service
20 and providing economically rational price signals.

¹⁰⁷*Id.* at 73-75.

¹⁰⁸Gorman Surrebuttal at 20.

1 The objective of basing rates on cost of service was also supported by TEP witness
2 Jones (Direct Testimony at page 4), TEP witness Overcast (Rebuttal Testimony at page 22),
3 Staff witness Solganick (Direct Testimony at page 3), RUCO witness Radigan (Direct
4 Testimony at pages 2 and 6) and Freeport/AECC/Noble Americas witness Higgins (Direct
5 Testimony at page 3).

6 In terms of the specific cost of service methodology that should be used in this case, the
7 witnesses were essentially unanimous that an average and excess (“A&E”) methodology should
8 be employed. (See Direct Testimony of TEP witness Jones at page 4, Rebuttal Testimony of
9 TEP witness Overcast at page 60, Direct Testimony of Staff witness Solganick at page 20,
10 Direct Testimony of RUCO witness Radigan at pages 2 and 6 and Direct Testimony of
11 Freeport/AECC/Noble Americas witness Higgins at page 2). To be sure, there were nuances
12 of application of the A&E methodology, but as Mr. Brubaker testified during cross-examination
13 (September 9, 2016 Transcript at pages 255-256), these nuances had little impact on the overall
14 outcome of the cost of service studies, so there was basic alignment with the relative degree of
15 profitability of the various customer classes as indicated by these studies.

16 Mr. Brubaker noted at page 3 of his direct testimony that the A&E methodology, and
17 coincident peak methodologies are the two generally accepted and most widely used methods
18 for allocating generation and transmission fixed costs that would be applicable to TEP. Given
19 the high summer demands of TEP relative to demands in other months, there also was general
20 agreement that the peak portions of the cost of service study should be based on loads imposed
21 on the electric system during the summer peak months. This explains why the different
22 variations of average and excess concentrated on either the coincident peaks during the four
23 summer months, or the non-coincident peaks during the four summer months.

1 **III.B. Revenue Allocation**

2 In addition to the general agreement on cost of service methodology, the parties also
3 generally agreed in a broad sense that the Large Power Service (“LPS”) class was being charged
4 too much in relation to cost of service, and also agreed that it should receive a decrease, or an
5 increase less than the system average increase.

6 TEP witness Jones explained at page 4 of his direct testimony the rationale for the
7 allocation of the revenue increase that TEP was proposing. Essentially, alignment of revenues
8 with cost of service was the objective. Company Schedule A-1 showed that as compared to an
9 overall proposed increase of 12%, TEP proposed a 16.2% increase for the Residential class and
10 a 27% increase for the Lighting class, the two classes with the lowest relative rate of return.
11 The LPS class was proposed to receive a 2.4% decrease, in recognition of its cost of service in
12 relation to current rates. Mr. Higgins (page 26 of Direct) proposed a decrease of about 7% for
13 the LPS class. In terms of the allocation of the “settlement” revenue requirement, page 18 of
14 his surrebuttal testimony shows that he proposed approximately a 5% overall decrease for the
15 LPS class.

16 Exhibit HS-4 to Staff witness Solganick’s direct testimony also showed a proposed
17 decrease for the LPS class. Staff’s proposal in surrebuttal testimony moved somewhat away
18 from this position, but still recognized that the LPS class was substantially over priced, and
19 should receive either a decrease, or an increase that is well below both the system average, and
20 the increase to the Residential class.

21 In his rejoinder testimony, TEP witness Jones (see Exhibit CAJ-RJ-1, Schedule H-1,
22 page 1) totally reversed course and now proposes an overall increase to the LPS class. This

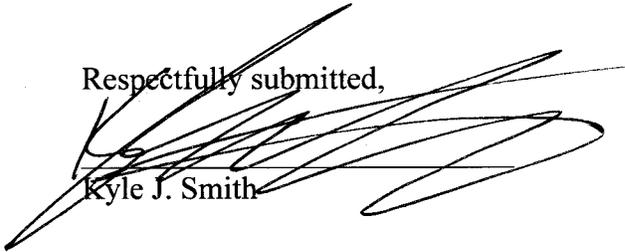
1 moves in absolutely the wrong direction, and is unreasonable. As Mr. Brubaker pointed out
2 under cross-examination (September 9, 2016 Transcript at pages 249-250), as the Company's
3 case moved from direct testimony to rebuttal to rejoinder, its revenue allocation proposal
4 became less and less cost-based.

5 During cross-examination (September 9, 2016 Transcript, pages 256-257) DoD/FEA
6 witness Brubaker explained, in response to a question from the Administrative Law Judge
7 ("ALJ"), how the revenue allocation recommendation in his testimony would be implemented.
8 That recommendation was to maintain the Residential class increase at the level proposed by
9 TEP regardless of the overall increase granted, and to proportion down the revenues to be
10 received from the other customer classes on a linear (equal proportional) basis. Attached to this
11 brief as **Attachment A** is a summary showing how this would work. Two levels of revenue
12 increase are illustrated. First, the non-unanimous "settlement increase" of \$81.5 million is
13 illustrated. Also shown is the allocation of the \$67.3 million increase that would result from
14 the adoption of the DoD/FEA recommendation concerning ROE.

15 In order to make meaningful progress toward class cost of service, the allocation
16 proposal of DoD/FEA should be accepted. It moves toward cost of service, yet incorporates a
17 healthy dose of gradualism. The above average increase to the Residential class is essential to
18 closing the gap. As Mr. Brubaker explained during his cross-examination (September 9, 2016
19 Transcript, page 248) gradualism was part of his proposal, but in interpreting the reasonableness
20 of the gradualism proposal it was necessary to recognize that, unlike in practically every other
21 utility, the Residential class rate of return was actually negative (or very low depending upon
22 which cost of service study is utilized). Simply stated, TEP's proposed revenue allocation, as
23 set forth in its rejoinder testimony, fails to make meaningful movement toward cost of service

1 for the various customer classes. All parties agree that movement to cost of service is
2 appropriate. The issue is how best to accomplish that objective while still observing the
3 principle of gradualism. DoD/FEA submits that its proposal as illustrated in **Attachment A**
4 best accomplishes those twin objectives.

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Respectfully submitted,

Kyle J. Smith

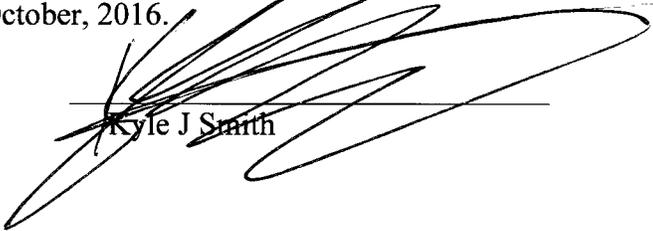
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For
The United States Department of Defense
And
All Other Federal Executive Agencies

1 **CERTIFICATE OF SERVICE**

2
3 The original and thirteen (13) copies of the foregoing is being transmitted Federal
4 Express overnight delivery this 27th day of October, 2016, to be received and filed on the 28th
5 day of October, 2016 with:

6
7 Docket Control Division
8 Arizona Corporation Commission
9 1200 West Washington Street
10 Phoenix, Arizona 85007

11
12 Copies of the foregoing were also transmitted via regular U.S. Mail or electronic mail
13 to all parties on the service list on this 28th day of October, 2016.

14
15 

Kyle J Smith

Arizona Corporation Commission
Docket No. E-01933A-15-0322
Tucson Electric Power Company

Revenue Increase Allocation Proposal of
the United States Department of Defense and
All Other Federal Executive Agencies
(Dollar Amounts in Millions)

Line	Rate Class	Adj. TY Revenue (1)	Revenue after Increase (2)	Proposed Increase (3)	Percent Increase (4)
<u>"Settlement Increase" of \$81.5 Million</u>					
1	Residential	\$404.6	\$470.0	\$65.4	16.2%
2	General Service	249.2	244.3	(4.9)	-2.0%
3	Lg Gen. Service	119.2	148.9	29.7	25.0%
4	Lg Pwr. Service	131.7	121.9	(9.9)	-7.5%
5	Lighting	4.7	5.7	1.1	23.1%
6	Total	\$909.3	\$990.8	\$81.5	9.0%
<u>"DOD/FEA Proposed Increase" of \$67.3 Million</u>					
7	Residential	\$404.6	\$470.0	\$65.4	16.2%
8	General Service	249.2	237.6	(11.6)	-4.6%
9	Lg Gen. Service	119.2	144.9	25.7	21.5%
10	Lg Pwr. Service	131.7	118.5	(13.2)	-10.0%
11	Lighting	4.7	5.6	0.9	19.7%
12	Total	\$909.3	\$976.6	\$67.3	7.4%