MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT

FILED March 6, 2017 Data Center Missouri Public Service Commission

REVENUE REQUIREMENT COST OF SERVICE



KANSAS CITY POWER & LIGHT COMPANY

CASE NO. ER-2016-0285

Jefferson City, Missouri November 30, 2016

** Denotes Highly Confidential Information **

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STAFF REVENUE REQUIREMENT COST OF SERVICE REPORT KANSAS CITY POWER & LIGHT COMPANY CASE NO. ER-2016-0285

I. Background of KCP&L

6 Kansas City Power & Light Company ("KCPL") is a Missouri corporation and 7 integrated, regulated electric utility that engages in the generation, transmission, distribution and 8 sale of electricity. KCPL distributes and sells electric service to customers in its certificated 9 areas in western Missouri and eastern Kansas and serves approximately 527,000 customers. 10 KCPL participates in the Southwest Power Pool's ("SPP") integrated market and participates in Federal Energy Regulatory Commission ("FERC") jurisdictional contracts. KCPL is an 11 12 "electrical corporation" and "public utility" subject to the jurisdiction, supervision, and control of the Missouri Public Service Commission ("the Commission") under Chapters 386 and 393 of the Revised Statues of Missouri. KCPL is wholly-owned by Great Plains Energy Incorporated ("Great Plains" or "GPE") and is an affiliate of KCP&L Greater Missouri Operations Company ("GMO"). KCPL and GMO collectively operate and present themselves to the public under the brand and service mark "KCP&L." Great Plains is a public utility holding company regulated under the Public Utility Holding Company Act of 2005, which was enacted as part of the Energy Policy Act of 2005. Great Plains does not provide electric service to retail customers.

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continued on next page

Approximate customer counts for total KCPL (Kansas and Missouri) from 2006 through

- 2 2015 follow:
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Year	Total	Residential	Commercial	Industrial, Municipal and Other Electric Utilities
2015	527,000	465,200	59,700	2,100
2014	520,700	459,000	59,600	2,100
2013	514,700	453,900	58,700	2,100
2012	511,800	451,500	58,200	2,100
2011	511,000	451,000	58,000	2,100
2010	510,000	450,000	58,000	2,000
2009	509,000	450,000	57,000	2,000
2008	509,000	449,000	58,000	2,000
2007	506,000	446,100	57,600	2,300
2006	505,000	446,000	57,000	2,200

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Source: KCPL and Great Plains' 2006-2015 Annual Reports at page 9

Following a 2008 restructuring, KCPL employees perform all the work for Great Plains and its
subsidiaries, including GMO. Great Plains and KCPL had 2,899 employees as of December 31,
2015. Of these 2,899 employees, 1,789 employees are represented by three local unions of the
International Brotherhood of Electrical Workers ("IBEW"). The local labor unions and when
each labor agreement expires are:

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Labor Union	Representing	Labor Agreements Expire
Local 1613	Clerical employees	March 31, 2018
Local 1464	Transmission & Distribution Workers	January 31, 2018
Local 412	Power Plant Workers	February 28, 2018

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12 Staff Expert/Witness: Tammy Huber

II. Executive Summary

On July 1, 2016, KCPL applied to increase revenues, before impacts of the rebasing of fuel for the Fuel Adjustment Clause (FAC), \$62.9 million or 7.52% for KCPL Missouri jurisdiction. The aggregate annual increase over current revenues that the tariffs proposed, including the rebasing of fuel for the FAC, is \$90.1 million or 10.77% for KCPL.¹ KCPL

¹ Direct Testimony of Darrin R. Ives, page 5.

proposed a return on equity ("ROE") of 9.90%. If granted, this revenue requirement would produce an approximate 7.52% increase to each customer class. This increase is over the current revenues of \$836.5 million. Also in its Direct Filing, KCPL proposed to continue reflecting approved fuel and purchased power increases and decreases in the FAC. The fuel and purchased power is rebased in each general rate request, resulting in an additional 3.3% increase in base rates in this case.

Staff reviewed all cost-of-service components (capital structure, return on rate base, rate base, depreciation expense and operating expenses) that comprise KCPL's revenue requirement.

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Based on the information available at the time of filing Staff's Cost of Service Report, Staff does not have enough information to support a change in rates. If the Commission determines new rates are appropriate, Staff recommends a ROE of 8.65%, which is on the upper end of the equity cost rate range of 7.9% to 8.75%. Combined with recommended capitalization ratios and senior capital cost rate, overall rate of return cost of capital for KCPL is 7.01%.

Below are definitions of technical terms that will frequently be used in the Cost ofService Report:

Test Year: The test year income statement is the starting point for determining a utility's existing annual revenues, operating costs, and net operating income. In this case, the test year is the 12 months ending December 31, 2015.

Update Period: The standard practice in ratemaking in Missouri to utilize a period, beyond the established test year for a case, in which to match the major components of a utility's revenue requirement. The update period that was agreed to for this particular case is the 12 months ending June 30, 2016.

True-Up: A true-up date generally is established when a significant change in a utility's cost of service occurs after the end of the update period, but prior to the operation-of-law date, and one or more of the parties has decided this significant change in cost of service should be considered for cost-of-service recognition in the current case. True-up audits involve the filing of additional testimony and, if necessary, additional hearings beyond the initial testimony filings and hearings for a case. The true-update ordered in this case is December 31, 2016.

Normalization: Utility rates are intended to reflect normal ongoing operations. A normalization adjustment is required when the test year reflects the impact of an abnormal event. For example, overtime expense may be normalized to remove an unusual weather event,
 and revenue may be normalized to remove abnormal weather conditions.

Annualization: Annualization adjustments are the most common adjustment made to test year results to reflect the utility's most current annual level of revenue and expenses. Annualization adjustments are required when changes have occurred during the test year and/or update period, which are not fully reflected in the unadjusted test year results. For example, signing a new labor contract would necessitate annualizing the new level of wages to expense. Similarly, an addition of a large industrial customer would necessitate an annualization of billing determinants and revenues.

Disallowances: In examining test year results, Staff makes disallowances to costs that should not be recovered in rates. Examples of these types of costs are certain advertising costs and donations made to charitable organizations.

Return on Equity: The ROE is the return allowed in rates on the shareholders' equity investment in a regulated utility.

Rate of Return: The ROR is the overall cost capital; that is, the cost of debt and the Commission-selected ROE weighted by the capital structure.

17 Short forms used in the Staff's Revenue Requirement Report and Class Cost-of-Service18 Report include:

19	"the Commission" for the Missouri Public Service Commission;
20	"Staff" for the Staff of the Missouri Public Service Commission;
21	"KCPL" for Kansas City Power & Light Company;
22	"GMO" for KCP&L Greater Missouri Operations Company;
23	"Public Counsel" for the Office of the Public Counsel;
24 25	"EMS" for Staff's revenue requirement model referred to as Exhibit Modeling System;
26	"ROE" for Return on Equity;
27	"ROR" for Rate of Return;
28	"SPP" for Southwest Power Pool;
29	"RTO" for Regional Transmission Organization
30	Staff Expert/Witness: Tammy Huber

III. Economic Considerations

The indicators of Missouri's general economic condition, specifically of the Missouri counties² that compose the service area of KCPL, indicate that moderate growth continues. Figure 1 below shows that the real gross domestic product ("GDP") growth of Missouri has averaged less than one percent (1%) per year from 2010 to 2015. Preliminary 2015 data had shown a robust year-over-year growth rate at 2.80 percent, but subsequent revisions lowered the growth to only 1.29 percent.



Despite a low GDP growth rate, Figure 2 shows that the annual unemployment rate levels for Missouri, including the preliminary 2016 levels, are below the pre-recession levels, but the unemployment rate for the U.S. rate has yet to reach the pre-recession lows. ³ The combined unemployment rate for all of the Missouri counties that KCPL serves tends to be 0.2 to 0.3 percent above Missouri's overall unemployment rate.⁴

² According to Appendix 3 of KCPL's application, which includes the minimum filing requirements, and KCPL's current tariff, KCPL serves a total of 13 counties.

³ According to the National Bureau of Economic Research, the recession began in December 2007 and ended in June 2009.

⁴ The county level unemployment data is unavailable for 2016.



Some economists have expressed concern that the unemployment rate statistic has not accurately reflected a lower labor-force participation rate. Figure 3 shows the number of employed persons in KCPL's Missouri service area is near the pre-recession peak. While not correcting for population growth, Figures 2 and 3 together show that the employment situation in Missouri continues to improve.



1 In addition to examining the status of the current economy, economic forecasters also examine 2 economic data that have a history of leading, lagging, or coinciding with changes in the broader 3 economy to anticipate future economic conditions. The current economic outlook from a variety 4 of economic forecasters has been cautious. For instance, the American Institute for Economic Research's ("AJER")⁵ most recent version of Business Cycle Conditions (November 2016) 5 shows that 58 percent of the leading indicators are evaluated as expanding.⁶ Under AIER's 6 7 method, consistent evaluations above 50 percent suggest a low probability of recession over the 8 next six to 12 months. This was the second month that was evaluated above 50 percent after six 9 months in a row where the evaluation was at or below 50 percent. AIER states, "[W]e do not believe there is enough evidence to suggest the economy is on a significantly different path. 10 Consequently, we still believe the results over the past nine months are consistent with overall 11 slow growth and continued economic expansion."7 12

13 Figure 4, below, provides a comparison of the increase in average weekly wages for the counties in the Missouri KCPL service area, Consumer Price Index ("CPI"), Producer Price 14 Index ("PPI"),⁸ and KCPL's electric rates. From 2007 to 2015, the Missouri counties in the 15 KCPL service area collectively experienced a 17.62% increase in average weekly wages. This 16 17 was slightly lower than the overall Missouri compounded increase in average weekly wages of 18 18,03% and about 3% above the CPI increase. During that same time period, KCPL filed six rate 19 cases⁹ which increased overall electric rates for customers served by KCPL by approximately \$283.1 million, or a cumulative total of 57.69%, as shown in Table 1. However, KCPL has also 20 experienced inflationary pressure, illustrated by a 10.31% increase in the PPI for Industrial 21

historically correlated with future economic growth.

⁷ American Institute for Economic Research. (09NOV16). "Business Conditions Monthly."

⁵ American Institute for Economic Research, (09NOV16). "Business Conditions Monthly."

https://www.aier.org/sites/default/files/Documents/Research/pdf/BCM_November2016.pdf (15NOV16).

⁶ AIER uses 24 indicators in total – 12 leading indicators are a measurable economic factor that tend to change ahead of a turning point in the broader economy, six coincident indicators that tend to change at roughly the same time as a change in the broader economy, and six lagging indicators that tend to change after a turning point in the broader economy. AIER recently revised its list of indicators, details of which can be found at <u>https://www.aier.org/revising</u>. A leading indicator evaluated as expanding means that the change in that indicator is

https://www.aier.org/sites/default/files/Documents/Research/pdf/BCM November2016.pdf (15NOV16). ⁸ The PPI represents the Producer Price Index for Industrial Commodities which includes textile products and apparel, hides, skins, leather and related products, fuels and related products and power, chemicals and allied products, rubber and plastic products, lumber and wood products, pulp, paper and allied products, metals and metal products, machinery and equipment, furniture and household durables, nonmetallic mineral products and transportation equipment.

⁹ Case Nos. ER-2006-0314, ER-2007-0291, ER-2009-0089, ER-2010-0355, ER-2012-0174, and ER-2014-0370.

Commodities from 2007 to 2015.¹⁰ KCPL is currently requesting an additional \$90.1 million—a 10.77% increase in permanent rates.¹¹ From 2007 to 2015, the increase in average weekly wages for Missouri counties in the KCPL service area is about one-fourth of the increase in electric rates for KCPL customers. If KCPL receives its requested 10.77% increase, the increase in average weekly wages would be less than one-fifth of the increase in electric rates, but this does not include any increase in average weekly wages for 2016, which is currently unavailable.



Detailed information on KCPL's expenditures and revenues can be found later in this report.

Since some of the proposed increase in permanent rates is currently collected in the fuel adjustment clause, the apparent proposed increase on customers is approximately \$62.9 million or 7.52%.

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Tabl	e 1: KCPL Rate	Case History 2007	- 2016	
Case	Effective		Percent	
Number	Date	Dollar Value	Increase	
ER-2006-				
0314	1-Jan-07	\$50,616,638	10.46%	
ER-2007-				
0291	1-Jan-08	\$35,308,914	6.50%	
ER-2009-			\$	
0089	1-Sep-09	\$95,000,000	16.16%	
ER-2010-				
0355	4-May-11	\$34,817,199	5.25%	
ER-2012-				
0174	26-Jan-13	\$67,390,893	9.64%	
ER-2014-				
0370	29-Sep-15	\$89,671,644	11.76%	
Total Dollars		\$372,805,288		
Total Compounded				
Increase			76.23%	
ER-2016-				
0285	(Proposed)	\$90,076,613	10.77%	
Total with Pr	oposed	\$462,881,901	95.21%	

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3 Staff Expert/Witness: Michael L. Stahlman

IV. Rate of Return

A. Overview

An essential ingredient of the cost-of-service ratemaking formula is the ROR, which is usually premised on the goal of allowing a utility the opportunity to recover the costs required to secure debt and equity financing. A company's overall ROR consists of three main categories: (1) capital structure (i.e., ratios of short-term debt, long-term debt, preferred stock and common equity); (2) cost rates for short-term debt, long-term debt, and preferred stock; and (3) common equity cost, which in utility ratemaking is often considered synonymous with the ROE even if they aren't in equilibrium.

A ROE is most simply described as the allowed rate of profit for a regulated company.
 In a competitive market, a company's profit level is determined by a variety of factors, including
 the state of the economy, the degree of competition a company faces, the ease of entry into its

Page 9

markets, the existence of substitute or complementary products/services, the company's cost 1 2 structure, the impact of technological changes, and the supply and demand for its services and/or 3 products. For a regulated monopoly, the regulator determines the level of profit potentially available to the utility. The United States Supreme Court established the guiding principles for 4 5 establishing an appropriate level of profitability for regulated public utilities in two cases: (1) Bluefield and (2) Hope.¹² In those cases, the Court recognized that the fair rate of return on 6 equity should be: (1) comparable to returns investors expect to earn on other investments of 7 8 similar risk; (2) sufficient to assure confidence in the company's financial integrity; and 9 (3) adequate to maintain and support the company's credit and to attract capital.

10 Thus, the appropriate allowed ROE for a regulated utility requires estimating the market-11 based cost of capital. The market-based cost of capital for a regulated firm represents the return 12 investors could expect from other investments, while assuming no more and no less risk. The 13 purpose of all of the economic models and formulas in cost of capital testimony (including those 14 presented later in my testimony) is to estimate, using market data of similar-risk firms, the rate of 15 return equity investors require for that risk-class of firms in order to set an appropriate ROE for a 16 regulated firm.

17 This report provides an overall fair ROR or cost of capital recommendation for the regulated electric utility operations of KCPL and evaluates KCPL ROR testimony in this 18 19 proceeding.

This report is organized as follows: (1) a review of Staff's cost of equity estimate for 20 KCPL, (2) an assessment of capital costs in today's capital markets; (3) selection of a proxy group of electric utility companies for estimating the market cost of equity for KCPL; (4) a discussion of the capital structure of KCPL; and (5) an overview of the concept of cost of equity capital and an estimate of the equity cost rate for KCPL.

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В. **Summary of Positions**

KCPL has proposed a capital structure of 50,12% long-term debt and 49.88% common equity based on KCPL's projected capital structure as of December 31, 2016. KCPL recommended a long-term debt cost rate of 5.51%. KCPL witness Mr. Robert B. Hevert has

¹² Federal Power Commission v. Hope Natural Gas Co., 320 U.S. 591 (1944) ("Hope") and Bluefield Water Works and Improvement Co. v. Public Service Commission of West Virginia, 262 U.S. 679 (1923) ("Bluefield").

recommended a ROE of 9.90% for the electric utility operations of KCPL. KCPL's overall proposed ROR is 7.70%.

I have reviewed KCPL's proposed capital structure and embedded costs of capital. From discussions with internal Staff and review of past testimonies and reports in both KCPL and GMO rate cases, it is my understanding that in past rate cases Staff and KCPL had recommended the use of GPE's consolidated capital structure to set rates for both KCPL and GMO. As of June 30, 2016, this capital structure includes 50.41% long-term debt, 0.52% preferred stock, and 49.07% common equity. I have adjusted these amounts since the Company redeemed the preferred stock in August. As a result, I am recommending a capital structure of 50.8% long-term debt and 49.2% common equity. I have also adjusted KCPL's cost of debt because the Company has used a blending of the yield-to-maturity and simple interest/amortization methods. My adjusted cost of debt is 5.42%.

The use of GPE's capital structure and cost of debt as compared to KCPL's, results in a revenue requirement that is about \$1 million lower. Because GPE has managed its utility finances on a consolidated basis and KCPL's cost of debt is higher than its weaker affiliate, GMO, it is fair to continue the use of GPE's consolidated capital structure and capital costs for setting KCPL's rates. However, the primary difference in my recommended rate of return and KCPL's is our common equity cost estimates.

To estimate an equity cost rate for KCPL, I have applied the Discounted Cash Flow Model ("DCF") and the Capital Asset Pricing Model ("CAPM") to my proxy group of electric utilities ("Electric Proxy Group"). I have also used Mr. Hevert's proxy group ("Hevert Proxy Group") for purposes of comparison to my Electric Proxy Group analysis. Mr. Hevert has also employed an alternative risk premium ("RP") approach, which he calls the Bond Yield Plus Risk Premium approach. My recommendation is that the appropriate ROE for KCPL is 8.65%. This figure is at the upper end of my equity cost rate range of 7.9% to 8.75%. Combined with my recommended capitalization ratios and senior capital cost rate, my overall rate of return or cost of capital for KCPL is 7.01% as summarized in Exhibit JRW-1.

My equity cost rate recommendation is consistent with the current economic environment. Despite dire and unfounded predictions of rising interest rates over the past several years, long-term interest rates and capital costs are still at historic lows. As I discuss below, there are strong indicators from my assessment study of global capital markets that long term capital

1 costs will remain low. In estimating a common equity cost rate I have applied the DCF and the CAPM approaches to proxy groups of publicly-held electric utility companies that include the 2 3 same proxy group used by Mr. Hevert.

I review current market conditions and conclude that interest rates and capital costs are at historically low levels and are likely to remain low for some time. On this issue, I show that the economists' forecasts of higher interest rates and capital costs have been consistently wrong for a decade.

8 I have employed the traditional constant-growth DCF model. When developing the DCF 9 growth rate that I have used in my analysis, I have reviewed thirteen growth rate measures 10 including historical and projected growth rate measures and have evaluated growth in dividends, 11 book value, and earnings per share.

12 The CAPM approach requires an estimate of the risk-free interest rate, beta, and the 13 market or risk premium. As I highlight in my testimony, there are three methods for estimating a 14 market or equity risk premium - historical returns, surveys, and expected return models. I have 15 used a market risk premium of 5.5%, which: (1) employs three different approaches to estimating 16 a market premium; and (2) uses the results of many studies of the market risk premium. As I 17 note, my market risk premium reflects the market risk premiums: (1) determined in recent 18 academic studies by leading finance scholars; (2) employed by leading investment banks and management consulting firms; and (3) found in surveys of companies, financial forecasters, financial analysts, and corporate CFOs.

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Capital Costs In Today's Markets

1. Historic Interest Rates and Capital Costs

Long-term capital cost rates for U.S. corporations are a function of the required returns on risk-free securities plus a risk premium. The risk-free rate of interest is the yield on long-term U.S. Treasury bonds. The yields on 10-year U.S. Treasury bonds from 1953 to the present are provided on Panel A of Exhibit JRW-2. These yields peaked in the early 1980s and have generally declined since that time. These yields fell to below 3.0% in 2008 as a result of the financial crisis. In 2012, the yields on 10-year Treasuries declined from 2.5% to 1.5% as the Federal Reserve initiated the third stage of its quantitative easing program ("QEIII") to support a low interest rate environment. These yields increased to 3.0% as of December of 2013 on

speculation of a tapering of the Federal Reserve's QEIII policy. Since that time, the Federal
 Reserve has ended the QEIII program and has increased the federal funds rate. Nonetheless, due
 to slow economic growth and low inflation, the 10-year Treasury yield declined and bottomed
 out at 1.5% range as of mid-2016. They have since increased to 2.25%, with the majority of that
 increase coming in response to the U.S. presidential election.

Panel B on Exhibit JRW-2 shows the differences in yields between 10-year Treasuries and Moody's Baa-rated bonds since the year 2000. This differential primarily reflects the additional risk premium required by bond investors for the risk associated with investing in corporate bonds as opposed to obligations of the U.S. Treasury. The difference also reflects, to some degree, yield curve changes over time. The Baa rating is the lowest of the investment grade bond ratings for corporate bonds. The yield differential hovered in the 2.0% to 3.5% range until 2005, declined to 1.5% until late 2007, and then increased significantly in response to the financial crisis. This differential peaked at 6.0% at the height of the financial crisis in early 2009 due to tightening in credit markets, which increased corporate bond yields, and the "flight to quality," which decreased Treasury yields. The differential subsequently declined and bottomed out at 2.4%. The differential has since increased to the 3.25% range.

The risk premium is the return premium required by investors to purchase riskier securities. The risk premium required by investors to buy corporate bonds is observable based on yield differentials in the markets. The market risk premium is the return premium required to purchase stocks as opposed to bonds. The market or equity risk premium is not readily observable in the markets (like bond risk premiums) since expected stock market returns are not readily observable. As a result, equity risk premiums must be estimated using market data. There are alternative methodologies to estimate the equity risk premium, and these alternative approaches and equity risk premium results are subject to much debate. One way to estimate the equity risk premium is to compare the mean returns on bonds and stocks over long historical periods. Measured in this manner, the equity risk premium has been in the 5% to 7% range.¹³ However, studies by leading academics indicate that the forward-looking equity risk premium is actually in the 4.0% to 6.0% range. These lower equity risk premium results are in line with the findings of equity risk premium surveys of CFOs, academics, analysts, companies, and financial forecasters.

¹³ See Exhibit JRW-11, p. 5-6.

Panel A of Exhibit JRW-3 provides the yields on A-rated public utility bonds. These yields peaked in November 2008 at 7.75% and henceforth declined significantly. These yields declined to below 4.0% in mid-2013, and then increased with interest rates in general to the 4.85% range as of late 2013. These rates dropped significantly during 2014 due to economic growth concerns and bottomed out below 4.0% in the first quarter of 2015. They increased with interest rates in general to 4.4% in the summer of 2015, and have since declined to the 4.0% range due to continued low economic growth and inflation.

8 Panel B of Exhibit JRW-3 provides the yield spreads between long-term A-rated public 9 utility bonds relative to the yields on 20-year U.S. Treasury bonds. These yield spreads 10 increased dramatically in the third quarter of 2008 during the peak of the financial crisis and 11 have decreased significantly since that time. The yield spreads between 20-year U.S. Treasury 12 bonds and A-rated utility bonds peaked at 3.4% in November 2008, declined to about 1.5% in 13 the summer of 2012 as investor return requirements declined. The differential has gradually 14 increased in recent years, and is now close to 2.0%.

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2. Current Capital Market Conditions

a. Forecasts of Higher Interest Rates

17 As discussed above, a company's ROR is theoretically supposed to be approximately 18 equal to its overall cost of capital in the long run. Capital costs, including the cost of debt and 19 equity financing, are established in capital markets and reflect investors' return requirements on 20 alternative investments based on risk and capital market conditions. These capital market 21 conditions are a function of investors' expectations concerning many factors, including economic 22 growth, inflation, government monetary and fiscal policies, and international developments, 23 among others. In the wake of the financial crisis, much of the focus in the capital markets has 24 been on the interaction of economic growth, interest rates, and the actions of the Federal Reserve 25 (the "Fed"). In addition, as illustrated in the United Kingdom's June 24th referendum to leave the European Union ("BREXIT"), capital markets are global and capital costs are impacted by 26 27 global events.

In the last couple of years, with the end of the Fed's QEIII program as well as in anticipation of the Fed's December 16, 2015, decision to raise the Federal Funds rate, there have been forecasts of higher long-term interest rates. However, these forecasts have proven to be

1 wrong. For example, after the announcement of the end of the QEIII program, all the economists 2 in Bloomberg's interest rate survey forecasted interest rates would increase in 2014, and 100% of the economists were wrong. According to the Market Watch article:¹⁴ 3

> The survey of economists' yield projections is generally skewed toward rising rates - only a few times since early 2009 have a majority of respondents to the Bloomberg survey thought rates would fall. But the unanimity of the rising rate forecasts in the spring was a stark reminder of how one-sided market views can become. It also teaches us that economists can be universally wrong.

11 Two other financial publications have produced studies on how economists consistently predict 12 higher interest rates yet they have been wrong. The first publication, entitled "How Interest 13 Rates Keep Making People on Wall Street Look Like Fools," evaluated economists' forecasts for 14 the yield on ten-year Treasury bonds at the beginning of the year for the last ten years.¹⁵ The 15 results demonstrated that economists consistently predict that interest rates will increase, but they 16 never do.

17 The second study tracked economists' forecasts for the yield on ten-year Treasury bonds on an ongoing basis from 2010 until 2015.¹⁶ The results of this study, which was entitled 18 "Interest Rate Forecasters are Shockingly Wrong Almost All of the Time," are shown in Figure 1 19 20 and demonstrate how economists continually forecast that interest rates are going up, and they do 21 not. Indeed, as Bloomberg has reported, economists' continued failure in forecasting increasing 22 interest rates has caused the Federal Reserve Bank of New York to stop using the interest rate estimates of professional forecasters in the Bank's interest rate model due to the unreliability of 23 those forecasters' interest rate forecasts.¹⁷ 24

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¹⁴ Ben Eisen, "Yes, 100% of economists were dead wrong about yields, Market Watch," October 22, 2014. Perhaps reflecting this fact, Bloomberg reported that the Federal Reserve Bank of New York has stopped using the interest rate estimates of professional forecasters in the Bank's interest rate model due to the unreliability of those forecasters' interest rate forecasts. See Susanne Walker and Liz Capo McCormick, "Unstoppable \$100 Trillion Bond Market Renders Models Useless," Bloomberg.com (June 2, 2014). http://www.bloomberg.com/news/2014-06-01/the-unstoppable-100-trillion-bond-market-renders-models-useless html. ¹⁵ Joe Weisenthal, "How Interest Rates Keep Making People on Wall Street Look Like Fools," Bloomberg.com,

March 16, 2015. http://www.bloomberg.com/news/articles/2015-03-16/how-interest-rates-keep-making-people-onwall-street-look-like-fools.

¹⁶ Akin Öyedele, "Interest Rate Forecasters are Shockingly Wrong Almost All of the Time," Business Insider, July 18, 2015. http://www.businessinsider.com/interest-rate-forecasts-are-wrong-most-of-the-time-2015-7.

¹⁷ Market Watch," October 22, 2014.



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Figure 1 Economists' Forecasts of the Ten-Year Treasury Yield 2010-2015



Source: Akin Oyedele, "Interest Rate Forecasters are Shockingly Wrong Almost All of the Time," Business Insider, July 18, 2015. <u>http://www.businessinsider.com/interest-rate-forecasts-are-wrong-most-of-the-time</u>.

b. The Federal Reserve's Decision to Increase the Federal Funds Rate

9 The Federal funds rate is set by the Fed and is the borrowing rate applicable to the most creditworthy financial institutions when they borrow and lend funds overnight to each other.¹⁸ 10 11 On December 16, 2015, the Fed decided to increase the target rate for Federal Funds to 1/4 - 1/2 12 percent. In the release, the Federal Open Market Committee ("FOMC") included the following observations:¹⁹ The increase came after the rate was kept in the 0.0 to 0.25 percent range for over 13 five years in order to spur economic growth in the wake of the financial crisis. The move 14 15 followed by almost two years the end of QEIII program, the Fed's bond-buying program. The Fed has been cautious in its approach to scaling its monetary intervention, and has paid close 16 17 attention to a number of economic variables, including GDP growth, retail sales, consumer confidence, unemployment, the housing market, and inflation. While the Fed has cited 18 improvements in many areas of the economy, it has expressed concern with the low inflation 19 20rate - below the Fed's target of 2.0%.

Nonetheless, it is widely accepted that the Fed will raise the federal funds rate in December of this year. This does not necessarily mean the long-term interest rates are going up. As noted, the federal funds rate is an overnight rate, not a long-term interest rate. In fact, after the Fed increased the federal funds rate last December, long term interest rates declined. The yield on 30-year Treasury bonds was about 3.0% at the time of the decision, declined to below

¹⁸ http://www.investopedia.com/terms/f/federalfundsrate.asp

¹⁹ Board of Governors of the Federal Reserve System, *FOMC Statement* (Dec. 16, 2015).

2.50% in 2016, and has now increased back to the 3.0% range in the wake of the U.S. presidential election.

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c. Interest Rates and Capital Costs in the Long Run

In the long run, the key drivers of economic growth measured in nominal dollars are 4 5 population growth, the advancement and diffusion of science and technology, and currency 6 inflation. Although we experienced rapid economic growth during the "post-war" period (the 7 63 years that separated the end of World War II and the 2008 financial crisis), the post-war 8 period is not necessarily reflective of expected future growth. It was marked by a near-tripling of 9 global population, from under 2.5 billion to approximately 6.7 billion. Over the next 54 years, 10 according to U.N. projections, the global population will grow considerably more slowly, 11 reaching approximately 10.3 billion in 2070. With population growth slowing, life expectancies lengthening, and post-war "baby boomers" reaching retirement age, median ages in developed-12 13 economy nations have risen and continue to rise. The postwar period was also marked by rapid 14 catch-up growth as Europe, Japan, and China recovered from successive devastations and as 15 regions such as India and China deployed and leapfrogged technologies that had been developed 16 over a much longer period in earlier-industrialized nations. That period of rapid catch-up growth 17 is coming to an end. For example, although China remains one of the world's fastest-growing regions, its growth is now widely expected to slow substantially. This convergence of projected 18 19 growth in the former "second world" and "third world" towards the slower growth of the nations that have long been considered "first world" is illustrated in this "key findings" chart published 20 by the Organization for Economic Co-operation and Development:²⁰ 21

continued on next page

²⁰ See <u>http://www.oecd.org/eco/outlook/lookingto2060.htm</u>.



As to dollar inflation, it has declined to far below the level it reached in the 1970s. The Fed targets a 2% inflation rate, but inflation has been below this figure. Indeed, inflation has been below the Fed's target rate for over three years due to a number of factors, including slow global economic growth, slack in the economy, and declining energy and commodity prices. The slow pace of inflation is also reflected in the decline in forecasts of future inflation. The Energy Information Administration's annual Energy Outlook includes in its nominal GDP growth projection a long-term inflation component, which the EIA projects at only 2.1% per year for its forecast period through 2040.²¹

All of this translates into slowed growth in annual economic production and income, even when measured in nominal rather than real dollars. Meanwhile, the stored wealth that is available to fund investments has continued to rise. According to the most recent release of the Credit Suisse global wealth report, global wealth has more than doubled since the turn of this century, notwithstanding the temporary setback following the 2008 financial crisis:

²¹ See EIA Annual Energy Outlook 2016, Table 20 (available at <u>http://www.eia.gov/forecasts/aeo/tables_ref.cfm</u>).



These long-term trends mean that overall, and relative to what had been the post-war norm, the world now has more wealth chasing fewer opportunities for investment rewards. Ben Bernanke, the former Chairman of the Federal Reserve, called this phenomenon a "global savings glut."²² Like any other liquid market, capital markets are subject to the law of supply and demand. With a large supply of capital available for investment and relatively scarce demand for investment capital, it should be no surprise to see the cost of investment capital decline and therefore interest rates should remain low.

Former the Fed Chairman Ben Bernanke addressed the issue of the continuing low interest rates in his weekly Brookings Blog. Bernanke indicated that the focus should be on real and not nominal interest rates and noted that, in the long term, these rates are not determined by the Fed:²³

If you asked the person in the street, "Why are interest rates so low?," he or she would likely answer that the Fed is keeping them low. That's true only in a very narrow sense. The Fed does, of course, set the benchmark nominal short-term interest rate. The Fed's policies are also the primary determinant of inflation and inflation expectations over the longer term, and inflation trends affect interest rates, as the figure above shows. But what matters most for the economy is the real, or inflation-adjusted, interest rate (the market, or nominal, interest rate minus the inflation rate). The

²³ Ben S. Bernanke, "Why Are Interest Rates So Low," Weekly Blog, Brookings, March 30, 2015. http://www.brookings.edu/blogs/ben-bernanke/posts/2015/03/30-why-interest-rates-so-low.

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²² Ben S. Bernanke, *The Global Saving Glut and the U.S. Current Account Deficit* (Mar. 10, 2005), available at http://www.federalreserve.gov/boarddocs/speeches/2005/200503102/.



1 First, the economy has been growing for over five years, and, as noted above, the Fed 2 sees continuing strength in the economy. The labor market has improved, with unemployment now 5.0%,²⁵ 3

4 Second, interest rates remain at historically low levels and are likely to remain low. 5 There are two factors driving the continued lower interest rates: (1) inflationary expectations in 6 the U.S. remain low and remain below the FOMC's target of 2.0%; and (2) global economic 7 growth - including Europe where growth is stagnant and China where growth is slowing 8 significantly. As a result, while the yields on long-term U.S. Treasury bonds are low by 9 historical standards, these yields are well above the government bond yields in Germany, Japan, and the United Kingdom. Thus, U.S. Treasuries offer an attractive yield relative to those of other major governments around the world, thereby attracting capital to the U.S. and keeping U.S. interest rates down.

13 Given these observations, I suggest that the Commission set an equity cost rate based on 14 current market cost rate indicators and not speculate on the future direction of interest rates. As 15 the above studies indicate, economists are always predicting that interest rates are going up, and yet they are almost always wrong. Obviously, investors are well aware of the consistently wrong forecasts of higher interest rates, and therefore place little weight on such forecasts. Investors would not be buying long-term Treasury bonds or utility stocks at their current yields if they expected interest rates to suddenly increase, thereby producing higher yields and negative returns. For example, consider a utility that pays a dividend of \$2.00 with a stock price of \$50.00. The current dividend yield is 4.0%. If interest rates and required utility yields increase, the price of the utility stock would decline. In the example above, if higher return requirements led the dividend yield to increase from 4.0% to 5.0% in the next year, the stock price would have to decline to \$40, which would be a -20% return on the stock.²⁶ Obviously, investors would not buy the utility stock with an expected return of -20% due to higher dividend yield requirements.

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In sum, forecasting prices and rates that are determined in the financial markets, such as interest rates, the stock market, and gold prices, appears to be impossible to accurately do. For interest rates, I have never seen a study that suggests one forecasting service is consistently better than others or that interest rate forecasts are consistently better than just assuming that the

²⁵ See <u>http://data.bls.gov/timeseries/LNS14000000</u>.

²⁶ In this example, for a stock with a \$2.00 dividend, a dividend yield 5.0% dividend yield would require a stock price of \$40 (\$2.00/\$40 = 5.0%).

1 current interest rate will be the rate in the future. As discussed above, investors would not be 2 buying long-term Treasury bonds or utility stocks at their current yields if they expected interest 3 rates to suddenly increase, thereby producing higher yields and negative returns.

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D. **Proxy Group Selection**

To develop a fair rate of return recommendation for the Company, I have evaluated the return requirements of investors on the common stock of a proxy group of publicly-held utility companies. The selection criteria for the Electric Proxy Group include the following:

> At least 50% of revenues from regulated electric operations as 1. reported by AUS Utilities Report;

> 2. Listed as an Electric Utility by Value Line Investment Survey and listed as an Electric Utility or Combination Electric & Gas Utility in AUS Utilities Report;

> An investment grade issuer credit rating by Moody's and Standard 3. & Poor's ("S&P");

> Has paid a cash dividend in the past six months, with no cuts or 4. omissions;

> Not involved in an acquisition of another utility, the target of an 5. acquisition, or in the sale or spin-off of utility assets, in the past six months: and

> Analysts' long-term earnings per share ("EPS") growth rate 6. forecasts available from Yahoo, Reuters, and/or Zacks.

The Electric Proxy Group includes thirty companies. Summary financial statistics for the proxy 22 group are listed in Panel A of page 1 of Exhibit JRW-4,²⁷ The median operating revenues and 23 net plant among members of the Electric Proxy Group are \$6,084.5 million and \$16,741.0 24 25 million, respectively. The group receives 81% of its revenues from regulated electric operations, 26 has BBB+/Baal issuer credit ratings from S&P and Moody's respectively, a current common equity ratio of 47.1%, and an earned return on common equity of 9.1%.

In addition to this group, I have also employed Mr. Hevert's Proxy Group. The Hevert 28 Proxy Group consists of sixteen companies.²⁸ Summary financial statistics for the proxy group 29 30 are listed on Panel B of page 1 of Exhibit JRW-4. The median operating revenues and net plant 31 among members of the Hevert Proxy Group are \$2,694.4 million and \$8,658.2 million, 32 respectively. The group receives 80% of revenues from regulated electric operations, has an

²⁷ In my testimony, I present financial results using both mean and medians as measures of central tendency.

However, due to outliers among means, I have used the median as a measure of central tendency.

²⁸ I have eliminated Great Plains Energy and Westar Energy due to their announced merger.

1 average BBB+ issuer credit rating from S&P and an average Baa1 long-term rating from 2 Moody's, a current common equity ratio of 48.0%, and an earned return on common equity 3 of 9.2%.

I use credit ratings to assess the riskiness of KCPL to the proxy groups. Exhibit JRW-4 also shows S&P and Moody's issuer credit ratings for the companies in the two groups. KCPL's issuer credit ratings are BBB+ according to S&P and Baa1 according to Moody's. These ratings are the same as the average S&P and Moody's issuer credit ratings for the Electric and Hevert Proxy Groups (BBB+ and Baa1). Therefore, I believe that KCPL's investment risk is similar to the investment risk of the Electric and Hevert Proxy Groups.

10 In addition, on page 2 of Exhibit JRW-4, I have assessed the riskiness of the two proxy groups using five different risk measures. These measures include Beta, Financial Strength, 12 Safety, Earnings Predictability, and Stock Price Stability. These risk measures suggest that the two proxy groups are similar in risk. The comparisons of the risk measures include Beta (0.70 vs. 0.72), Financial Strength (A vs. A) Safety (2.0 vs. 2.0), Earnings Predictability (78 vs. 82), and Stock Price Stability (96 vs. 96). On balance, these measures suggest that the two proxy groups are similar.

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E. **Capital Structure Ratios and Debt Cost Rates**

The Company has proposed to use KCPL's capital structure which consists of 50.12% long-term debt and 49.88% common equity based on KCPL's projected capital structure as of December 31, 2016. KCPL recommended a long-term debt cost rate of 5.51%.

As I indicated earlier, I understand that it has been Staff's position to continue the use of GPE's capital structure and debt costs to set KCPL's rates. I understand Staff's past observations about GPE's financing decisions being performed on a consolidated basis. Additionally, I understand that S&P still rates KCPL's and GMO's debt based on GPE's consolidated financial risk profile. As of June 30, 2016, this capital structure includes 50.41% long-term debt, 0.52% preferred stock, and 49.07% common equity. I have adjusted these amounts since the Company redeemed the preferred stock in August. I have allocated the preferred stock amounts equally to long-term debt and common equity. As a result, I am recommending a capital structure of 50.8% long-term debt and 49.2% common equity.

30 The use of GPE's capital structure and cost of debt as compared to KCPL's, results in a revenue requirement that is about \$1 million lower. Because GPE has managed its utility 31

finances on a consolidated basis and KCPL's cost of debt is higher than its weaker affiliate, GMO, it is fair to continue the use of GPE's consolidated capital structure and capital costs for setting KCPL's rates. However, the primary difference in my recommended rate of return and the Company's is our common equity cost estimates.

As shown in Exhibit JRW-4, the median common equity ratios of the Electric and Hevert Proxy Groups are 47.1% and 48.0%, respectively. GPE's capitalization has slightly more equity and less financial risk than the average current capitalizations of electric utility companies. It should be noted that these capitalization ratios for the proxy groups include total debt which consists of both short-term and long-term debt. In assessing financial risk, short-term debt is included because, just like long-term debt, short-term has a higher claim on the assets and earnings of the company and requires timely payment of interest and repayment of principal.

GPE's and KCPL's cost of debt of 5.51% is upwardly biased due to their blending of the yield-to-maturity and simple interest/amortization methods. They should use one or the other, but blending them causes a double counting of issuance expenses, discounts and premiums. After correcting this error, GPE's cost of debt is 5.42% as of June 30, 2016.

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F. The Cost of Common Equity Capital

1. Overview

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

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

1	Normative economic models of a c
2	assumptions, provide insight into the relati
3	capital costs, and the value of the firm.
4	competition, where entry and exit are cost
5	increasing marginal costs of production, fi
6	marginal cost. Over time, a long-run equilib
7	including the firm's capital costs. In equilit
8	capital costs represent investors' required
9	required returns, and the market value must e
10	In the real world, firms can achiev
11	imperfections. Most notably, companies
12	differentiation (adding real or perceived valu
13	(decreasing marginal costs of production). Co
14	above average cost and thereby earn accou
15	capital costs. When these profits are in exces
16	a return on equity in excess of its cost of equi
17	excess of its book value.
18	1. The Relationship Between Re
19	Book Ratios
20 21 22	James M. McTaggart, founder Marakon Associates, described this e the cost of equity, and the market-to-b
23 24 25 26 27 28 29 30 31 32 33	Fundamentally, the value of a flow it generates over time acceptable rate of return requi of equity capital" is used to dis converting it to a present v produced by the interaction of the annual rate of equity grov companies in low-growth mark generators of cash flow, while markets, such as Texas Instru flow to finance growth.

²⁹ James M. McTaggart, "The Ultimate Poison Pill: Closing the Value Gap," *Commentary* (Spring 1986), page 3.

company or firm, developed under very restrictive ionship between firm performance or profitability,

Under the economist's ideal model of perfect tless, products are undifferentiated, and there are irms produce up to the point where price equals rium is established where price equals average cost, brium, total revenues equal total costs, and because return on the firm's capital, actual returns equal equal the book value of the firm's securities.

ve competitive advantage due to product market can gain competitive advantage through product te to products) and by achieving economies of scale ompetitive advantage allows firms to price products inting profits greater than those required to cover ss of that required by investors, or when a firm earns ity, investors respond by valuing the firm's equity in

turn on Equity, the Cost of Equity, and Market-to-

er of the international management consulting firm essential relationship between the return on equity, book ratio in the following manner:²⁹

company is determined by the cash for its owners, and the minimum ired by capital investors. This "cost scount the expected equity cash flow, alue. The cash flow is, in turn, f a company's return on equity and wth. High return on equity (ROE) kets, such as Kellogg, are prodigious low ROE companies in high-growth ments, barely generate enough cash

1 2 3 4 5 6 7 8	A company's ROE over time determines whether it is worth its ROE is consistently greate investor's minimum accep economically profitable and value. If, however, the busin than its cost of equity, it is market value will be less than
9	As such, the relationship between a fi
10	book ratio is relatively straightforward. A
11	equity will see its common stock sell at a p
12	earns a return on equity below its cost of equ
13	its book value.
14	This relationship is discussed in a cl
15	"Note on Value Drivers." On page 2 of that
16	very succinctly: ³⁰
17 18 19 20 21	For a given industry, more pro higher returns per dollar of eq book ratios. Conversely, fin returns in excess of their cost book value.
22	Profitability
23	If ROE > K
24	If $ROE = K$
25	If ROE < K
26	To assess the relationship by industry, as s
27	between estimated ROE and market-to-book r
28	and water utility companies. I used all comp
29	Value Line and have estimated ROE and mark
30	Panels A-C of Exhibit JRW-6. The average R

³⁰ Benjamin Esty, "Note on Value Drivers," Harvard Business School, Case No. 9-297-082, April 7, 1997.

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

irm's return on equity, cost of equity, and market-tofirm that earns a return on equity above its cost of price above its book value. Conversely, a firm that juity will see its common stock sell at a price below

lassic Harvard Business School case study entitled at case study, the author describes the relationship

ofitable firms – those able to generate juity- should have higher market-torms which are unable to generate t of equity should sell for less than

> Value then Market/Book > 1 then Market/Book =1 then Market/Book < 1

suggested above, I performed a regression study ratios using natural gas distribution, electric utility, panies in these three industries that are covered by ket-to-book ratio data. The results are presented in R-squares for the electric, gas, and water companies

1	are 0.77 , 0.56 , and 0.75 , respectively. ³¹
2	between ROEs and market-to-book ratios for
3	2. Indicators of Public Utility Ca
4	Exhibit JRW-7 provides indicators of
5	Page 1 shows the yields on long-
6	decreased from 2000 until 2003, and then
7	until mid-2008. These yields spiked up to th
8	financial crisis, and remained high and volat
9	4.0% in mid-2013, and then increased with i
10	2013. They subsequently declined to below
11	interest rates in general in 2015, and have no
12	Page 2 provides the dividend yield
13	dividend yields for this electric group have
14	5.2% in 2009, and declined to about 3.75% in
15	Average earned returns on common e
16	are on page 3 of Exhibit JRW-7. For the ele
17	declined gradually since the year 2000 and
18	average market-to-book ratios for this group
19	and have increased since that time. As of 2
20	1.55X. This means that, for at least the last c
21	than the cost of capital, or more than neces
22	means that customers have been paying mo
23	level for regulated utilities.
24	3. The Cost of Common Equity
25	The costs of debt and preferred stock
26	can be determined with a great degree of accu
27	cannot be determined precisely and must in

³¹ R-square measures the percent of variation in one variable (e.g., market-to-book ratios) explained by another variable (e.g., expected ROE). R-squares vary between zero and 1.0, with values closer to 1.0 indicating a higher relationship between two variables.

This demonstrates the strong positive relationship r public utilities.

apital Cost Rates

f public utility equity cost rates over the past decade. -term A-rated public utility bonds. These yields hovered in the 5.50%-6.50% range from mid-2003 ne 7.75% range with the onset of the Great Recession tile until early 2009. These yields declined to below interest rates in general to the 4.85% range as of late w 4.0% in the first quarter of 2015, increased with w dropped back to the 4.0% range.

Is for electric utilities over the past decade. The declined from the year 2000 to 2007, increased to n 2014 and 2015.

equity and market-to-book ratios for electric utilities ectric group, earned returns on common equity have have been in the 9.0% range in recent years. The peaked at 1.68X in 2007, declined to 1.07X in 2009, 2015, the average market-to-book for the group was decade, returns on common equity have been greater ssary to meet investors' required returns. This also ore than necessary to support an appropriate profit

are normally based on historical or book values and uracy. The cost of common equity capital, however, stead be estimated from market data and informed

judgment. This return requirement of the stockholder should be commensurate with the return requirement on investments in other enterprises having comparable risks. 2 3 According to valuation principles, the present value of an asset equals the discounted value of its expected future cash flows. Investors discount these expected cash flows at their 4 required rate of return that, as noted above, reflects the time value of money and the perceived 5 riskiness of the expected future cash flows. As such, the cost of common equity is the rate at 6 7 which investors discount expected cash flows associated with common stock ownership. 8 Models have been developed to ascertain the cost of common equity capital for a firm. 9 Each model, however, has been developed using restrictive economic assumptions. 10 Consequently, judgment is required in selecting appropriate financial valuation models to estimate a firm's cost of common equity capital, in determining the data inputs for these models, 11 and in interpreting the models' results. All of these decisions must take into consideration the 12 firm involved as well as current conditions in the economy and the financial markets. 13 The expected or required rate of return on common stock is a function of market-wide as 14 well as company-specific factors. The most important market factor is the time value of money 15 as indicated by the level of interest rates in the economy. Common stock investor requirements 16 generally increase and decrease with like changes in interest rates. The perceived risk of a firm 17 is the predominant factor that influences investor return requirements on a company-specific 18 basis. A firm's investment risk is often separated into business and financial risk. Business risk 19 encompasses all factors that affect a firm's operating revenues and expenses. Financial risk 20 21 results from incurring fixed obligations in the form of debt in financing its assets. 22 Due to the essential nature of their service as well as their regulated status, public utilities are exposed to a lesser degree of business risk than other, non-regulated businesses. The 23 relatively low level of business risk allows public utilities to meet much of their capital 24 requirements through borrowing in the financial markets, thereby incurring greater than average 25 financial risk. Nonetheless, the overall investment risk of public utilities is below most other 26 27 industries. 28 Exhibit JRW-8 provides an assessment of investment risk for 97 industries as measured 29 by beta, which according to modern capital market theory, is the only relevant measure of

30 investment risk. These betas come from the Value Line Investment Survey. The study shows that 31 the investment risk of utilities is very low. The average betas for electric, water, and gas utility

1	companies are 0.72, 0.74, and 0.71, respectiv
2	among the lowest of all industries in the U.S.
3	2. DCF Analysis
4	
5	I rely primarily on the DCF model to
6	investment valuation process and the relative s
7	DCF model provides the best measure of equ
8	performed a CAPM study; however, I give the
9	premium studies, of which the CAPM is one f
10	cost rates for public utilities.
11	According to the DCF model, the current
12	all future dividends that investors expect to re-
13	stockholders' returns ultimately result from curr
14	corporation, common stockholders are entitled
15	DCF model presumes that earnings that are not
16	in the firm so as to provide for future growth
17	investors discount future dividends, which reflect
18	flows, is interpreted as the market's expected or
19	this discount rate represents the cost of common
20	expressed as:
21	D ₁
22	$P = + (1+k)^{1}$
25	(r · K)
24 25	where P is the current stock price, k is the cost of common equity
25	
26	Virtually all investment firms use some form of
27	common application for investment firms is ca
28	af 2. This model programs that a companying
29	or 2, this mover presences that a company s
50	growin stage, then proceeds through a transition

vely. As such, the cost of equity for utilities is

Overview

estimate the cost of equity capital. Given the stability of the utility business, I believe that the uity cost rates for public utilities. I have also ese results less weight because I believe that risk form, provide a less reliable indication of equity

nt stock price is equal to the discounted value of receive from investment in the firm. As such, rent as well as future dividends. As owners of a to a pro rata share of the firm's earnings. The paid out in the form of dividends are reinvested in earnings and dividends. The rate at which ects the timing and riskiness of the expected cash required return on the common stock. Therefore, on equity. Algebraically, the DCF model can be

$$\begin{array}{cccc} D_2 & & D_n \\ \hline \\ \hline \\ (1+k)^2 & & (1+k)^n \end{array}$$

, D_n is the dividend in year n, and

the DCF model as a valuation technique. One alled the three-stage DCF or dividend discount CF model are presented in Exhibit JRW-9, Page 1 dividend payout progresses initially through a stage, and finally assumes a maturity (or steady-

1	state) stage. The dividend-payment stage of a
2	investments which, in turn, is largely a function
3 4 5 6 7	1. Growth stage: Character high profit margins, and an abnor share. Because of highly opportunities, the payout ratio is the unusually high earnings, leading
8 9 10 11	2. Transition stage: In lar reduces profit margins and earn new investment opportunities, the larger percentage of earnings.
12 13 14 15 16 17	3. Maturity (steady-state) streaches a position where its new i average, only slightly attractive I growth rate, payout ratio, and RC its life. The constant-growth DCF is in the maturity stage of the life c
18	In using this model to estimate a firm's cost of
19	future using the different growth rates in the alter
20	discount rate that equates the present value of the
21	The Constar
22	Under certain assumptions, including a
23	constant dividend/earnings and price/earnings rates
24	following:
25 26 27	$P = \frac{D_1}{k - g}$
28 29 30 31	where D_1 represents the expected divi expected growth rate of dividends. The of the DCF model. To use the constant cost of equity, one solves fork in the abo
32 33 34	$k = \frac{D_1}{P}$
35	In my opinion, the economics of the public util
36	steady-state or constant-growth stage of a three-s

of a firm depends on the profitability of its internal tion of the life cycle of the product or service.

acterized by rapidly expanding sales, bnormally high growth in earnings per ly profitable expected investment is low. Competitors are attracted by leading to a decline in the growth rate.

later years, increased competition earnings growth slows. With fewer s, the company begins to pay out a

e) stage: Eventually, the company ew investment opportunities offer, on ive ROEs. At that time, its earnings ROE stabilize for the remainder of DCF model is appropriate when a firm fe cycle.

of equity capital, dividends are projected into the

alternative stages, and then the equity cost rate is the

the future dividends to the current stock price.

stant Growth DCF Model

a constant and infinite expected growth rate, and gs ratios, the DCF model can be simplified to the

dividend over the coming year and g is the This is known as the constant-growth version stant-growth DCF model to estimate a firm's above expression to obtain the following:

+ g

utility business indicate that the industry is in the ee-stage DCF. The economics include the relative

.

Page 30
stability of the utility business, the maturity of the demand for public utility services, and the regulated status of public utilities (especially the fact that their returns on investment are 2 effectively set through the ratemaking process). The DCF valuation procedure for companies in this stage is the constant-growth DCF. In the constant-growth version of the DCF model, the current dividend payment and stock price are directly observable. However, the primary problem and controversy in applying the DCF model to estimate equity cost rates entails estimating investors' expected dividend growth rate. One should be sensitive to several factors when using the DCF model to estimate a firm's cost of equity capital. In general, one must recognize the assumptions under which the DCF model was developed in estimating its components (the dividend yield and the expected growth rate). The dividend yield can be measured precisely at any point in time; however, it tends to vary somewhat over time. Estimation of expected growth is considerably more difficult. One must consider recent firm performance, in conjunction with current economic developments and other information available to investors, to accurately estimate investors' expectations. **Dividend Yield** I have calculated the dividend yields for the companies in the proxy group using the current annual dividend and the 30-day, 90-day, and 180-day average stock prices. These dividend yields are provided in Panel A of page 2 of Exhibit JRW-10. For the Electric Proxy

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16 Group, the median dividend yields using the 30-day, 90-day, and 180-day average stock prices range from 3.3% to 3.4%. I am using the average of the medians - 3.35% - as the dividend yield for the Electric Proxy Group. The dividend yields for the Hevert Proxy Group are shown in Panel B of page 2 of Exhibit JRW-10. The median dividend yields range from 3.3% to 3.4% using the 30-day, 90-day, and 180-day average stock prices. I am using the average of the medians - 3.35% - as the dividend yield for the Hevert Proxy Group.

According to the traditional DCF model, the dividend yield term relates to the dividend 25 vield over the coming period. As indicated by Professor Myron Gordon, who is commonly 26 associated with the development of the DCF model for popular use, this is obtained by: 27 (1) multiplying the expected dividend over the coming quarter by 4, and (2) dividing this 28

1	dividend by the current stock price to deter
2	pays dividends on a quarterly basis. ³²
3	In applying the DCF model, some a
4	the coming year as opposed to the coming q
5	to announce changes in dividends at differen
6	computed based on presumed growth over th
7	be quite different. Consequently, it is comm
8	fraction of the long-term expected growth rate
9	Given this discussion, I adjust the div
10	so as to reflect growth over the coming year.
11	K = [(D/P)
12	The
13	There is debate as to the proper n
14	component of the DCF model. By definition
15	the long-term dividend growth rate. Presum
16	and/or projected growth rates for earnings and
17	growth to assess long-term potential.
18	I have analyzed a number of measur
19	I reviewed Value Line's historical and proje
20	("EPS"), dividends per share ("DPS"), and
21	I utilized the average EPS growth rate foreca
22	Reuters and Zacks. These services solicit
23	securities analysts and compile and publish t
24	I also assessed prospective growth as meas
25	earned returns on common equity.
26	Historical growth rates for EPS, DPS,
27	presumably an important ingredient in fo

Direct Testimony of Myron J, Gordon and Lawrence I. Gould, at 62 (April 1980).

rmine the appropriate dividend yield for a firm that

inalysts adjust the current dividend for growth over uarter. This can be complicated because firms tend it times during the year. As such, the dividend yield e coming quarter as opposed to the coming year can on for analysts to adjust the dividend yield by some te.

idend yield by one-half (1/2) of the expected growth The DCF equity cost rate ("K") is computed as:

) * (1 + 0.5g)] + g

e DCF Growth Rate

nethodology to employ in estimating the growth n, this component reflects investors' expectation of ably, investors use some combination of historical d dividends per share and for internal or book-value

res of growth for companies in the proxy groups. ected growth rate estimates for earnings per share d book value per share ("BVPS"). In addition, asts of Wall Street analysts as provided by Yahoo, five-year earnings growth rate projections from he means and medians of these forecasts. Finally, sured by prospective earnings retention rates and

and BVPS are readily available to investors and are orming expectations concerning future growth.

³² Petition for Modification of Prescribed Rate of Return, Federal Communications Commission, Docket No. 79-05,

However, one must use historical growth numbers as measures of investors' expectations with caution. In some cases, past growth may not reflect future growth potential. Also, employing a 2 3 single growth rate number (for example, for five or ten years) is unlikely to accurately measure investors' expectations, due to the sensitivity of a single growth rate figure to fluctuations in 4 5 individual firm performance as well as overall economic fluctuations (i.e., business cycles). However, one must appraise the context in which the growth rate is being employed. According 6 to the conventional DCF model, the expected return on a security is equal to the sum of the 7 8 dividend yield and the expected long-term growth in dividends. Therefore, to best estimate the cost of common equity capital using the conventional DCF model, one must look to long-term 9 10 growth rate expectations. 11 Internally generated growth is a function of the percentage of earnings retained within the 12 firm (the earnings retention rate) and the rate of return earned on those earnings (the return on 13 equity). The internal growth rate is computed as the retention rate times the return on equity. Internal growth is significant in determining long-run earnings and, therefore, dividends. 14 15 Investors recognize the importance of internally generated growth and pay premiums for stocks of companies that retain earnings and earn high returns on internal investments. 16 17 Analysts' EPS forecasts for companies are collected and published by a number of different investment information services, including Institutional Brokers Estimate System 18 ("I/B/E/S"), Bloomberg, FactSet, Zacks, First Call, and Reuters, among others. Thompson 19 Reuters publishes analysts' EPS forecasts under different product names, including I/B/E/S, First 20 21 Call, and Reuters. Bloomberg, FactSet, and Zacks publish their own set of analysts' EPS forecasts for companies. These services do not reveal: (1) the analysts who are solicited for 22 forecasts; or (2) the identity of the analysts who actually provide the EPS forecasts that are used 23 in the compilations published by the services. I/B/E/S, Bloomberg, FactSet, and First Call are 24 fee-based services. These services usually provide detailed reports and other data in addition to 25 analysts' EPS forecasts. Thompson Reuters and Zacks do provide limited EPS forecast data 26 free-of-charge on the internet. Yahoo finance (http://finance.yahoo.com) lists Thompson Reuters 27 as the source of its summary EPS forecasts. The Reuters website (www.reuters.com) also 28 publishes EPS forecasts from Thompson Reuters, but with more detail. Zacks (www.zacks.com) 29 publishes its summary forecasts on its website. Zacks estimates are also available on other 30 31

websites, such as msn.money (http://money.msn.com).

1 The following example provides the EPS forecasts compiled by Reuters for Alliant Energy Corp. (stock symbol "LNT"). The figures are provided on page 2 of Exhibit JRW-9. 2 Line one shows that one analyst has provided EPS estimates for the quarter ending December 31, 3 2016. The mean, high and low estimates are \$0.18, \$0.20, and \$0.16, respectively. The second -5 line shows the quarterly EPS estimates for the quarter ending March 31, 2017 of \$0.45 (mean), \$0.45 (high), and \$0.45 (low). Line three shows the annual EPS estimates for the fiscal year 6 7 ending December 2016 (\$2.10 (mean), \$2.28 (high), and \$1.88 (low). Line four shows the annual 8 EPS estimates for the fiscal year ending December 2017 (\$2.22 (mean), \$2.32 (high), and \$1.97 (low). The quarterly and annual EPS forecasts in lines 1-4 are expressed in dollars and cents. As 9 10 in the LNT case shown here, it is common for more analysts to provide estimates of annual EPS as opposed to quarterly EPS. The bottom line shows the projected long-term EPS growth rate, 11 12 which is expressed as a percentage. For LNT, three analysts have provided a long-term EPS 13 growth rate forecast, with mean, high, and low growth rates of 6.60%, 7.20%, and 6.00%. The DCF growth rate is the long-term projected growth rate in EPS, DPS, and BVPS. 14 15 Therefore, in developing an equity cost rate using the DCF model, the projected long-term 16 growth rate is the projection used in the DCF model. However, there are several issues with 17 using the EPS growth rate forecasts of Wall Street analysts as DCF growth rates. First, the appropriate growth rate in the DCF model is the dividend growth rate, not the earnings growth 18 19 rate. Nonetheless, over the very long term, dividend and earnings will have to grow at a similar growth rate. Therefore, consideration must be given to other indicators of growth, including 20 21 prospective dividend growth, internal growth, as well as projected earnings growth. Second, a recent study by Lacina, Lee, and Xu (2011) has shown that analysts' long-term earnings growth 22 23 rate forecasts are not more accurate at forecasting future earnings than naïve random walk forecasts of future earnings.³³ Employing data over a twenty-year period, these authors 24 demonstrate that using the most recent year's EPS figure to forecast EPS in the next 3-5 years 25 26 proved to be just as accurate as using the EPS estimates from analysts' long-term earnings 27 growth rate forecasts. In the authors' opinion, these results indicate that analysts' long-term 28 earnings growth rate forecasts should be used with caution as inputs for valuation and cost of 29 capital purposes. Finally, and most significantly, it is well known that the long-term EPS growth

³³ M. Lacina, B. Lee & Z. Xu, Advances in Business and Management Forecasting (Vol. 8), Kenneth D. Lawrence, Ronald K. Klimberg (ed.), Emerald Group Publishing Limited, pp.77-101.

rate forecasts of Wall Street securities analysts are overly optimistic and upwardly biased. This 2 has been demonstrated in a number of academic studies over the years.³⁴ Hence, using these growth rates as a DCF growth rate will provide an overstated equity cost rate. On this issue, a 3 study by Easton and Sommers (2007) found that optimism in analysts' growth rate forecasts 5 leads to an upward bias in estimates of the cost of equity capital of almost 3.0 percentage points.35 6

7 Page 3 of Exhibit JRW-10 provides the 5- and 10-year historical growth rates for EPS, 8 DPS, and BVPS for the companies in the two proxy groups, as published in the Value Line 9 Investment Survey. The median historical growth measures for EPS, DPS, and BVPS for the 10 Electric Proxy Group, as provided in Panel A, range from 3.5% to 5.5%, with an average of the 11 medians of 4.2%. For the Hevert Proxy Group, as shown in Panel B of page 3 of Exhibit 12 JRW-10, the historical growth measures in EPS, DPS, and BVPS, as measured by the medians, 13 range from 3.3% to 6.5%, with an average of the medians of 4.5%.

Value Line's projections of EPS, DPS, and BVPS growth for the companies in the proxy 14 15 groups are shown on page 4 of Exhibit JRW-10. As stated above, due to the presence of outliers, the medians are used in the analysis. For the Electric Proxy Group, as shown in Panel A of page 16 4 of Exhibit JRW-10, the medians range from 4.0% to 5.5%, with an average of the medians of 17 18 4.9%. The range of the medians for the Hevert Proxy Group, shown in Panel B of page 4 of 19 Exhibit JRW-10, is from 4.0 % to 5.5 %, with an average of the medians of 4.9%.

20 Also provided on page 4 of Exhibit JRW-10 are the prospective sustainable growth rates 21 for the companies in the two proxy groups as measured by Value Line's average projected 22 retention rate and return on shareholders' equity. As noted above, sustainable growth is a 23 significant and a primary driver of long-run earnings growth. For the Electric and Hevert Proxy 24 Groups, the median prospective sustainable growth rates are 3.8% and 3.6%, respectively.

4

"The Relation Between Analysts' Forecasts of Long-Term Earnings Growth and Stock Price Performance Following Equity Offerings," Contemporary Accounting Research (2000); K. Chan, L., Karceski, J., & Lakonishok, J., "The Level and Persistence of Growth Rates," Journal of Finance pp. 643-684, (2003); M. Lacina, B. Lee and Z. Xu, Emerald Group Publishing Limited, pp.77-101; and Marc H. Goedhart, Rishi Raj, and Abhishek Saxena, "Equity

³⁴ The studies that demonstrate analysts' long-term EPS forecasts are overly-optimistic and upwardly biased include: R.D. Harris, "The Accuracy, Bias, and Efficiency of Analysts' Long Run Earnings Growth Forecasts," Journal of Business Finance & Accounting, pp. 725-55 (June/July 1999); P. DeChow, A. Hutton, and R. Sloan, Advances in Business and Management Forecasting (Vol. 8), Kenneth D. Lawrence, Ronald K. Klimberg (ed.), Analysts, Still Too Bullish," McKinsey on Finance, pp. 14-17, (Spring 2010). ³⁵ Peter D. Easton & Gregory A. Sommers, Effect of Analysts' Optimism on Estimates of the Expected Rate of Return Implied by Earnings Forecasts, 45 J. ACCT, RES. 983-1015 (2007).

As noted above, Yahoo, Zacks, and Reuters collect, summarize, and publish Wall Street analysts' long-term EPS growth rate forecasts for the companies in the proxy groups. These 2 3 forecasts are provided for the companies in the proxy groups on page 5 of Exhibit JRW-10. I have reported both the mean and median growth rates for the groups. Since there is 4 considerable overlap in analyst coverage between the three services, and not all of the companies -5 have forecasts from the different services, I have averaged the expected five-year EPS growth 6 7 rates from the three services for each company to arrive at an expected EPS growth rate for each company. The mean/median of analysts' projected EPS growth rates for the Electric and Hevert 8 Proxy Groups are 4.5%/5.2% and 5.3%/5.5%, respectively.³⁶ 9 10 Page 6 of Exhibit JRW-10 shows the summary DCF growth rate indicators for the proxy groups. The historical growth rate indicators for my Electric Proxy Group imply a baseline 11 12 growth rate of 4.2%. The average of the projected EPS, DPS, and BVPS growth rates from 13 Value Line is 4.8%, and Value Line's projected sustainable growth rate is 3.8%. The projected 14 EPS growth rates of Wall Street analysts for the Electric Proxy Group are 4.5% and 5.2% as 15 measured by the mean and median growth rates. The overall range for the projected growth rate indicators (ignoring historical growth) is 3.8% to 5.2%. Giving primary weight to the projected 16 17 EPS growth rate of Wall Street analysts, I believe that the appropriate projected growth rate is 18 5.0%. This growth rate figure is clearly in the upper end of the range of historic and projected growth rates for the Electric Proxy Group. 19 20 For the Hevert Proxy Group, the historical growth rate indicators indicate a growth rate of 4.5%. The average of the projected EPS, DPS, and BVPS growth rates from Value Line is 21 22 4.9%, and Value Line's projected sustainable growth rate is 3.6%. The projected EPS growth rates of Wall Street analysts are 5.3% and 5.5% as measured by the mean and median growth 23 rates. The overall range for the projected growth rate indicators is 3.6% to 5.5%. Giving primary 24 weight to the projected EPS growth rate of Wall Street analysts, I believe that the appropriate 25 projected growth rate range is 5.30%. This growth rate figure is clearly in the upper end of the 26 range of historic and projected growth rates for the Hevert Proxy Group. 27

³⁶ Given variation in the measures of central tendency of analysts' projected EPS growth rates proxy groups, I have considered both the means and medians figures in the growth rate analysis.

1	TY COMMAN	DCF E	quity Cost Rat	e Summary	
2	My DCF-derived equity cost rates for the groups are summarized on page 1 of E:				
3	JRW-10 and in Table 1 below.				
4 5	Table 1 DCF-derived Equity Cost Rate/ROE				
		Dividend Yield	1 + ½ Growth Adjustment	DCF Growth Rate	Equity Cost Rate
	Electric Proxy Group	3.35%	1.02500	5.00%	8.45%
6	Hevert Proxy Group	3.35%	1.02650	5.30%	8.75%
6 7	The result for the Elect	ric Proxy G	oup is the 3.35	% dividend yield	l, times the one
8	one-half growth adjustment of	1.025, plus	the DCF grow	th rate of 5.0%,	which results i
9	equity cost rate of 8.45%. Th	e result for	the Hevert Prox	y Group is 8.75	% which includ
10	dividend yield of 3.35%, an adju	ustment facto	or of 1.0265, and	a DCF growth r	rate of 5.30%.
11	3. Capital Asse	et Pricing M	odel		
12			Overview		
13	The CAPM is a risk p	premium app	proach to gaug	ing a firm's cos	t of equity cap
14	According to the risk premium	approach, th	ne cost of equity	y is the sum of t	he interest rate
15	risk-free bond (R _f) and a risk pro	emium (RP),	as in the follow	ing:	
16	k	_	$R_f + 3$	RP	
17 18 19 20 21 22 23	The yield on long Rf. Risk premiur theory of the risk CAPM, two type risk or unsystem measured by a fi return for bearing	g-term U.S. T ns are measu and expect s of risk are atic risk, and rm's beta. is systematic	Freasury securiting red in different with red returns of co associated with a market or system The only risk the prisk.	es is normally us ways. The CAPM ommon stocks. 1 a stock: firm-spo tematic risk, whi nat investors rece	ed as <i>I</i> is a n the ecific ch is ive a
24	According to the CAPM, the expected return on a company's stock, which is also the equity				
25	rate (K), is equal to:				
26	K	$= (R_{f}) + \beta *$	$[E(R_m) - (R_f)]$		
27	Where:				
28 29 30	 K represents the E(R_m) represents Frequently, the 'r 	estimated rat s the expense narket' reference	te of return on the cted return on the study of the study	ne stock; the overall s 0;	tock market.

xhibit

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pital. on a

v cost

1 2 3 4 5	 (R_f) represents the risk-free ration [E(R_m) - (R_f)] represents the excess return that an investor investing in risky stocks; and Beta-(B) is a measure of the stocks.
6	To estimate the required return or cost of equ
7	free rate of interest (R_j) , the beta (B) , and the
8	(R_{β})]. R_f is the easiest of the inputs to mea
9	U.S. Treasury bonds. B, the measure of sy
10	because there are different opinions about wh
11	betas due to their tendency to regress to 1.0 c
12	to measure is the expected equity or market
13	these inputs below.
14	Exhibit JRW-11 provides the summa
15	results, and the following pages contain the su
16	The R
17	The yield on long-term U.S. Treasury
18	of interest in the CAPM. The yield on lo
19	considered to be the yield on U.S. Treasury be
20	As shown on page 2 of Exhibit JRW
21	been in the 2.5% to 4.0% range over the 2013
22	currently in the bottom half of this range. Gi
23	higher interest rates, I use 4.0% as the risk-fre
24	My 4.0% risk-free interest rate takes
25	and effectively synchronizes the risk-free rate
26	making an explicit forecast of higher inte
27	interrelated in that the MRP is developed in
28	my MRP is based on the results of many studi
29	Therefore, my risk-free interest rate of 4.0% is
30	
31	Beta (ß) is a measure of the systemati
32	the S&P 500, has a beta of 1.0. The beta of a

te of interest; expected equity or market risk premium-the expects to receive above the risk-free rate for

systematic risk of an asset.

uity using the CAPM requires three inputs: the riske expected equity or market risk premium $[E(R_m)$ asure – it is represented by the yield on long-term stematic risk, is a little more difficult to measure hat adjustments, if any, should be made to historical over time. And finally, an even more difficult input risk premium $(E(R_m) - (R_d))$. I will discuss each of

rry results for my CAPM study. Page 1 shows the upporting data.

Risk-Free Interest Rate

bonds has usually been viewed as the risk-free rate ong-term U.S. Treasury bonds, in turn, has been onds with 30-year maturities.

'-11, the yield on 30-year U.S. Treasury bonds has 3-2016 time period. The 30-year Treasury yield is ven the recent range of yields and the possibility of e rate, or R_f , in my CAPM.

into account the range of interest rates in the past with the market risk premium ("MRP"). I am not erest rates. The risk-free rate and the MRP are relation to the risk-free rate. As discussed below, ies and surveys that have been published over time. effectively a normalized risk-free rate of interest.

Beta

ic risk of a stock. The market, usually taken to be stock with the same price movement as the market

also has a beta of 1.0. A stock whose price movement is greater than that of the market, such as 2 a technology stock, is riskier than the market and has a beta greater than 1.0. A stock with below 3 average price movement, such as that of a regulated public utility, is less risky than the market and has a beta less than 1.0. Estimating a stock's beta involves running a linear regression of a 4 5 stock's return on the market return. 6 As shown on page 3 of Exhibit JRW-11, the slope of the regression line is the stock's β . 7 A steeper line indicates that the stock is more sensitive to the return on the overall market. This 8 means that the stock has a higher ß and greater-than-average market risk. A less steep line 9 indicates a lower B and less market risk. 10 Several online investment information services, such as Yahoo and Reuters, provide 11 estimates of stock betas. Usually these services report different betas for the same stock. 12 The differences are usually due to: (1) the time period over which β is measured; and (2) any 13 adjustments that are made to reflect the fact that betas tend to regress to 1.0 over time. In estimating an equity cost rate for the proxy groups, I am using the betas for the companies as 14 15 provided in the Value Line Investment Survey. As shown on page 3 of Exhibit JRW-11, 16 the median betas for the companies in the Electric and Hevert Proxy Groups are 0.70 and 0.70, 17 respectively. The Market Risk Premium ("MRP") 18 19 The MRP is equal to the expected return on the stock market (e.g., the expected return on 20 the S&P 500, $E(R_m)$ minus the risk-free rate of interest (R_f) . The MRP is the difference in the expected total return between investing in equities and investing in "safe" fixed-income assets, 21 such as long-term government bonds. However, while the MRP is easy to define conceptually, it 22 is difficult to measure because it requires an estimate of the expected return on the market -23 $E(R_m)$. As is discussed below, there are different ways to measure $E(R_m)$, and studies have come 24 up with significantly different magnitudes for $E(R_m)$. As Merton Miller, the 1990 Nobel Prize 25 26 winner in economics indicated, $E(R_m)$ is very difficult to measure and is one of the great mysteries in finance.37 27 28 Page 4 of Exhibit JRW-11 highlights the primary approaches to, 29

³⁷ Merton Miller, "The History of Finance: An Eyewitness Account," Journal of Applied Corporate Finance, 2000, page 3.

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and issues in, estimating the expected MRP. The traditional way to measure the MRP was to use the difference between historical

average stock and bond returns. In this case, historical stock and bond returns, also called ex post returns, were used as the measures of the market's expected return (known as the ex ante or forwardlooking expected return). This type of historical evaluation of stock and bond returns is often called the "Ibbotson approach" after Professor Roger Ibbotson, who popularized this method of using historical financial market returns as measures of expected returns. Most historical assessments of the equity risk premium suggest an equity risk premium range of 5% to 7% above the rate on long-term U.S. Treasury bonds. However, this can be a problem because: (1) ex post returns are not the same as ex ante expectations; (2) market risk premiums can change over time, increasing when investors become more risk-averse and decreasing when investors become less risk-averse; and (3) market conditions can change such that ex post historical returns are poor estimates of ex ante expectations.

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The use of historical returns as market expectations has been criticized in numerous academic studies as discussed later in my testimony. The general theme of these studies is that the large equity risk premium discovered in historical stock and bond returns cannot be justified by the fundamental data. These studies, which fall under the category "Ex Ante Models and Market Data," compute ex ante expected returns using market data to arrive at an expected equity risk premium. These studies have also been called "Puzzle Research" after the famous study by Mehra and Prescott in which the authors first questioned the magnitude of historical equity risk premiums relative to fundamentals.³⁸

In addition, there are a number of surveys of financial professionals regarding the MRP. There have also been several published surveys of academics on the equity risk premium. CFO Magazine conducts a quarterly survey of CFOs, which includes questions regarding their views on the current expected returns on stocks and bonds. Usually, over 500 CFOs participate in the survey.³⁹ Questions regarding expected stock and bond returns are also included in the Federal Reserve Bank of Philadelphia's annual survey of financial forecasters, which is published as the Survey of Professional Forecasters.⁴⁰ This survey of professional

³⁸ Rajnish Mehra & Edward C. Prescott, "The Equity Premium: A Puzzle," Journal of Monetary Economics, 145 (1985).

⁹ See DUKE/CFO Magazine Global Business Outlook Survey, <u>www.cfosurvey.org</u>, September, 2016). ⁴⁰ Federal Reserve Bank of Philadelphia, Survey of Professional Forecasters (Feb, 2016). The Survey of Professional Forecasters was formerly conducted by the American Statistical Association ("ASA") and the National Bureau of Economic Research ("NBER") and was known as the ASA/NBER survey. The survey, which began in 1968, is conducted each quarter. The Federal Reserve Bank of Philadelphia, in cooperation with the NBER. assumed responsibility for the survey in June 1990.

economists has been published for almost fifty years. In addition, Pablo Fernandez conducts annual surveys of financial analysts and companies regarding the equity risk premiums they use in their investment and financial decision-making.41 Derrig and Orr (2003), Fernandez (2007), and Song (2007) have completed the most comprehensive reviews to date of the research on the MRP.⁴² Derrig and Orr's study evaluated the various approaches to estimating MRPs, as well as the issues with the alternative approaches and summarized the findings of the published research on the MRP. Fernandez examined four alternative measures of the MRP - historical, expected, required, and implied. He also reviewed the major studies of the MRP and presented the summary MRP results. Song provides an annotated bibliography and highlights the alternative approaches to estimating the MRP. Page 5 of Exhibit JRW-11 provides a summary of the results of the primary risk premium studies reviewed by Derrig and Orr, Fernandez, and Song, as well as other more recent studies of the MRP. These include the results of: (1) the various studies of the historical risk premium, (2) ex ante MRP studies, (3) MRP surveys of CFOs, financial forecasters, analysts, companies and academics, and (4) the Building Blocks approach to the MRP. There are results reported for over thirty studies, and the median MRP is 4.63%.

The studies cited on page 5 of Exhibit JRW-11 include every MRP study and survey I could identify that was published over the past decade and that provided an MRP estimate. Most of these studies were published prior to the financial crisis. In addition, some of these studies were published in the early 2000s at the market peak. It should be noted that many of these studies (as indicated) used data over long periods of time (as long as fifty years of data) and so were not estimating an MRP as of a specific point in time (e.g., the year 2001). To assess the effect of the earlier studies on the MRP, I have reconstructed page 5 of Exhibit JRW-11 on page 6 of Exhibit JRW-11; however, I have eliminated all studies dated before January 2, 2010. The median for this subset of studies is 4.95%.

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⁴¹ Pablo Fernandez, Alberto Ortiz and Isabel Fernandez Acín, "Market Risk Premium used in 71 countries in 2016:

⁴² See Richard Derrig & Elisha Orr, "Equity Risk Premium: Expectations Great and Small," Working Paper (version 3.0), Automobile Insurers Bureau of Massachusetts, (August 28, 2003); Pablo Fernandez, "Equity Premium: Historical, Expected, Required, and Implied," IESE Business School Working Paper, (2007); Zhiyi Song,

a survey with 6,932 answers: survey," May 9, 2016.

[&]quot;The Equity Risk Premium: An Annotated Bibliography," CFA Institute, (2007).

1 2 3 4 5 6 7	Much of the da 4.0% to 6.0% ra American Appr CFO Survey h premium. There the range, as th consistent with t	ta indicates tha ange. Several aisers, Duarte nave suggested efore, I will use ne market risk the following N	t the market recent studies and Rosa, Du an increase 5.5%, which premium or IRPs	risk premium is ir (such as Damoda off & Phelps, and in the market is in the upper en MRP. This MR	n the aran, the risk id of P is
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 The Duke 10-ye The Bank the F Dond Bank The Bank the F Bank Bank Bank Bank Bank Bank Bank Bank Bank The Bank Th	September 201 e University, w ear MRP was 4 financial foreca of Philadelphi ebruary 2016 returns were 5 cted MRP of 1.9 pemics, financial 4,000 response ompanies was 3 & Phelps is or that publishe & Phelps recon	6 CFO survey hich included 25%. ⁴³ sters in the pr a survey proje survey, the m 3.34% and 3.4 90% (5.34%-3 published the analysts, and 5.3%. a well-know es extensively mended using Rate	y conducted by <i>C</i> about 450 respo reviously reference cted both stock an edian long-term e 4%, respectively. .44%). results of his companies. ⁴⁴ Th an MRP employed n valuation and on the cost of ca g a 5.5% MRP for	<i>CFO Magazine</i> a nses, the expected ad bond returns. expected stock a This provides 2016 survey is survey includ d by U.S. analy corporate finan pital. As of 20 the U.S. ⁴⁵
24	The results of my CAPM stud	dy for the prox	xy groups are	summarized on	page 1 of Exhi
25 26 27 28	JRW-11 and in Table 2 below.	CAPM-derive	Table 2 d Equity Cos	t Rate/ROE	
28		$\frac{K = (K_f)}{\text{Risk-Free}}$	$+ \mathfrak{b} \wedge IE(\mathbf{K}_m)$ Beta	- (<i>RØJ</i> Equity Risk	Equity
		Rate		Premium	Cost Rate
	Electric Proxy Group	4.0%	0.70	5.5%	7.9%
20	Hevert Proxy Group	4.0%	0.70	5.5%	7,9%
29 30	For the Electric Proxy Group, th	ne risk-free rate	of 4.0% plus	the product of the	beta of 0.70 tim
51	the equity risk premium of 5.5%	o results in a /.	970 equity cos	a rate. For the He	ven Proxy Grou
32	the risk-free rate of 4.0% plus t	the product of	he beta of 0.7	70 times the equit	y risk premium
33	5.5% results in a 7.9% equity co	ost rate.			

⁴⁴ Id. p. 3.
 ⁴⁵ <u>http://www.duffandphelps.com/insights/publications/cost-of-capital/index</u>

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Page 42

1	4 Military and a second second	4. <u>Eq</u>	uity Cost Ra	te Summary	
2	TTAT TILL BERNE			Overview	
3	N	ly DCF analy	ses for the E	Electric and Hevert Proxy Gr	oups indicate equity cos
4	8.45% ar	nd 8.75%, res	pectively. T	he CAPM equity cost rates f	for the Electric and Heve
5	Groups a	re both 7.9%.		- -	
6				Table 3	
7			ROEs Der	ived from DCF and CAPM	[Models
	-			DCF	CAPM
		Electric Pr	oxy Group	8.45%	7.90%
		Hevert Pro	oxy Group	8.75%	7.90%
8 9	G	iven these res	sults, I conch	ude that the appropriate equi	ity cost rate for compani
10	Electric a	and Hevert P	roxy Groups	s is in the 7.90% to 8.75%	range. However, sind
11	primarily	on the DCF	model, I an	n using the upper end of th	ne range as the equity c
12	Therefore	e, I conclude	that the app	propriate equity cost rate f	or the groups is 8.65%
13	recomme	ndation gives	primary weig	ght to the DCF results for the	Proxy Groups.
14		nere are a nu	mber of reaso	ons why an equity cost rate	of 8.65% is appropriate
15	for the Co	ompany in thi	s case:		
16		1.	1 have empl	oyed a capital structure tha	t has a slightly higher of
17			equity ratio	and therefore slightly lowe	r financial risk than the
18		2	structures of	the two proxy groups;	
19		2.	As shown in	1 Exhibits JRW-2 and JRW	-3, capital costs for utility
20			addition giv	iong-term bond yields, are s	tions and slow global e
21			growth inter	est rates are likely to remain	at low levels for some ti
23		3	As shown in	Exhibit IRW-8, the electr	ic utility industry is am
24		5.	lowest risk in	ndustries in the U.S. as meas	sured by beta. As such,
25			of equity ca	pital for this industry is a	mongst the lowest in th
26			according to	the CAPM;	-
27		4.	The investme	ent risk of KCPL, as indica	ted by the Company's S
28			Moody's issu	er credit rating of BBB+ and	d Baa1, are equal to the a
29			of the Electri	c and Hevert Proxy Groups;	and
30		5.	These autho	rized ROEs for electric ut	ilities have decreased of
31			years. As s	hown in Figure 5, the avera	ige authorized ROE for
32			utilities has c	leclined from 10.01% in 201	2, to 9.8% in 2013, to 9
55			2014, 9.38%	o in 2015, and 9.64% in th	ie iirst three quarters o

st rates of ert Proxy

ies in the ce I rely cost rate. %. This

e and fair

common ne capital

ilities, as evels. In economic

time; mong the , the cost the U.S.,

S&P and averages

over the r electric 9.76% in of 2016,

1 2 3 4 5 6 7 8 9	according to Regulat authorized ROEs have words, authorized RO rates. This has been commissions have to However, the <u>trend has</u> below ten percent. H our present historicall rates are finally being
10 11 12	F Authorized ROEs for Electric U 20
13	13.0 12.5 12.0 11.5 11.0 10.5 10.0 9.5 9.0 12,3 4123 4123 4123 4123 4123 4123 4123 412
14	Authorized
15	Moody's recently published an article
16	Moody's recognizes that authorized ROEs for
17	lower interest rates. 47
18	The credit profiles of US regul
19	the next few years despite or
20	continue to trim the sector's pro
21 22	comprehensive suite of cost r
23	business risk profile for utilities
	 ⁴⁶ Regulatory Focus, Regulatory Research Associates, 1 the authorized ROEs in Virginia which include generation comparisons for a company like Delmarva. ⁴⁷ Moody's Investors Service, "Lower Authorized Equi March 10, 2015.

atory Research Associates.⁴⁶ In my opinion, these e lagged behind capital market cost rates, or in other Es have been slow to reflect low capital market cost n especially true in recent years as some state been reluctant to authorize ROEs below 10%. has been towards lower ROEs, and the norm now is Ience, I believe that my recommended ROE reflects lly low capital cost rates, and these low capital cost recognized by state utility commissions.

Figure 5 **Jtility and Gas Distribution Companies** 000-2016



ROEs and Credit Quality

on utility ROEs and credit quality. In the article, or electric and gas companies are declining due to

lated utilities will remain intact over our expectation that regulators will ofitability by lowering its authorized rsistently low interest rates and a recovery mechanisms ensure a low s, prompting regulators to scrutinize

January, 2016. The electric utility authorized ROEs exclude ion adders and thus are inflated and also inappropriate

ity Returns Will Not Hurt Near-Term Credit Profiles,"

Page 44

1 2 3 4 5	their profitability, which is d book equity. We view cash rating driver than authorized can lower authorized ROEs w by targeting depreciation, or th
6	Moody's indicates that with the lower author
7	ROEs of 9.0% to 10.0%, but this is not impa
8	from raising record amounts of capital. With
9	that utilities and regulatory commissions are l
10	lower interest rates and cost recovery mechan
11 12 13 14 15 16 17 18 19	Robust cost recovery med US regulated utilities' credit of few years. As a result, falling credit driver at this time, but justify the cost of capital gap ROEs and persistently low in struggling to defend this gap, w vast majority of their costs ar rate mechanisms.
20	Overall, this article further supports the preve
21	are unlikely to hurt the financial integrity of u
22	Hope a
23	As previously noted, according to the
24	should be: (1) comparable to returns investors
25	(2) sufficient to assure confidence in the co
26	maintain and support the company's credit an
27	in line with the average of the Electric and He
28	below the average authorized ROEs for electric
29	in authorized and earned ROEs of electric uti
30	publication cited above, despite authorized ar
31	electric and gas companies has not been imp
32	raising about \$50 billion per year in capital. M

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lefined as the ratio of net income to flow measures as a more important ROEs, and we note that regulators vithout hurting cash flow, for instance hrough special rate structures.

rized ROEs, electric and gas companies are earning airing their credit profiles and is not deterring them th respect to authorized ROEs, Moody's recognizes having trouble justifying higher ROEs in the face of nisms.⁴⁸

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chanisms will help ensure that quality remains intact over the next authorized ROEs are not a material rather reflect regulators' struggle to between the industry's authorized interest rates. We also see utilities while at the same time recovering the nd investments through a variety of

ailing/emerging belief that lower authorized ROEs tilities or their ability to attract capital.

nd Bluefield Standards

Hope and Bluefield decisions, returns on capital expect to earn on other investments of similar risk; ompany's financial integrity; and (3) adequate to nd to attract capital. KCP&L's S&P credit rating is evert Proxy Groups. While my recommendation is ic utility companies, it reflects the downward trend ility companies. As is highlighted in the Moody's nd earned ROEs below 10%, the credit quality of paired and, in fact, has improved and utilities are Aajor positive factors in the improved credit quality

⁴⁸ Moody's Investors Service, "Lower Authorized Equity Returns Will Not Hurt Near-Term Credit Profiles,"

March 10, 2015.

	u l
1	of utilities are regulatory ratemaking mech
2	recommendation meets the criteria established
3 4 5 6 7 8 9 10 11 12 13 14	Figure 6 provides a market-b 8.65% ROE recommendation electric utilities has been in the Proxy Group and 9.2% for the I show the performance of the I the S&P 500 since January 1, about 9.0% is much more than requirements. The DJU is up of S&P 500 (labelled as GSPC in 2.63%. As such, in my opinion which is less than 50 basis po adequate to meet investors' retu
15 16 17 18	Fi Dow Jones Utili January 1 – N Source: https://
	ana basan ana ang ng tang tang tang ng tang
	s Axes
19 20	Source: https://finance.yahoo.com/
21	Staff Expert/Witness: J. Randall Woolridge
22	V. Rate Base
23	A. Plant-in-Service and Accumulat
24	Staff recommends plant-in-service (
25	("reserve") balances be based on actual book
26	June 30, 2016. This includes plant addition

chanisms. Therefore, I do believe that my ROE

I in the Hope and Bluefield decisions.

based test on the adequacy of my The current earned ROE's for ne 9.0% range (9.1% for the Electric Hevert Proxy Group). In Figure 5, I Dow Jones Utilities ("DJU") versus 2016. Clearly an earned ROE of adequate to meet investors' return over 13.65% year-to-date, while the in the graph in Figure 2) is up only n, my 8.65% ROE recommendation, points below these earned ROEs, is Irn requirements.

igure 6 lities vs. the S&P 500 November 4, 2016 //finance.yahoo.com/

ted Depreciation Reserve

"plant") and accumulated depreciation reserve ked amounts as of the end of the update period, ns that have occurred since the test year ending

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e... -

December 31, 2015, and the related depreciation reserve balances. At the time of the true-up 2 audit, adjustments to the plant balances Staff used for its direct filing will be updated to include 3 amounts for plant additions that have become fully operational and used for service as of December 31, 2016, the ending point of the true-up period. Staff will also include depreciation reserve balances related to all plant, including those additions and retirements. Plant must be -5 "fully operational and used for service" before it is appropriate to reflect that plant and its 6 7 associated reserve in rates.

8 The plant for KCPL for the period ending June 30, 2016, is identified on the Plant 9 Accounting Schedule- Schedule 3, and the accumulated depreciation reserve as of that date is 10 identified in the Depreciation Reserve Accounting Schedule- Schedule 6. The information in 11 Accounting Schedules 3 & 6 for plant and reserve are shown by Federal Energy Regulatory 12 Commission ("FERC") Uniform System of Accounts ("USOA") for each plant category, broken 13 out for production, transmission, distribution and general facilities.

It is necessary for both KCPL and Staff to make adjustments to the plant reserve balances 14 to account for retirement work in progress ("RWIP"). RWIP is retired plant that has not yet been 15 classified for certain components of depreciation, namely cost of removal and salvage. KCPL 16 removed the retired plant and related depreciation reserve from its plant and reserve account 17 balances as of the retirement dates. However, as of June 30, 2016, KCPL had not removed the 18 19 related reserve amounts associated with cost of removal and salvage accruals calculated for the retired plant included in the RWIP balance. While the actual plant is retired and removed from 20 21 plant balance and the related reserve, the plant has not been physically disassembled so the cost of removal and salvage components of depreciation are still included in the reserve. As a result, 22 KCPL's books overstate the reserve for this retired plant that is no longer serving the public. 23 Because the plant that is no longer being used for service is removed from rate base, it is also 24 necessary to make a corresponding adjustment to remove the amounts associated with the retired 25 26 plant from the reserve balances and for the cost of removal and salvage amounts. Staff included a line item in the Accumulated Depreciation schedule, identifying the RWIP associated with 27 28 Production, Transmission, Distribution, and General Plant.

29 Staff requested the plant and reserve amounts by FERC account and, in the case of the production facilities, by individual power plant. KCPL uses an accounting package for plant 30 31 records called Power Plant. Staff requested plant and reserve information that came directly

from the Power Plant record system. As such, the plant and reserve information contained in 1 2 Accounting Schedules 3 and 6 by the individual plant categories and FERC accounts are those that directly tie back to the books and records of KCPL. Periodically, Staff verifies the actual 3 plant and reserve balances directly back to the Power Plant record system source to substantiate 4 the amounts provided by KCPL in data requests. After the direct filing in this case, Staff intends 5 on performing this verification procedure. 6 7 Depreciation expense is based on Staff witness Keenan B. Patterson's recommended 8 depreciation rates that were applied to the adjusted Missouri jurisdictional plant balances as of June 30, 2016. This will be further discussed in the Income Statement section of Staff's Cost of 9 Service Report in the Depreciation Expense section. 10 The following table identifies KCPL and 11 ιyg 12

Load	Unit	Year Completed	Estimated 2016 MW Capacity	Primary Fuel
Base Load	latan No. 2	2010	482 (a)	Coal
	Wolf Creek	1985	549 (a)	Nuclear
	latan No. 1	1980	499 (a)	Coal
	LaCygne No. 2 343 (a) in 2013	1977	699 combined (a)	Coal
	LaCygne No. 1 368 (a) in 2013	1973	See above	Coal
	Hawthorn No. 5(b)	1969	564	Coal
	Montrose No. 3	1964	176	Coal
	Montrose No. 2	1960	164	Coal
Peak Load	West Gardner Nos. 1-4	2003	311	Natural Gas
	Osawatomie	2003	77	Natural Gas
	Hawthorn Nos. 6 and 9	1997, 2000	235	Natural Gas
	Hawthorn No. 8	2000	79	Natural Gas
	Hawthorn No. 7	2000	78	Natural Gas
	Northeast Black Start Unit	1985	2	Oil
	Northeast Nos. 17-18	1977	105	Oil
	Northeast Nos. 13-14	1976	95	Oil
	Northeast Nos. 15-16	1975	106	Oil
	Northeast Nos. 11-12	1972	93	Oil
Wind	Spearville 2 Wind Energy Facility (c)	2010	15	Wind
	Spearville 1 Wind Energy Facility (d)	2006	31	Wind
Total KCP&	ـــــــــــــــــــــــــــــــــــــ		4,360 MWs	

	nd	GMO	electric	utility	generation	resources
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	Lo	ad	Unit	Year Completed	Estimated 2016 MW Capacity	Primary Fuel
	Bar		Jotan No. 2	2010	150 (a)	Carl
			Istan No. 1	1980	139 (a)	Coal
			Jeffrey energy Center Nos. 1, 2 and 3	1978, 1980, 1983	172 (a)	Coal
			Sibley Nos.1, 2 and 3	1960, 1962, 1969	461	Coal
			Lake Road Nos, 2 and 4	1957, 1967	115	Coal and Natural Gas
	Pea	k Load	South Harper Nos. 1, 2 and 3	2005	303	Natural Gas
			Crossroads Energy Center	2002	292	Natural Gas
			Ralph Green No. 3	1981	71	Natural Gas
			Greenwood Nos. 1, 2, 3 and 4	1975-1979	247	Natural Gas/Oil
			Lake Road No. 5	1974	62	Natural Gas/Oil
			Lake Road Nos. 1 and 3	1951, 1962	16	Natural Gas/Oil
			Lake Road Nos. 6 and 7	1989, 1990	42	Oil
			Nevada	1974	18	Oil
	Tot. GM	al (O			2,086 MWs	
	Tot	al Great	Plains Energy		6,446 MWs	
1 2 3 4 5 6 7 8 9	So	<i>urce</i> : C a b c d	 GREAT PLAINS ENERGY INC. 1 Share of a jointly owned unit. In 2001, a new boiler, air qual service at the Hawthorn Geroperation in June 2000 follow The 48 MW Spearville 2 M pursuant to SPP reliability states The 100.5 MW Spearville M pursuant to SPP reliability states 	0-K December ity control equi lerating Station ing a 1999 expl Vind Energy I idards, Wind Energy I idards,	31, 2015, page 22 ipment and an uprated a. The unit was retu- losion. Facility's accredited Facility's accredited	turbine was place in urned to commercial capacity is 15 MW capacity is 31 MW
10	KCP&L o	wns 5	0% of La Cygne Nos. 1 and	2, 70% of I	atan 1, 55% of la	tan No. 2 and 47%
11	Wolf Crea	ek. G	MO owns 18% of each of Ia	atan Nos. 1 a	and 2 and 8% of .	leffrey Energy Ce
12	Nos. 1, 2,	and 3.				
13	Staff Expe	ert/Wit	ness: Cary G. Featherstone			
14	В.	Pla	ant Amortization			
15	Sta	aff eva	aluated and annualized KCP	L's plant an	nortization expension	se. Like depreciat
16	expense, p	olant a	mortization expense represer	nts the return	of the capital cos	ts incurred in relat
17	to intangil	ble ass	sets such as software, land r	ghts, leaseho	old improvements	, and other intangi

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iation elation ngible

1	items. Because these costs are intangible
2	depreciation rate in the depreciation expense
3	schedules. Staff has included the annualized
4	Schedule 10, adjustments E-242-1 and E-247
5	Staff Expert/Witness: Antonija Nieto
6	C. Greenwood - Additions to Pla
7	In 2016, GMO began construction
8	current ("DC") utility-scale solar facility loc
9	Greenwood Energy Center. Staff intended to
10	up portion of the GMO rate case, ER-2016
11	because Staff's direct position is to allocate
12	evaluation of in-service is presented here.
13	In order to include the solar facility
14	and used for service." ⁴⁹ In-service criter
15	requirements used to determine whether a new
16	A new facility may not have any his
17	could make a recommendation to the Comm
18	and used for service"; therefore, operational t
19	Staff to file its recommendation. In-service
20	unit's specifications and discussions with the
21	GMO presented in-service criteria in t
22	Staff agrees that the presented in-service crite
23	solar facility. Based on Staff's review and an
24	met the in-service criteria effective June 2
25	Greenwood Solar facility be considered fully
26	regarding Staff's review are attached in Appen
27	Staff Expert/Witness: Claire M. Eubanks, PE
	⁴⁹ Section 202 125 PSMo 2000; "Any chorese made a

Section 393.135, RSMo. 2000: "Any charge made or demanded by an electrical corporation for service, or in connection therewith, which is based on the costs of construction in progress upon any existing or new facility of the electrical corporation, or any other cost associated with owning, operating, maintaining, or financing any property before it is fully operational and used for service, is unjust and unreasonable, and is prohibited." (Emphasis added)

in nature, the plant accounts are not assigned a accounting schedule in Staff's EMS Cost of Service ed plant amortization expense on Staff Accounting 7-1.

int – In-Service Critería

of an approximately 3 megawatt ("MW") direct cated near Greenwood, MO; adjacent to the existing respond to the in-service evaluation during the true-5-0156, however, because the case was settled and e the Greenwood facility in part to KCPL, Staff's

into rate base, the plant must be "fully operational ria are a set of operational tests or operational w unit is "fully operational and used for service."

storical operating information from which the Staff ission of whether the new unit is "fully operational tests must be established and performed in order for criteria are developed based on review of the new Company.

the direct testimony of Tim Rush in ER-2016-0156; eria are appropriate for evaluation of the Greenwood alysis of the data, the Greenwood Solar facility has 20, 2016. Therefore, Staff recommends that the operational and used for service. Additional details ndix 3, Schedule CME-1.

1	D. Greenwood - Solar Allocation
2	On November 12, 2015, GMO filed
3	Commission requesting permission and app
4	Necessity ("CCN") authorizing it to constru
5	control and manage solar generation facili
6	Project"). GMO entered into a Master Serv
7	** for the en
8	Greenwood Solar Project. ⁵⁰ The Greenwood
9	facility that will produce approximately 4,7
10	year. GMO indicated in its CCN application
11	gain hands-on solar operation and maintenanc
12	The Commission approved GMO's rec
13	its Report and Order effective March 12, 2
14	Commission stated, "The Commission has fo
15	plant is necessary or convenient for the public
16	convenience and necessity it seeks."
17	In addition to granting GMO the CCN for
18	addressed concern that GMO ratepayers will b
19	built to allow KCPL to gain experience ownin
20	facility. Beginning on page 16 of its Rep
21	Commission stated:
22	The Commission is concerned
23	the cost of the project. The Cor
24	ratemaking decisions in this
25	GMO's pending rate case. Ho
26	come before the Commission w
27	its rate base. At that time, the
28	propose a means by which KCD 81 h anotomous who
29	NUT OLL'S CUSTOMETS WILD WILD WILD WILD WILD WILD WILD WILD
50	tear new from this phot projec

an application, Case No. EA-2015-0256, with the proval of a Certificate of Public Convenience and ruct, install, own, operate, maintain and otherwise lities in Greenwood Missouri ("Greenwood Solar vice Agreement ("Agreement") with **

gineering, procurement, and construction of the od Solar Project is a 3 megawatts ("MW") solar 700 megawatt-hours ("MWh") of solar energy per the Greenwood Solar project was being proposed to ce skills.⁵¹

quest for a CCN for the Greenwood Solar Project in 2016. On page 18 of its Report and Order, the ound that GMO's proposal to construct a pilot solar service and will grant the company the certificate of

for the Greenwood Solar Project, the Commission also bear all the costs of a project that is primarily being ng, maintaining, and operating a utility scale solar port and Order in Case No. EA-2015-0256, the

that only GMO ratepayers will bear mmission will not make any specific case. Those will be reserved for owever, the matter will once again when GMO seeks to add the plant to Commission will expect GMO to those costs will be shared with vill also benefit from the lessons et. [emphasis added]

⁵⁰ KCPL-GMO response to Staff Data Request 6 in Case No. EA-2015-0256. ⁵¹ Case No. EA-2015-0256, Application of KCP&L Greater Missouri Operations Company for Permission and Approval of a Certificate of Public Convenience and Necessity Authorizing It to Construct, Install, Own, Operate, Maintain and Otherwise Control and Manage Solar Generation Facilities in Western Missouri, Pages 3 - 5.



Page 51

1	GMO do	es not have any	employees.	KCPL en	nployees pe	erform all s	services for
2	Energy, 1	KCPL, and GMC) under an	operating a	agreement.	The empl	oyees that
3	experienc	e operating a uti	lity scale so	olar project	are KCPL	employees	. Conseque
4	districts,	KCPL-Missouri,	KCPL-Kan	sas and GN	MO will be	nefit from	the acquire
5	from buil	ding and operating	g a utility so	ale solar fa	cility.		
6	In	Case No ER-20	16-0156, Gl	MO witnes	s Tim Rush	stated that	t the Greenv
7	was place	d in service as of	June 20, 20	016. ⁵² In th	nat case, Sta	iff had not	completed t
8	criteria fo	r the Greenwood	facility as a	a result of t	he black bo	x settlemei	nt in the GM
9	In this re	port, however, St	aff witness	Claire M.	Eubanks w	vill address	the Greenv
10	in-service	criteria.					
11	A۱	osent a proposal to	o allocate a	portion of t	he Greenwo	ood Solar P	'roject costs
12	its direct	filing in this case	as ordered	by the Cor	mmission ir	n Case No.	EA-2015-0
13	proposing	an allocation me	thodology	for the Gre	enwood Sol	lar Project	costs that is
14	Staff's Ac	counting Schedul	es.				
15	Sta	aff recommends	allocating	the Green	wood sola	r capital	costs and
16	expenses	based on number	of custome	rs. The Co	ommission a	addressed i	n its Order
17	EA-2015-	0256 the intangib	ole benefits	that will b	e gained fr	om the exp	perience of
18	and opera	ting the facility a	and the resu	ilts that wi	Il lead to in	creased us	e of solar p
19	future.53	Since the experie	ence gained	will benef	it all of K(CPL and G	MO's custo
20	future, all	ocating the costs	using custo	mers is a r	easonable a	pproach.	The table be
21	the allocat	ion between KCP	L and GMC) using cust	omers: ⁵⁴		
22		Mathadalam		0/	CMO	0/	Tatal
		wiethodology	KUPL COLOOD	70		70	101ai
		Customers	524,999	62.27%	518,150	51.15%	843,149

Methodology	KCPL	%	GMO	%	Total
Customers	524,999	62.27%	318,150	37.73%	843,149

23

The adjustment to allocate capital costs is reflected on Schedule 4 of Staff's Accounting 24 Schedules, Adjustment P-233.1. At the time of Staff's Direct filing, KCPL has not incurred any 25 26 maintenance costs for the Greenwood Solar facility. Staff also recommends that maintenance

⁵² Rush rebuttal testimony in Case No. ER-2016-0156, page 21.
 ⁵³ Case No. EA-2015-0256 Commission Report and Order, page 16.
 ⁵⁴ Data from KCPL, MPS, and L&P Annual Report filed on May 31, 2016.

Great Plains will gain the ently, all rate ed knowledge

wood facility the in-service MO rate case. wood facility

s by KCPL in 0256, Staff is is included in

any related in Case No. constructing power in the omers in the elow reflects

Page 52

1	costs associated with the Greenwood Solar fac
2	KCPL incurs maintenance costs through the tr
3	Since the Greenwood Solar Project is
4	and maintaining a utility scale solar facility w
5	also recommends that the costs of the Greenw
6	the Kansas jurisdiction. Staff utilizes a deman
7	costs between Kansas and Missouri. Staff us
8	Solar Project between Missouri and Kansas in
9	Staff Expert/Witness: Karen Lyons
_	
-	
10	E. Material and Supplies
10 11	E. Material and Supplies Staff's recommended treatment of ma
10 11 12	E. Material and Supplies Staff's recommended treatment of ma individually in order to determine an appropri
10 11 12 13	E. Material and Supplies Staff's recommended treatment of ma individually in order to determine an appropri future investment costs of a particular accourt
10 11 12 13 14	E. Material and Supplies Staff's recommended treatment of ma individually in order to determine an appropri future investment costs of a particular accour and supplies represent an investment in inven
10 11 12 13 14 15	E. Material and Supplies Staff's recommended treatment of ma individually in order to determine an appropri future investment costs of a particular accour and supplies represent an investment in inven poles, meters, and other miscellaneous iter
10 11 12 13 14 15 16	E. Material and Supplies Staff's recommended treatment of ma individually in order to determine an appropri future investment costs of a particular accour and supplies represent an investment in inven poles, meters, and other miscellaneous iter construction activities by KCPL to maintain a

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Schedule 2).

Staff Expert/Witness: Michael Jason Taylor

cility be allocated in the same manner to the extent rue-up period, December 31, 2016.

being built to gain experience owning, operating, ith KCPL employees gaining the experience, Staff vood Solar project be allocated to KCPL to include ad allocator to allocate production plant and reserve sed the same approach to allocate the Greenwood Staff Accounting Schedule 3.

aterials and supplies is to examine each account iate level that most accurately reflects the ongoing nt that should be included in rate base. Materials tory for items such as spare parts, electric cables, ms used in daily operations, maintenance, and nd build KCPL's production facilities and electric ed greatly depending on each individual account, Staff reviewed the balances for each account for materials and supplies individually on a monthly basis to determine whether trends within an individual account existed over time. Staff reviewed the monthly balances for materials and supplies accounts from December 2014 to December 2015. If an upward or downward trend was detected, then Staff used the ending balance for that account. If there was no discernible trend, then a 13-month average was determined to be the most appropriate measure of the ongoing investment level for that account. Staff examined the accounts individually and determined which methodology, 13-month average or ending balance, was the most appropriate measure to accurately predict the ongoing future investment costs of a particular account that should be included in rate base (Accounting

1 F. Prepayments 2 3 4 5 6 -7 8 -9 10 11 12 13 14 15 16 17 18 19 20 21 added to KCPL's rate base, as indicated in Accounting Schedule 2. 22 Staff Expert/Witness: Michael Jason Taylor 23

Cash Working Capital G.

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29

24 Cash Working Capital (CWC) is the amount of cash necessary for a utility to pay the day-to-day expenses incurred to provide utility services to its customers. Cash inflows from 25 payments received by the company from its customers for the provision of utility service and 26 cash outflows for expenses paid by the company in providing that utility service are analyzed using a lead/lag study. KCPL and Staff are using the same expense lags agreed to by both parties in the 2014 rate case. Staff has reviewed the methodology described by KCPL witness

Staff's recommended treatment of prepayments is to examine each prepayment account individually in order to determine an appropriate measure that most accurately predicts the ongoing future investment costs of a particular prepayment account, and then to include the appropriate level of prepayments in KCPL's rate base. Prepayments are expenses a company pays in advance of the associated good or service purchased. Since there are investment costs incurred by the utility when it prepays expenses, the company is allowed to earn a return on these amounts through inclusion in rate base. For example, KCPL prepays for a property insurance policy to protect its assets in advance of the coverage period. Accordingly, the cost of that insurance policy is considered to be a prepaid asset and included in rate base. As the prepayments are consumed, an amount is charged to an expense account in the income statement. Staff included amounts in its rate base for all prepayments required for KCPL to provide electric utility service to its customers. Staff examined all of KCPL's prepayment account balances from June 2015 to June 2016, on a month-by-month basis. Based on this review, and the variability in the monthly account balances, Staff determined the prepayment levels to be included in KCPL's rate base. For accounts where there was no discernible upward or downward trend in the monthly balances, Staff calculated an average based on balances for the 13-months ending June 30, 2016. For accounts where a noticeable upward or downward trend was present, Staff used the most recent account balances (June 30, 2016). The Commission should base its awarded revenue requirement on Staff's recommended appropriate measure of prepayments

1	Ronald A. Klote concerning the calculation of
2	as outlined on pages 28 and 29 of his direct tes
3	When the company expends funds to
4	cash, the shareholders are the source of the
5	shareholders' total investment in the company
6	funds they provide by the inclusion of these fu
7	base, the shareholders earn a return on the fund
8	Customers supply CWC when they pay
9	pays expenses incurred to provide that service
10	they provide by a reduction to the utility's rate
11	in the aggregate, the shareholders provided th
12	paid the expenses incurred to provide the
13	customers had to pay the company for the pro
14	requirement indicates that, in the aggregate,
15	means that, on average, the customers paid for
16	the expenses that the utility incurred to provide
17	Accounting Schedule 8, Cash Workin
18	capital to be reflected in KCPL's cost of servi
19	the Rate Base Accounting Schedule 2 in the se
20	analysis results used in the Schedule 2 sect
21	amounts of Federal Tax Offset, State Tax Offse
22	Staff Expert/Witness: Matthew R. Young
23	H. Fuel Inventories
24	1. <u>Coal Inventory</u>
25	The amount Staff included in KCPL's
26	obtained from Staff's production cost model
27	determine the appropriate mix of generation
28	normalized native load for KCPL. In doing s
29	amount of tons of coal burned by each coal-fir
30	test year. Staff divided the annual tons of c
3	

f the revenue lag and is using the same revenue lags stimony.

pay an expense before its customers provide the ne funds. This cash represents a portion of the y. The shareholders are compensated for the CWC funds in rate base. By including these funds in rate ids they have invested.

y for electric services received before the Company e. Utility customers are compensated for the CWC e base. A positive CWC requirement indicates that, he CWC. This means that, on average, the utility electric services to its customers before those ovision of these utility services. A negative CWC the utility's customers provided the CWC. This the utility's electric services before the utility paid those services.

ng Capital, identifies the amount of cash working rice. Staff's CWC analysis results are reflected on ection "Add to Net Plant In Service." Staff's CWC tion titled "Subtract From Net Plant" reflect the set, City Tax Offset and Interest Expense Offset.

rate base for coal inventory is based on the results ("fuel model"). Staff used its fuel model to and purchased power utilization to match the so, Staff obtained from the fuel model an annual red generation unit during the normalized updated coal burned from the fuel model by 365 days to

1	calculate an average daily burn by unit. Sta
2	recommended number of burn days of con
3	estimated level of basemat coal. Basemat
4	difficult to burn in the generating facilities
5	and other contaminants. Staff then multip
6	each unit by the delivered cost per ton of coa
7	for each unit were then aggregated. The a
8	jurisdictional allocation factor to arrive at
9	Accounting Schedule 2.
10	Staff Expert/Witness: Karen Lyons
11	2. <u>Nuclear Inventory</u>
12	To determine the amount to include i
13	used an 18-month average of the value of n
14	Wolf Creek nuclear generating unit. Since the
15	18-month time period reflects the average nu
16	fuel usage cycle at Wolf Creek. This appro
17	calculate the revenue requirement in this
18	inventory for KCPL is shown on Schedule 2
19	Staff Expert/Witness: Karen Lyons
20	3. Oil and Fuel Additive In
21	Staff used 13-month averages to dete
22	ammonia, and powder activated carbon inv
23	various inventories using the latest pricing o
24	of 13-month average inventory levels is app
25	for the entire 12-month update period ending
26	and an ending inventory. Using the test year
27	example, a 13 month average would beg
28	A 13-month average reflects the entire year
29	balance and including each subsequent mo

aff then multiplied this average daily burn by KCPL's bal inventory for each generation unit and added an coal is the bottom portion of the coal pile that is because of the contamination of moisture, soil, clay, plied the resulting normalized level of inventory for bal for use at that unit. The resulting annual coal costs aggregated amount was multiplied by Staff's energy the coal inventory amount shown in Rate Base -

in rate base for KCPL's nuclear fuel inventory, Staff uclear fuel that was contained in the fuel core of the the Wolf Creek unit is refueled every 18 months, this clear fuel inventory value during a complete nuclear bach is consistent with the method used by KCPL to case. Staff's recommended level of nuclear fuel of Staff's Accounting Schedules.

<u>iventories</u>

termine the inventory levels for oil, lime, limestone, ventories as of June 30, 2016. Staff priced out the or the actual monthly dollar levels of inventory. Use propriate in that it reflects KCPL's actual experience g June 30, 2016 by including a beginning inventory ending 12 months ending December 31, 2015 as an gin with January 1 and end with December 31. by using the December 31 (January 1) beginning onth-ending balance through the end of the year

(December 31). Twelve month-ending balances from January 31 through December 31 do not 1 accurately reflect the KCPL's actual experience because they ignore the impact of the period 2 from January 1 through January 30. When inventory levels fluctuate from month-to-month, as 3 they do with fuel stocks, a 13-month average is used to smooth out those levels. Staff's 4 inventory levels for coal, nuclear, oil, limestone, and ammonia are shown in Rate Base -5 Accounting Schedule 2. Staff's approach is consistent with the method used by KCPL to 6 calculate the revenue requirement in this case. 7 Staff Expert/Witness: Karen Lyons 8

Customer Deposits I.

9

Staff's recommended treatment of customer deposits is to deduct the most current 10 customer deposit balance, as reflected in the Missouri jurisdictional total, from KCPL's rate 11 base. Customer deposits are the funds required to be provided by certain customers taking 12 electrical service from KCPL. These funds are deducted from KCPL's rate base because these 13 funds are cost-free to KCPL. The amount reflected for customer deposits on Accounting 14 Schedule 2, Rate Base, is a thirteen (13) month average for the period June 2015 to June 2016. 15 The balance reflected on the Rate Base Accounting Schedule is the Missouri jurisdictional total 16 for customer deposits. The thirteen (13) month average was used because the account balance 17 fluctuated over that period. In addition to the amount deducted from rate base for customer 18 deposits, an amount for interest on customer deposits has been included as an adjustment to the 19 income statement under Account 903 (Accounting Schedule 10). Customers are paid interest for 20 the use of the funds they provide to KCPL on a cost-free basis, and that interest expense is 21 included as an expense in the revenue requirement calculation discussed in more detail in the 22 "Customer Deposits - Interest Expense" section below. The Commission should base its 23 awarded revenue requirement on Staff's recommended deduction on a thirteen (13) month 24 average for the period June 2015 to June 2016 for Customer Deposit funds reflected in the 25 Missouri jurisdictional total from KCPL's rate base. 26 Staff Expert/Witness: Michael Jason Taylor 27

1	J. Customer Advances
2	Staff's recommended treatment of cu
3	account balances ending June 30, 2016, from
4	for KCPL did not exhibit a discernible upwa
5	Customer advances are funds typica
6	order to ensure that KCPL builds electric i
7	development. These advances are also used l
8	future customers without investing a substan
9	other customers. Unlike customer deposi
10	respective customers on a cost-free basis
11	service to those customers, customer advance
12	obligate KCPL to provide future electric
13	customers. Customer advances represent a
14	eventually return the funds advanced by cust
15	these funds is not financed with debt or equ
16	pay a return on these plant investments. Thus
17	Accounting Schedule 2 as a reduction, lower
18	must supply as a return to the utility.
19	Staff Expert/Witness: Michael Jason Taylor
20	K. Iatan Construction Accountin
21	During the creation and execution
22	construction of latan 2, which involved addin
23	other investments, the Commission authorize
24	accounts for potential recovery in future get
25	Iatan generating units, the costs associated w
26	KCPL book in a regulatory asset account,
27	collected in the regulatory asset account:
28	······

Owner	Generating Unit	Expense Type	Accumulation Period
KCPL	latan 1 and	Depreciation, Carrying	May 1, 2009 – May 4,

ustomer advances is to deduct a 13-month average of m KCPL's rate base, as the monthly account balances ard or downward trend.

ally provided by construction developers to KCPL in infrastructure in areas that have potential for future by the utility to establish electric service for potential ntial amount of money at the risk of the utility and its sits, where KCPL receives these payments from without any future obligation to provide electrical ces are provided to KCPL from certain customers that ical infrastructure and service for those affected recorded liability to recognize the obligation to stomers to KCPL. The infrastructure constructed with uity and, thus, ratepayers should not be obligated to is, customer advances are included in the rate base on ring the amount of overall investment that customers

ng Regulatory Assets

of KCPL's Experimental Regulatory Plan for the ing pollution control equipment to latan 1, as well as red KCPL to book certain costs into regulatory asset eneral rate cases. Below is a table that identifies the with that generating unit the Commission authorized and the time period over which the costs were

	Common	Cost, No O&M	2011
KCPL	latan 2	Depreciation, Carrying Cost, O&M	August 26, 2010 – May 4, 2011

2	Pursuant to the Commission's Order of June
3	2009 Stipulation and Agreement, the Comm
4	account for recording the depreciation and c
5	common facilities appropriately recorded t
6	account was not included in KCPL's rate
7	July 28, 2005 Report and Order approving
8	EO-2005-0329, the Commission authorized
9	booking the depreciation, carrying costs, a
10	Unit 2 subsequent to its fully operational and
11	For purposes of inclusion in KCPL's
12	of these regulatory asset accounts as of June
13	Commission ordered in its procedural sched
14	of the regulatory assets through December 31
15	The latan Unit 1 and latan facilities
16	accounting from May 1, 2009, through De
17	ER-2010-0355, is referred to by Staff as "Ia
18	in Staff's schedule labeled, "Rate Base – Sch
19	The latan Unit 1 and common re
20	from January 1, 2011, through May 4, 20
21	ER-2010-0355), is referred to by Staff as "Ia
22	in Staff's schedule labeled, "Rate Base – Sch
23	The Iatan Unit 2 regulatory asset, c
24	2010, through December 31, 2010, the true-
25	by Staff as "latan 2 - Vintage 1." This regu
26	"Rate Base – Schedule 2," and is amortized to
27	The latan Unit 2 regulatory asset, c
28	2011, through May 4, 2011, the effective dat

⁵⁵ Air quality control system.

10, 2009, in Case No. ER-2009-0089, approving the nission authorized KCPL to create a regulatory asset carrying costs for the latan Unit 1 AQCS⁵⁵ and latan to electric plant-in-service, but the amount in that base in that case. Pursuant to the Commission's the Stipulation and Agreement filed in Case No. d KCPL to create a regulatory asset account for and other operating expenses and credits for Iatan

used for service date of August 26, 2010. rate base, Staff reflected the unamortized balances

30, 2016, the end of the test year update period the dule order in this case. Staff will update the balance , 2016, in its true-up of rate base.

common regulatory assets, capturing construction ecember 31, 2010, the true-up cutoff in Case No. tan 1 - Vintage 1." This regulatory asset is included nedule 2," and amortized to expense over 26 years.

egulatory asset, capturing construction accounting)11 (the effective date of new rates in Case No. atan 1 - Vintage 2." This regulatory asset is included nedule 2," and amortized to expense over 24.3 years. capturing construction accounting from August 26, -up cutoff in Case No. ER-2010-0355, is referred to latory asset is included in Staff's schedule labeled, to expense over 47.7 years.

capturing construction accounting from January 1, te of rates in Case No. ER-2010-0355, is referred to

1	by Staff as "Iatan 2 - Vintage 2." This regu
2	"Rate Base - Schedule 2," and amortized to
3	The test year ending December 31
4	related to these regulatory assets; therefore, r
5	Staff Expert/Witness: Matthew R. Young
6	VI. Income Statement – Revei
7	A. Rate Revenues
8	1. Introduction
9	This section will describe how Staff
10	The largest component of operating revenu
11	customers, therefore, a comparison of operat
12	test of the adequacy of the currently effectiv
13	investigation has discovered some discre
14	calculations. Staff is investigating this fur
15	future testimony. An increase in the current
16	electricity may be appropriate, if the ove
17	customers exceeds the operating revenues.
18	One of the major tasks in a rate cas
19	(or excess) between cost of service and ope
20	(or excess) can only be corrected (or other
21	(i.e., rate revenue) prospectively. Operating
22	Operating Revenue and Rate Revenue.
23	Rate Revenue – Test Year rate reve
24	KCPL's charges for providing electric service
25	are determined by taking each customer's
26	The appropriate rate varies based on different
27	winter), types of charges (demand, energy, etc
28	Staff Expert/Witness: Michael L. Stahlman

gulatory asset is included in Staff's schedule labeled, between expense over 46 years.

1, 2015, includes a full 12 months of amortization no adjustment to expense is necessary.

enues

f determined the level of KCPL Operating Revenues. ues results from the rates charged to KCPL's retail ating revenues with cost of service is fundamentally a tive Missouri retail electricity rates. Staff through its repancies between KCPL's and Staff's revenue orther and will provide any relevant information in trates KCPL charges its Missouri retail customers for erall cost of providing service to Missouri retail

se is to determine the magnitude of any deficiency perating revenues. Once determined, the deficiency rwise addressed) by adjusting Missouri retail rates g Revenues are composed of Off-system Sales, Other

venues consist solely of the revenues derived from ce to its Missouri retail customers. KCPL's revenues usage and applying the appropriate tariffed rates. nt factors, including the time of the year (summer vs. tc.), and the customer's rate class.

1	2. The Development of Rate
2	Staff's recommended method for de-
3	normalized billing units and revenues by ra
4	through December 31, 2015, updated through
5	growth.
6	Staff's adjustments to KCPL's Misso
7	based upon information that is "known and
8	(June 30, 2016). The two major categories of
9	and "annualization." Normalizations address
10	be repeated in the years when the new rates
11	Test Year weather. Annualizations are adju
12	through June 30, 2016, for rate switchers, cus
13	known at the end of the Test Year had existed
14	Not all adjustments affect both billing
15	subject to every adjustment.
16	Staff Expert/Witness: Michael L. Stahlman
17	3. <u>Weather Normalization</u>
17 18	3. <u>Weather Normalization</u> a. Weather Variables
17 18 19	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W
17 18 19 20	 <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re
17 18 19 20 21	 <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rate
17 18 19 20 21 22	 <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ
17 18 19 20 21 22 23	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ relationship between test year weather and en
17 18 19 20 21 22 23 24	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ relationship between test year weather and en test year of January 1, 2015, through Decem
17 18 19 20 21 22 23 24 25	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ relationship between test year weather and en test year of January 1, 2015, through Decem Airport ("MCI") in Kansas City, Missouri.
17 18 19 20 21 22 23 24 25 26	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ relationship between test year weather and en test year of January 1, 2015, through Decem Airport ("MCI") in Kansas City, Missouri. As a measure of "normal" weather, i
17 18 19 20 21 22 23 24 25 26 27	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ relationship between test year weather and en test year of January 1, 2015, through Decem Airport ("MCI") in Kansas City, Missouri. As a measure of "normal" weather, i ("normals") published by the National Clim
17 18 19 20 21 22 23 24 25 26 27 28	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ relationship between test year weather and en test year of January 1, 2015, through Decem Airport ("MCI") in Kansas City, Missouri. As a measure of "normal" weather, f ("normals") published by the National Clim Oceanic and Atmospheric Administration ("N
17 18 19 20 21 22 23 24 25 26 27 28 29	3. <u>Weather Normalization</u> a. Weather Variables Historical Data Used to Calculate W consequently, test year usage, hourly loads, re to be adjusted to "normal" weather so that rat rather than any anomalous weather which occ relationship between test year weather and en test year of January 1, 2015, through Decem Airport ("MCI") in Kansas City, Missouri. As a measure of "normal" weather, f ("normals") published by the National Clim Oceanic and Atmospheric Administration ("N defined as the arithmetic mean of a climato

e Revenue

veloping Rate Revenue is to determine annualized, ate classes during the Test Year of January 1, 2015 igh June 30, 2016, for rate switchers and customer

ouri jurisdictional billing units and rate revenues are measurable" through the end of the Update Period f revenue adjustments are known as "normalization" ss Test Year events that are unusual and unlikely to from this case are in effect, e.g., events such as the istments that re-state the Test Year results, updated stomer growth, and new retail rates, as if conditions through June 30, 2016.

g units and rate revenue and not all rate classes are

2S

Veather Variables – Each year's weather is unique; evenue, and fuel and purchased power expense need tes will be designed on the basis of normal weather courred in the test year. In the quantification of the nergy sales, Staff used weather observations for the nber 31, 2015, from the Kansas City International

Staff used a 30-year period of "climate normals" natic Data Center ("NCDC") of the U.S. National NOAA"). According to NOAA, a climate normal is ological element computed over three consecutive

decades.⁵⁶ To conform to the NOAA's three consecutive decades for determining normal 2 temperatures, Staff used observed maximum and minimum daily temperatures for the 30-year period of January 1, 1981, through December 31, 2010. Therefore, Staff bases its calculations on 3 the time period of the most recent climate normals produced by NCDC.⁵⁷ 5 Although the definition of normal weather is relatively simple, the actual calculations may be more complicated. Inconsistencies and biases in the 30-year time series of daily 6 7 temperature observations occur if weather instruments are relocated, replaced, or recalibrated. 8 Changes in observation procedures or in an instrument's environment may also occur during the 9 30-year period. NOAA accounted for these anomalies in calculating the normal temperatures it published in July 2011.58 10 11 Staff verified the adjustments for anomalies in the MCI time series by direct communication with NCDC, and through Staff's own review of the daily observations. 12 13 According to NCDC, the serially-complete monthly minimum and maximum temperature data 14 sets have been adjusted to remove all inconsistencies and biases due to changes in the associated historical database. Furthermore, Staff reviewed NCDC's peer-reviewed, published paper⁵⁹ that 15 explains the meteorological and statistical soundness of the NCDC's monthly temperature series 16 17 homogenization procedure for removing documented and undocumented anomalies, and found it 18 to be statistically sound. 19 Staff uses daily temperature observations to calculate normal weather values; however, 20 NOAA's normals are monthly values. Staff adjusted the observed daily temperatures so that the monthly average temperatures calculated from these adjusted daily values are the same as the 21 NCDC's serially-complete monthly temperature time series. Staff derived the daily mean 22 23 temperature time series, daily two-day weighted mean temperatures, and normal daily 24 temperatures from these adjusted daily temperatures. ⁵⁶ Retrieved on June 27, 2016, <u>http://www.ncdc.noaa.gov/data-access/land-based-station-data/land-based-</u> datasets/climate-normals. ⁵⁷ Retrieved on June 27, 2016, http://www.ncdc.noaa.gov/data-access/land-based-station-data/land-baseddatasets/climate-normals/1981-2010-normals-data. ⁵⁸ Arguez, A., I. Durre, S. Applequist, R. S. Vose, M. F. Squires, X. Yin, R. R. Heim, Jr., and T. W. Owen, 2012: NOAA's 1981-2010 U.S. Climate Normals: An Overview. Bulletin of the American Meteorological Society, 93, 1687-1697. ⁵⁹ Menne, M.J., and C.N. Williams, Jr., (2009) Homogenization of temperature series via pairwise comparisons. J. Climate, 22, 1700-1717.

1 Weather Variables - Weather fluctuates greatly from day-to-day; therefore, the MCI temperature variables required to weather-normalize sales are the test year's actual temperatures 2 3 and the 30-year normal two-day weighted daily mean temperatures. The day's daily mean temperature is generally defined as the simple average of the day's maximum daily temperature 4 5 and minimum daily temperature. The daily, two-day weighted mean temperature is calculated using the previous day's mean daily temperature with a one-third weight and the current day's 6 mean daily temperature with a two-thirds weight,⁶⁰ 8 The calculation was done because in the KCPL service area, the prior day's weather 9 effects how electricity is used today. This is likely due to heat retention by the structures in the 10 service area. For example, if today's temperature is mild, but yesterday's temperature was hot 11 and the air conditioner was on, it is likely that the air conditioner will also be used today. 12 Similarly, if yesterday's temperature was mild and air conditioning was not used, then if today's 13 temperature is warmer, air conditioning may not be used until later in the day. Staff used the 14 MCI daily, two-day weighted mean temperature data series to normalize both class usage and 15 hourly net system loads. Calculation of "Normal Weather" - Staff used a ranking method to calculate normal 16 17 weather estimates of daily normal temperature values, ranging from the temperature that is 18 "normally" the hottest to the temperature that is "normally" the coldest, thus estimating "normal extremes." Staff ranked the two-day weighted temperatures for each year of the 30-year history 19 20 from hottest to coldest and then calculated the normal daily temperature values by averaging the ranked two-day weighted mean temperatures for each rank, irrespective of the calendar date. 21 22 The ranking process results in the normal extreme being the average of the most extreme temperatures in each year of the 30-year normals period. The second most extreme temperature 23 24 is based on the average of the second most extreme day of each year, and so forth. Staff's calculation of daily normal temperatures is not the same as NOAA's calculation of smoothed 25 daily normal temperatures because Staff calculated its normal daily temperatures based on the 26 27 rankings of the actual temperatures of the test year, and the test year temperatures do not follow 28 smooth patterns from day to day. Staff Expert/Witness: Seoung Joun Won, PhD 29

⁶⁰ To calculate the a given day's two-day weighted mean temperature (TWMT_D), the current day's (D) daily mean temperature (DMT_D) is averaged with the prior day's (D-1) daily mean temperature (DMT_{D-1}), applying a 2/3 weight on the current day and 1/3 weight on the prior day: $TWMT_D = (2/3) DMT_D + (1/3) DMT_{D-1}$.

1	b. Weather Normaliz
2	For many of the classes of service,
3	weather, specifically temperature. As the
4	cooling, air conditioning, and fans increase
5	temperature falls, the demand for addition
6	increases customers' electricity consumption
7	prevalent in KCPL's service territory; therefor
8	daily changes in temperature.
9	Staff used the load data of the test year
10	its weather normalization process. February 2
11	and September 2015 experienced temperatur
12	usage above that which would have been exp
13	through August 2015 and November 201
14	temperatures than normal, resulting in usage
15	under normal conditions. Because the tempe
16	Staff performed a weather impact analysis.
17	Staff's model and methodology conta
18	normalization process such as use of daily
19	specific responses to changes in temperature
20	parameters to account for different days o
21	The results of Staff's analysis were used
22	Michelle A. Bocklage in the normalization
23	General Service ("SGS"), Medium General S
24	and Large Power Service ("LPS") classes as ex
25	Staff Expert/Witness: Seoung Joun Won, PhD
26	c. 365-Days Adjustme
27	KCPL's customers' usage is measured,
28	as a revenue month, which is the interval of tir
29	generates invoices. Calendar months, which c
30	first day of the month and end on the last day of

lization

electricity consumption is highly responsive to the temperature increases, the demand for additional ses customers' consumption of electricity. As the nal heating, including electric space heating, also on. Electric air conditioning and space heating is fore, KCPL's electric load is linked and responds to

ear, January 1, 2015, through December 31, 2015, in 2015 experienced temperatures colder than normal, ires hotter than normal, resulting in electric energy pected under normal weather conditions. July 2015 15 through December 2015 experienced milder ge below that which would have been anticipated peratures in Staff's test year deviated from normal,

tain elements important in the class level weather load research data to determine non-linear class re with the incorporation of different base usage of the week, months of the year and holidays. by Staff witnesses Michael L. Stahlman and of revenues for the Residential ("RES"), Small Service ("MGS"), Large General Service ("LGS") explained in their direct testimony.

ient to Usage

l, and rate revenue is collected over a period known ime over which KCPL reads customers' meters and coincide with a standard calendar and begin on the of the month, and revenue months, differ from one

.

another because the periods they cover begin and end at different times. An invoice rendered for 1 2 a given revenue month may charge for usage in portions of two calendar months. Revenue 3 months take their names from the calendar month in which the customer's invoice is rendered. For example, assume a customer's meter was read and usage was determined on June 8 and then 4 again on July 8; and that the invoice was sent to the customer on July 15. The revenue month for 5 this invoice is July, even though 22 days of the usage measured for this invoice occurred from 6 June 9 through June 30 and it contained only eight days of usage in July. Staff calculated a 7 normalization adjustment to KCPL's kWh usage to reflect a calendar year's (365 days) worth 8 9 of usage.

10 The length of a revenue month is dependent upon the interval between meter readings and does not necessarily have the same number of days that occur in a given calendar month of 11 12 the same name; that is, a revenue month may have more than or less than the number of days for 13 the same-named calendar month. For the example above, the usage is for 30 days (June 9 through July 8) even though the revenue month is July which has 31 days. When revenue month 14 15 usage is totaled over the year, the resulting revenue year will include usage from the immediately 16 prior calendar year and assign usage to the next calendar year, meaning a revenue year may contain more than or less than 365 days' usage. Therefore, since the costs and expenses are 17 18 accounted over a calendar year, Staff calculates an annualization adjustment to bring the revenue year kWh into a 365-days interval. This adjustment stated in kWh is referred to as 365-Days 19 Adjustment.61 20

21 Staff calculates the 365-Days Adjustment by subtracting the weather normalized revenue 22 month kWh from the weather normalized calendar month kWh for the test year; the difference, 23 or the 365-Days Adjustment, may be either positive or negative. The 365-Days Adjustments for RES, SGS, MGS, and LGS were provided to Staff witness Michael L. Stahlman, who used the 24 25 365-Days Adjustment to adjust the revenues of the weather normalized class revenues months to the twelve months ended December 31, 2015. For 365-adjustments of LPS customers, please see 26 the large customer section of Staff witness Michelle A. Bocklage's direct testimony. 27 Staff Expert/Witness: Seoung Joun Won, PhD 28

⁶¹ Days adjustments are also known as adjustments to unbilled usage and unbilled revenues on financial statements.

1 2	4. <u>The Effect of the Weather</u> <u>Adjustment on Rate Rev</u>
3	In many of the classes of service, e
4	weather, specifically temperature. For example
5	for cooling, air conditioning, and fans inc
6	Conversely, the usage of electric space heati
7	grows cold.
8	Additionally, calendar months and re
9	periods they cover begin and end at different
10	the calendar, beginning on the first day of the
11	while revenue months, which can start and s
12	calendar month, can vary from customer to cu
13	To calculate weather-normalized and
14	that were effective for that month to weath
15	weather-normalized and 365-days adjusted
16	("RES"), Small General Service ("SGS"), Me
17	Service ("LGS") using normalized and an
18	Seoung Joun Won. For example, if the norn
19	month of September in the RES rate class, the
20	class is decreased by 3%.
21	Staff adjusted actual billing determina
22 [·]	kWh using the relationship between actual
23	annualized average usage per customer. Staf
24	usage priced in the first rate block and the
25	annualized monthly kWh to the rate blocks
26	calculation resulted in normalized usage by
27	normalized and annualized revenues by mult
28	Staff's weather normalization revenue adjust
29	normalized revenue and the Test Year revenue
30	The weather normalization process a
31	number of customers or on the fixed charges

er Normalization and 365-Days Revenue venue for Weather Sensitive Classes

electricity consumption is highly responsive to the ple, when the weather becomes warmer, the demand creases the customers' consumption of electricity. ing will increase electricity usage when the weather

evenue months differ from one another because the times. For example, calendar months coincide with he month and ending on the last day of the month stop on days other than the beginning and end of a ustomer.

365-days adjusted revenue, Staff applied the rates her normalized and 365-days adjusted usage. The usage was calculated for the Residential Service edium General Service ("MGS"), and Large General nualized kWh factors provided by Staff witness nalized and annualized kWh factor is 0.97 for the en the total actual usage for that month and that rate

nts to equal the normalized and annualized monthly average usage per customer and normalized and f also used the relationship between percentage of e second rate block to distribute normalized and for the RES, SGS, MGS, and LGS classes. This y rate block, which was then converted to total tiplying rate block usage by the appropriate rates. stment is equal to the difference between weathere.

assumes that weather has no effect on either the these customers currently pay. Weather variations
1	only affect the energy usage of each existi
2	changes revenue directly related to usage.
3	Staff Expert/Witness: Michael L. Stahlman
4	5. <u>Customer Growth</u>
5	a. Customer Growt
6	Staff adjusted the usage and revenue
7	the kWh information provided by Staff witne
8	reflect the additional usage and rate reven
9	customers taking service at the end of Jun
10	Year. ⁶² Staff separately included an adjust
11	class during the test year into the LGS class
12	since the average usage of these customers gr
13	Staff Expert/Witness: Michael L. Stahlman
14	h Adjustments for N
14	b. Aujustments for r
14	Staff adjusted the Residential, SGS,
14 15 16	Staff adjusted the Residential, SGS, customers for weather both to provide norma
14 15 16 17	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au
14 15 16 17 18	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a
14 15 16 17 18 19	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca
14 15 16 17 18 19 20	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca Staff witness Alan J. Bax for inclusion in his
14 15 16 17 18 19 20 21	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca Staff witness Alan J. Bax for inclusion in his Staff Expert/Witness: Michael L. Stahlman
14 15 16 17 18 19 20 21 21 22	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca Staff witness Alan J. Bax for inclusion in his ca Staff Expert/Witness: Michael L. Stahlman c. Customer Growth
14 15 16 17 18 19 20 21 22 23	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca Staff witness Alan J. Bax for inclusion in his ca Staff Expert/Witness: Michael L. Stahlman c. Customer Growth Staff made customer growth adjustme
14 15 16 17 18 19 20 21 20 21 22 23 24	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca Staff witness Alan J. Bax for inclusion in his ca Staff Expert/Witness: Michael L. Stahlman c. Customer Growth Staff made customer growth adjustme reflect the additional kWh sales and rate reve
14 15 16 17 18 19 20 21 22 23 24 25	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca Staff witness Alan J. Bax for inclusion in his ca Staff Expert/Witness: Michael L. Stahlman c. Customer Growth Staff made customer growth adjustme reflect the additional kWh sales and rate reve customers taking service at the end of the up
14 15 16 17 18 19 20 21 20 21 22 23 24 25 26	Staff adjusted the Residential, SGS, customers for weather both to provide norma adjusted usages were provided to the Staff au the growth adjustment, the final normalized a Seoung Joun Won for inclusion in his ca Staff witness Alan J. Bax for inclusion in his ca Staff Expert/Witness: Michael L. Stahlman c. Customer Growth Staff made customer growth adjustmer reflect the additional kWh sales and rate reve customers taking service at the end of the up the entire test year. Staff calculated customer

⁶³ Response to Staff Data Request No. 0236.

ing customer and, thus, weather normalization only

th in Usage

through June 30, 2016, for customer growth, using ess Matthew R. Young for all Missouri customers, to nues that would have occurred if the number of e 30, 2016 had existed throughout the entire Test tment for three customers who moved from the LP s.⁶³ Staff concluded that this adjustment was fitting reatly differed from the average class usage.

Non-Missouri classes

MGS, and LGS classes' usage for KCPL's Kansas ilized kWh and for the 365 days adjustment. These iditors for application to growth. Once Staff applied and annualized usage was provided to Staff witness lculations of Net System Input ("NSI"), and to determination of jurisdictional allocations.

in Rate Revenue

ents to the test year kWh sales and rate revenue to enue, which would have occurred if the number of date period (June 30, 2016) had existed throughout growth for the Residential, Small General Service,

based on the percent of energy in each block, the revenue that was calculated was slightly higher than the revenue that Staff witness Matthew R. Young had previously calculated. Staff adjusted kWh and revenues for the RES, SGS, MGS, and LGS rate classes only.

Medium General Service, and Large General Service rate classes using customer levels as of 2 June 30, 2016. For this Direct Testimony filing, Staff updated all significant elements of revenue,

3 expense, and rate base over the 12-month period ended December 31, 2015, test year level and -4 for any known and measurable changes through June 30, 2016. For Residential and General -5 6 Service (Small, Medium, and Large) retail customer groups, Staff employed the following 7 method of computing the annualized level of increased revenue from customer growth at June 30, 2016. For each customer rate group, the customer level during each month of the test 8 9 year is compared to the level as of June 30, 2016, and the monthly change in customer level is 10 computed. This growth in customers is then multiplied by the weather-normalized revenue per 11 customer experienced for that month of the test year. 12 Staff's approach assumes that the revenue pattern experienced in each month of the test 13 year will recur on a weather-normalized basis, factored up (or down) in accordance with the 14 growth (or decrease) in customer numbers at June 30, 2016.

15 The only retail customer rate group for which this approach is not taken is the Large 16 Power Service customers. With respect to Large Power Service customers, energy consumption 17 and revenue patterns vary significantly across this group of customers, making it necessary to 18 examine the history of each customer on an individual basis, and to adjust the test year revenue 19 level accordingly. Staff witness Michelle A. Bocklage addresses the Large Power Service revenue annualization. Staff's customer growth adjustment to test year revenues for all retail 20 customer groups combines the results of the analysis described above for Residential, General 21 Service, and Large Power Service customers in order to provide the annualized level as of 22 23 June 30, 2016. The retail customer growth adjustment other than Large Power Service is reflected in the Staff Accounting Schedule 9 as Adjustment Rev-2.6. 24 25 Staff Expert/Witness: Matthew R. Young

26	B. Large Power Service ("LPS") A
27	Staff determined annualized and norm
28	class, adjusted for rate switchers, on an individ
29	December 31, 2015. There were 74 customers
30	year. Four customers left the LPS rate class ar

djustments

alized test year usage and revenues for the LPS dual customer basis from January 1, 2015 through s in the LPS rate class at the beginning of the test nd two new customers were added to the LPS rate

1	class. This resulted in Staff analyzing the				
2	usage for the entire test year period.				
3	Each LPS customer uses significant a				
4	in electric use and load factor; therefore, the				
5	individual customer account basis. LPS class				
6	decline in kWh sales and rate revenues due				
7	existing customers leaving, and load growth				
8	the end of December 2015.				
9	Staff Expert/Witness: Michelle A. Bocklage				
10	C. Transmission Revenue-FERC				
11	KCPL books transmission revenue to				
12	SPP on the following SPP tariff schedules:				
13	Schedule 2: Revenues rela				
14	to the transmission system				
15	Schedule 7: Revenues relat				
16	Schedule 8: Revenues related				
17	Schedule 9: Revenue relate				
18	Schedule 11: Revenues relation				
19	Although KCPL receives revenues from S				
20	a significant percentage of the transmission				
21	non-firm point-to-point transmission and base				
22	case, KCPL made an adjustment to reduce t				
23	authorized FERC ROE of 11.1% and KCPL's				
24	to this adjustment as the wholesale revent				
25	adjustment is addressed below.				
26	Staff analyzed KCPL's transmission a				
27	and reviewed KCPL's proposed wholesale r				
28	level of transmission revenues based on the				
29	reflected on Schedule 10 of Staff's Accounting				

usage history of 68 LPS rate class customers with

amounts of electricity, and the class is heterogeneous he class sales and revenues were annualized on an ss revenues were also annualized for major growth or to the entrance of the two new customers, the four n or decline of specific existing customers active at

Account 456

FERC Account 456. KCPL receives revenues from

lated to reactive supply for generators connected

ted to firm point-to-point transmission

ted to non-firm point-to-point transmission

ed to network integrated transmission

lated to the base plan transmission upgrades

SPP based on all of the schedules listed above, revenues received from SPP are from firm and e plan transmission activities. In its updated direct transmission revenue for the difference in KCPL's s proposed ROE in this case of 9.9%. KCPL refers ue adjustment. Staff's recommendation for this

revenue for the period of 2009 through July 2016, evenue adjustment. Staff included an annualized e 12 month period ending June 30, 2016 and is ng Schedules, Adjustment Rev-24.1.

During its analysis of transmission revenue, Staff compared KCPL's historical transmission revenues to its transmission expense. KCPL's transmission revenue for the 12-month period ended December 31, 2015 ** ** since 2009. The following chart reflects KCPL's historical transmission expense and revenues for the period of 2009-2015: **

		· · · · · · · · · · · · · · · · · · ·	in maar alaalaa dagaala ay kasal Coyooyaa
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14 15

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4 5

7 As mentioned above, Staff reviewed KCPL's adjustment to reduce transmission revenues for the 8 difference in KCPL's authorized FERC ROE of 11.1% and KCPL's proposed ROE in this case -9 of 9.9%. KCPL received the transmission revenues from SPP for point-to-point and base plan upgrades. The wholesale transmission revenue adjustment is calculated using the Annual 10 Transmission Revenue Requirement (ATRR) using KCPL's authorized FERC ROE of 11.1%, 12 not the 9.9% equity rate of return. The ATTR is used by SPP to allocate revenues and expenses to all transmission owners and transmission customers of SPP. The transmission owners receive allocated revenues based on the ATTR, and the transmission customers are charged for allocated costs based on the ATTR. The ATTR includes incentives such as allowing CWIP in the revenue requirement, ROE adders, etc. KCPL's authorized FERC ROE of 11.1% includes a base ROE of



10.6% and a ROE adder of 50 basis points for being a member of a regional transmission 2 organization (RTO).

3 Other SPP transmission owners submit the ATTR that may include the previously discussed incentives. KCPL will then receive its allocated share of the transmission costs that include incentives. KCPL's participation in SPP encompasses both the financial impacts of 5 KCPL's ownership of transmission assets and the financial impacts of the use of other SPP 6 7 members' transmission assets. As discussed in the Transmission Expense section of this report, 8 the financial impact of KCPL's use of other SPP members' transmission assets have resulted in a ** 9 ** in transmission expense since 2009 and as seen in the table above, the ** 10 financial impact of KCPL's ownership of transmission assets resulted in a ** in transmission revenue since 2009. Staff did not make an adjustment to reduce transmission 11 12 revenues for the difference in KCPL's authorized FERC ROE of 11.1% and its KCPL's 13 proposed ROE of 9.9% and instead reflected the financial impact of both unadjusted 14 transmission revenue and transmission expense. It is Staff's position that KCPL's participation 15 in SPP encompasses both the financial impacts of KCPL's ownership of transmission assets and the financial impacts of the use of other SPP members' transmission assets. Consequently, 16 KCPL customers are entitled to all transmission revenues that offset a part of the significant 17 18 increases in transmission expense.

19 Staff Expert/Witness: Karen Lyons

Ancillary Services D.

20

Ancillary services, also known as operating reserves, include Regulation-up, 21 22 Regulation-down, Spinning Reserve, and Supplemental Reserve services. These services support the transmission of capacity and energy while maintaining the reliability of the transmission 23 system. Regulation-up and Regulation-down maintain the balance between the generation and 24 25 the load. Spinning and Supplemental Reserve require that an energy resource, such as a power plant, must be available in the event of an outage. Prior to March 1, 2014, KCPL was part of an 26 27 Energy Imbalance Service market ("EIS") and self-designated ancillary services. On March 1, 2014, the SPP Integrated Marketplace began replacing the previous EIS market. Consequently, 28 29 KCPL now purchases ancillary service from SPP and sells the services to SPP.

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1	Staff reflected ancillary services fo
2	period in this case. Staff's adjustment is
3	Schedules, Adjustment Rev-11.4. Staff will
4	this case.
5	Staff Expert/Witness: Karen Lyons
6	E. Market to Market Sales
7	In SPP's Integrated Market, KCPL h
8	subsequently sell energy to another energy n
9	real time market and if it is determined that
10	subsequent sale is made.
11	Staff reflected KCPL's market-to-ma
12	2016, the update period in this case. Staff's
13	Accounting Schedules, Adjustment Rev-11.5
14	Up audit in this case.
15	Staff Expert/Witness: Karen Lyons
16	F. Transmission Congestion Righ
17	Transmission Congestion Rights ("TO
18	the holder to be compensated or charged for
19	two settlement locations. ⁶⁴ When transmi
20	charges from SPP for moving energy from g
21	is allocated TCRs to hedge the actual transmi
22	load. A transmission owner in SPP is an own
23	TCRs may result in a source of revenu
24	KCPL personnel and responses to Staff data
25	purchases from SPP, a situation commonly re-
26	in total, KCPL produces more electrical energ
27	Consequently, TCRs are a source of revenue.

11

⁶⁴ SPP Tariff 105.

or the 12 months ending June 30, 2016, the update s identified on Schedule 10 of Staff's Accounting Il review this adjustment during the True-Up audit in

has the opportunity to purchase energy from SPP and market. KCPL monitors the price differences in each at a transaction will be profitable, the purchase and

arket transactions for the 12 months ending June 30, 's adjustment is identified on Schedule 10 of Staff's 5. Staff will review this adjustment during the True-

hts

CR") are an energy financial instrument that entitles r congestion in the SPP Integrated Market between ission congestion occurs, KCPL incurs additional generation to load. KCPL, as a transmission owner, ission congestion charges incurred to serve its native ner of physical assets within a given service territory ue or a charge from SPP. Based on discussions with requests, KCPL sells more power into SPP than it referred to as "long-in-the-market." In other words, gy for the SPP market than it takes from this market.

1	Staff reflected TCRs for the 12 month				
2	case. Staff's adjustment is identified on				
3	Adjustment Rev-11.2. Staff will review this a				
4	Staff Expert/Witness: Karen Lyons				
5	G. Revenue Neutral Uplift				
6	The revenue neutral uplift char				
7	disbursements that are distributed by SPP to				
8	credit. As a not-for-profit organization, SI				
9	SPP will charge or credit KCPL for the rev				
10	of miscellaneous charges or credits that SF				
11	market participants.				
12	Staff reflected revenue neutral uplift cl				
13	update period in this case. Staff's adjustment				
14	Schedules, Adjustment Rev-11.3. Staff will r				
15	this case.				
16	Staff Expert/Witness: Karen Lyons				
17	H. Off-System Sales				
18	1. FERC Account 447-Sales				
19	FERC Account 447, Sales for Resale, i				
20	 firm off-syst 				
21	 non-firm off 				
22	 FERC whole 				
23	Staff Expert/Witness: Karen Lvons				
20					
24	2. <u>Firm Off-System Sales</u>				
25	During the test year ended December				
26	contracted to sell firm off-system power to the				
27	1. City of Chanute				

ths ending June 30, 2016, the update period in this Schedule 10 of Staff's Accounting Schedules, adjustment during the True-Up audit in this case.

rges are imbalances between revenues and SPP market participants as either a charge or a PP must remain revenue neutral. Consequently, venue neutral uplift charge. The charge consists PP has no other method of distributing to SPP

charges for the 12 months ending June 30, 2016, the t is identified on Schedule 9 of Staff's Accounting review this adjustment during the True-Up audit in

for Resale

.

includes three sources of revenue for KCPL: tem sales; f-system sales; and lesale sales

31, 2015 updated through June 30, 2016, KCPL

e following customers:

, Kansas ("Chanute"); and

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1	2. City of Eudora
2	3. Kansas Munic
3	Under their respective contracts, these cust
4	capacity commitment from KCPL and an
5	addition, KCPL has an agreement with GM
6	option. As a result, Staff annualized KCPL
7	capacity contracts in effect with Chanute, Eu
8	GMO as of the update period ended June 30,
9	Staff has reviewed KCPL's firm off
10	reflect the levels for the 12-month update pe
11	Rev-10.1 reflect the adjustments to firm off-s
12	Staff Expert/Witness: Karen Lyons
13	3. <u>Non-Firm Off-System Sa</u>
14	For purposes of discussing revenue
15	are sales of electricity made at times wh
16	requirements of its native load customers (ra
17	must first meet its firm sales loads, and if it l
18	sales. The difference between the revenue re
19	of the fuel used to produce the energy sold a
20	Off-system sales are made at market-based
21	generation or through electricity purchased fr
22	Since March 2014, KCPL has taken
23	generating units for dispatch through the SP
24	generating owners' generation to meet the
25	purposes of discussing revenue requirement
24	(native load), any excess generation is availal
26	
26 27	off-system sales. Off-system sales generate
26 27 28	off-system sales. Off-system sales generate Accounting Schedule 10, Adjustments Rev 1

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ra, Kansas ("Eudora")
cipal Energy Agency ("KMEA")
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tomers paid both a demand charge for the megawatt energy charge for the cost of delivered energy. In 40 to sell a specified amount of capacity at GMO's 's firm demand and energy sales based solely on the udora and KMEA (plus the capacity sales option with 2016.

f-system sales levels and adjusted test year levels to eriod ended June 30, 2016. Adjustments Rev-8.1 and -system sales levels.

<u>ales</u>

requirement calculations, non-firm off-system sales hen a utility's generation output exceeds the load te tariff customers) and firm sale customers. KCPL has excess electricity to sell, it will make off-system eceived for selling the excess generation and the cost are referred to as off-system sales margin ("OSSM"). rates. Off-system sales are made through KCPL's rom other utilities.

part in the SPP integrated market. KCPL offers its PP, and the SPP dispatches KCPL and all other SPP load requirements of the entire SPP region. For calculations, once all firm commitments are met ble to sell through the market on a non-firm basisted through the fuel model are reflected in Staff's 1.1

1	4. <u>FERC Wholesale Sales</u>
2	FERC wholesale customers are mu
3	tariff regulated by the FERC. Since the who
4	in another jurisdiction, none of the revenues
5	utility's regulated operations. Staff alloc
6	accumulated depreciation reserves, revenues
7	costs required to serve Missouri custome
8	developed by Staff witness Alan J. Bax. Th
9	demand and energy allocators developed for
10	Staff Expert/Witness: Karen Lyons
11	I. Excess Off-System Sales Marg
12	Pursuant to KCPL's Regulatory Plan
13	sales revenues, and related costs, will conti
14	purposes over the course of the Regulatory
15	any adjustment that would remove any p
16	requirement determination in any rate case du
17	In its first rate case after the Com
18	ER-2006-0314, the Commission determined
19	in KCPL's revenue requirement for off-syste
20	off-system sales margin as projected in that
21	25th percentile as a regulatory liability, but r
22	should sales fail to meet the 25th percentile.
23	for off-system sales. The Commission ord
24	for off-system sales in each of KCPL's
25	ER-2007-0291, ER-2009-0089 and ER-2010-
26	In the Non-Unanimous Stipulation and
27	ER-2009-0089, the parties agreed to the fin
28	trackers. The parties also agreed to set the
29	\$30,000,000:

inicipalities that buy electricity under a firm power nolesale customers are treated as if they were located s from these customers are included in the Missouri cates to the Missouri utility the plant-in-service, s, fuel and purchased-power costs, and maintenance ners using demand and energy allocation factors he FERC jurisdictional loads are not included in the the Missouri jurisdiction.

gin Regulatory Liability

n, KCPL agreed that off-system energy and capacity tinue to be treated "above the line" for ratemaking Plan. KCPL also agreed that it would not propose portion of its off-system sales from its revenue uring the life of the Regulatory Plan.

mission approved the Regulatory Plan, Case No. that, in setting KCPL's rates, the amount included tem sales should be the 25th percentile of non-firm proceeding, that KCPL book all amounts above the no corresponding regulatory asset would be booked This Order established the 2006 rate case tracker lered a continuation of this method of accounting

three subsequent general rate cases, Case Nos. -0355.

ad Agreement the Commission approved in Case No. al dollar amount for the 2006 and 2007 rate case 2009 rate case tracker off-system sales baseline at

Off-System Sales ("OSS") Ma for 2007 and 2008
The Signatory Parties agree jurisdictional) excess of 200 included in rates in Case No. (Missouri jurisdictional) excee amount included in rates in Ca interest (Missouri jurisdiction liability account and amortize date new rates become effecti amortization included in co unamortized balance will not b
Off-System Sales Tracker
KCP&L's OSS margins at the million, and shall be used for reflect a pro-ration, on a mo partial years consistent with the each month of 2008. All OSS \$30 million baseline. The St assert a position regarding the Company's next general rate c
Page 141 of the Commission Report and
April 12, 2011, states, "KCP&L's rates shall
sales margin as projected by KCP&L, as liste
Margins above the 40th percentile shall be ret
cases." KCPL did not realize any excess
rate case and, thus, made no related adjustment
Staff has calculated the amount of
regulatory liability from the 2000, 2007, a
Staff Frenert/Witness · Karen Ivons
Dialit Experient aness. Raten Lyons

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largins-Excess Over 25th Percentile

.

ee that the \$1,082,974 (Missouri 07 OSS margins over the amount ER-2006-0314 and the \$2,947,332 ess of 2008 OSS margins over the ase No. ER-2007-0291, together with nal), will be deferred in a regulatory ed over ten years beginning with the ive in this rate case, with one year's ost of service in this case. The be included in rate base.

* * *

ne 25th percentile shall be set at \$30 tracking purposes. Such tracker will onthly basis, of this amount for any the percent of actual OSS realized in margins will be tracked against the ignatory Parties reserve the right to appropriate definition of OSS in the case.

Order in KCPL Case No. ER-2010-0355, issued be set at the 40th percentile of non-firm off-system ed in KCP&L witness Schnitzer's Direct Testimony. eturned to ratepayers in a subsequent rate case or rate margins over the 40th percentile from the 2010 ents to its regulatory liability.

KCPL's amortization and interest related to this and 2009 rate cases and reflected the appropriate

1	J. SO ² Emissions Allowances
2	1. <u>Deferred Sales from SO²</u>
3	Since KCPL receives more SO ² er
4	U.S. Environmental Protection Agency ("I
5	operations, it may sell all or part of these sur
6	of Accounts ("USOA"), proceeds from th
7	recorded in FERC Account 254, the USC
8	purposes, amounts recorded as regulatory
9	amount in FERC Account 254, after any appr
10	Staff included in its direct case the b
11	of the update period in this case), as an o
12	Accounting Schedule 2 filed with Staff's
13	the treatment given this item in the last s
14	ER-2007-0291, ER-2009-0089, ER-2010-03
15	reflected the amortization associated with
16	Treating these SO ² emissions allowances i
17	KCPL's customers have paid for KCPL's pr
18	allowances, which KCPL is able to sell to oth
19	Staff Expert/Witness: Cary G. Featherstone
20	K. Miscellaneous Revenues
21	1. Late Payment Revenue (H
22	KCPL charges a late payment fee to c
23	Staff annualized late payment fee revenues b
24	total retail sales, both net of gross receipt tax
25	because the data from this time period represe
26	This ratio was multiplied by the Staff's annu
27	late payment fees. This is reflected in the Staf
28	Staff Expert/Witness: Matthew R. Young

² Emissions Allowances

emission allowances ("SO2 allowances") from the EPA") than it requires for its own coal-burning orplus allowances. Under the FERC Uniform System he sales of surplus SO² emissions allowances are OA regulatory liabilities account. For ratemaking liabilities reduce a utility's rate base; i.e., the net propriate adjustments, is an offset to rate base.

balance of Account 254 on June 30, 2016 (the end offset to the rate base calculation found on Staff s direct case. This approach is consistent with six KCPL rate cases: Case Nos. ER-2006-0314, 355, ER-2012-0174 and ER-2014-0370. Staff has n this regulatory liability in Adjustment E-30.1. in this manner acknowledges that, through rates, production facilities that create these SO² emissions her entities for profit.

Forfeited Discount)

customers who fail to pay bills in a timely manner. by using the ratio of late payment fees to Missouri xes ("GRT"), from June 30, 2015 to June 30, 2016 sents the most recent and most relevant information. ualized revenue, resulting in an annualized level of aff Accounting Schedule 9 as Adjustment Rev-15.2.

1	L. Other Revenue Accounts
2	Staff reviewed the amounts KCP
3	"Other Revenues," which include rent from
4	and temporary installation profit. Staff co
5	appeared to be reasonable and representation
6	respective category and, therefore, do not
7	own allocation factors to those amounts
8	jurisdictions. Staff will examine these reven
9	December 31, 2016.
10	Staff Expert/Witness: Matthew R. Young
11	M. Removal of Gross Receipts T
12	The amounts received from custome
13	year include Gross Receipts Taxes ("GRT")
14	KCPL is obligated to charge customers on
15	from its customers, it periodically remits
16	In this regard, to accurately account for k
17	necessary to remove GRT from the amou
18	remove the corresponding remittances to t
19	result, GRT should have no impact on K
20	adjustments remove GRT from test year r
21	Accounting Schedule 9, Rev-3.1, Rev-15.1 a
22	Staff Expert/Witness: Matthew R. Young
22	
23	VII. Income Statement – Expe
24	A. Fuel and Purchased Power O
25	KCPL has 4,360 megawatts of total g
26	natural gas, oil-fired generating units, and
27	made up of the following types of generation

⁶⁵ Staff Data Request No. 0057, Case No. ER-2016-0285.

PL included in its cost of service calculation for om electric property, miscellaneous service revenues oncluded the test year amounts for Other Revenues ative of an annualized level of revenue for each require adjustment. However, Staff will apply its that are common to other KCPL's operational nue accounts again during its True-Up audit through

axes from Test Year Revenues

er payments and recorded as revenues during the test). GRTs are imposed by a taxing authority for which their utility bills. After KCPL collects these taxes these amounts to the appropriate taxing authority. KCPL's actual test year retail revenues, it is both ints recorded as revenues during the test year and the taxing authority as a charge to expenses. As a CPL's final revenue requirement amount. Staff's revenues and expenses and are reflected in Staff's and E-261.1.

enses

verview

generating capacity consisting of nuclear, coal-fired, wind generation⁶⁵. KCPL's generation capacity is based on calendar year 2015 operating results:

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1					
	an a	Generation Capacity by Fuel Type	2015 Megawatts	Percentage of Generation Capacity (MW) by Fuel Type	2015 Percentage of MWHs Generated by Fuel Type
		Coal	2,584 MWs	59.3%	80%
		Nuclear	549 MWs	12.6%	16%
		Natural Gas	780 MWs	17.9%	Less than 1%
		Oil	401 MWs	9.2%	Less than 1%
		Wind	46 MWs	1%	2%
		Total	4360 MWs	100%	100%
2		Source: 2015 Shareholde	er Report- pages 8 and 23.	1	f
3	Whi	e KCPL's coal-fired ge	enerating units make up	59% of its total gener	ating fleet, those u
4	prod	uce 80% of total system	n load requirements. N	Nuclear generating capa	city makes up 12%
5	total	KCPL capacity, but it	produces 17% of tota	l generation. Natural g	gas capacity makes
6	18%	of total capacity this fu	el type makes up less	than 1% of KCPL's tot	al generation based
7	2015	actual megawatt hours	of generation.		
8					
9					
10					
11					
12					
13	darma da ana				
14	time and the second				
15	- Property and the second second				
16					
17					
18					
19					
20	contin	nued on next page			

units % of s up ed on

		2013	-2013 (C)	LActuar	Generatic		u)		
Generation	2015 A MMI	Actual BTU	%	2014 MM	Actual IBTU	%	2013 / MM	Actual IBTU	
Coal	**	**	76.94%	**	**	79.21%	**	**	8
Nuclear	**	**	21.89%	**	**	19.81%	**	**	1
Natural Gas	**	**	.87%	**	**	.73%	**	**	
Oil	**	**	.29%	**	**	.25%	**	**	
Total	**	**	100%	**	**	100%	**	**	
99% of total g Staff Expert/V B. Staff of For a twelve n Staff of imulation of	generation, Vitness: K Fuel and I estimates I nonth perio uses the PI a utility's	, with oil <i>Caren Lyc</i> P urchase KCPL's od ending LEXOS p generati	and natur ons ed Power variable f g June 30, production on, power	eal gas ma Expense Quel and p 2016. In cost moder purchase	king 1% o urchased lel to perf	of generati power exp form an ho wer sales.	on. pense to b our-by-hou Staff us	be \$212,0 ur chrono es this m	l46 loş od
letermine the	annual v	ariable o	cost of fu	el, net pu	irchased j	ower cos	t, and fue	el consur	np
	s are supp	lied to A	uditing D	epartment	t Staff wh	o use this	input in th	ie annual	iza
hese amount									



1	energy in the Integrated Marketplace dictate
2	amount of energy sold by KCPL.
3	The model operates in a chronolog
4	before moving to the next hour. It will so
5	manner based upon fuel cost and purchased
6	operational constraints. This model simula
7	units and purchase power in order to meet the
8	Staff calculated the following inputs
9	power contract specifications, hourly net syst
10	outages. Staff relied on KCPL's responses
11	with 4 CSR 240-3.190 for the characteristics
12	primary fuel type, ramp rates, startup cost
13	Information from KCPL's firm wholesale lo
14	are also inputs to the model.
15	Staff Expert/Witness: Charles T. Poston, PE
16	1. <u>Planned and Forced Out</u>
16 17	 <u>Planned and Forced Out</u> Planned and forced outages are in
16 17 18	 Planned and Forced Out Planned and forced outages are in In particular, forced outages are unplanned a
16 17 18 19	 Planned and Forced Out Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du
16 17 18 19 20	 <u>Planned and Forced Out</u> Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values
16 17 18 19 20 21	 <u>Planned and Forced Out</u> Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage information
16 17 18 19 20 21 22	 <u>Planned and Forced Out</u> Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage informat and from information supplied by KCPL to compare the supplied of the supplication of the supplication of the supplied of the supplication of the supersupplication of the supplication of the sup
16 17 18 19 20 21 22 23	1. <u>Planned and Forced Out</u> Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage informat and from information supplied by KCPL to co <i>Staff Expert/Witness: Charles T. Poston, PE</i>
16 17 18 19 20 21 22 23	1. <u>Planned and Forced Out</u> Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage informat and from information supplied by KCPL to co <i>Staff Expert/Witness: Charles T. Poston, PE</i>
16 17 18 19 20 21 22 23 23	 Planned and Forced Out Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage informat and from information supplied by KCPL to co Staff Expert/Witness: Charles T. Poston, PE Contract Prices and Energy
16 17 18 19 20 21 22 23 24 24 25	 Planned and Forced Out Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage informat and from information supplied by KCPL to co Staff Expert/Witness: Charles T. Poston, PE <u>Contract Prices and Ener</u> Utilities may enter into contracts for
16 17 18 19 20 21 22 23 24 25 26	 Planned and Forced Out Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage informat and from information supplied by KCPL to co Staff Expert/Witness: Charles T. Poston, PE <u>Contract Prices and Ener</u> Utilities may enter into contracts for and/or a maximum amount of hourly energy
16 17 18 19 20 21 22 23 24 25 26 27	 Planned and Forced Out Planned and forced outages are in In particular, forced outages are unplanned a variability, average yearly planned outage du KCPL generating units. The average values of data, when available. The outage informat and from information supplied by KCPL to co Staff Expert/Witness: Charles T. Poston, PE Contract Prices and Ener Utilities may enter into contracts for and/or a maximum amount of hourly energy of from these contracts are based on either a

es the dispatch of KCPL generation resources and the

gical fashion, meeting each hour's energy demand schedule generating units to dispatch in a least cost power cost while taking into account generation unit ates the way a utility should dispatch its generating ne net system load in a least cost manner.

s for use in the model: fuel prices, firm purchased stem input, unit capacity, and unit planned and forced to data requests and data KCPL supplied to comply of each generating unit; for example: unit heat rate, ts, and fixed operating and maintenance expense. oads and firm purchased power contracts and prices

tages

ifrequent in occurrence and variable in duration. and can happen at any time. In order to capture this lurations and forced outage rates were calculated for for each generating unit were based on seven years tion was taken from responses to Staff data requests omply with 4 CSR 240-3.190.

rgy

a specific amount of energy (megawatts or "MW") (megawatt-hours or "MWh"). Prices for the energy a fixed contract price or the generating costs of to this case are the Cimmaron II, Spearville 3, Slate

Creek, Waverly, and Osborn wind power contracts and the Central Nebraska Public Power and 2 Irrigation District ("CNPPID") hydro power contract. 3 For the Cimmaron II, Spearville 3, and CNPPID contracts, Staff developed hourly energy production by averaging the historic hourly generation records that were supplied by KCPL. In the case of the Slate Creek and Waverly contracts, less than one year of actual production -5 statistics was available. As a result, Staff adopted the estimated generation levels used by KCPL. 6 7 The Osborn facility has been excluded from Staff's calculations for fuel and purchased power costs, because as of June 30, 2016, the Osborn wind farm was not yet supplying energy to 8 9 KCPL. Energy prices (\$/MWh) were obtained from the wind and hydro power contracts 10 provided by KCPL. 11 Staff Expert/Witness: Charles T. Poston, PE 12 3. Fixed Costs 13 Fuel and purchased power costs that do not vary directly with fuel burned were not included in Staff's fuel model, but were determined separately. The non-variable fuel costs that 14

15 were determined separately and included in fuel expense are typically referred to as 16 "fuel adders." These types of costs include non-wage fuel handling, dust suppressant, and freeze 17 proofing coal for transportation from the mines to power plants. The non-variable purchased 18 power costs not included in Staff's fuel model are commonly referred to as "capacity charges" or 19 "demand charges" and are annualized separately from purchased power energy costs. Staff Expert/Witness: Karen Lyons 20

4. Fixed Adders

21

22 The costs of fuel adders are determined separately and are added to the level of fuel 23 expense determined by the model to determine overall fuel expense. Costs added to coal 24 expense include unit train lease payments and unit train rail car maintenance costs. Fuel adders 25 for natural gas include transportation charges and hedging costs. A significant percentage of 26 natural gas transportation charges is fixed and under contract. Other fuel adder expenses 27 incurred by KCPL include ammonia, lime, limestone, molten sulfur, and powder activated 28 carbon ("PAC").

For natural gas fixed transportation costs and additives such as limestone and 1 ammonia, Staff used the actual expenses for the 12-months ending June 30, 2016. Staff's 2 3 adjustments are identified on Schedule 10 of Staff's Accounting Schedules, Adjustments E-7.3, E-12.1, E-12.2, E-13.1, E-102.1, and E-100.1. Staff will re-examine these expenses at the time 4 of Staff's true-up, and update any costs as necessary. 5 Staff Expert/Witness: Karen Lyons 6

5. Purchased Power - Energy

7

16

8 Staff Adjustment E-115.1 annualizes purchased power energy charges based on Staff's 9 fuel model results. These purchased power energy charges represent the energy KCPL purchases 10 on the spot market and through contracts to meet the system load requirements of its retail electric customers. Staff witness Erin L. Maloney of the Engineering Analysis Section of the 11 12 Operational Analysis Department is responsible for determining Staff's recommended price of 13 purchased power and provides the results to Staff witness Charles T. Poston of the same Department, who includes the price as an input into Staff's fuel model. 14 15 Staff Expert/Witness: Karen Lyons

6. Purchased Power - Capacity Charges

17 Capacity charges, commonly referred to as "demand charges," represent fixed amounts that KCPL either pays for the "right" to purchase power, also known as capacity purchases, or is 18 19 paid by another entity for the "right" to purchase power from KCPL. In the case of purchased power, the selling entity reserves generating capacity for KCPL to purchase when the electricity 20 21 is needed under terms of the purchased power agreements. KCPL contracts this power with 22 various entities and pays a fixed component for the reserve capacity and an energy component 23 for any energy consumed. Generally, there is also an amount for operational and maintenance costs charged for the usage of energy. The fixed component is paid by KCPL as a demand 24 25 charge, generally on a monthly basis, regardless of the level of power actually purchased. This 26 amount is for the "right" to purchase the power in much the same way that natural gas utilities 27 purchase the reservation of capacity from pipelines through reservation payments. The demand 28 charges relate to the fixed expenses of operating a generating facility.

1	The demand charges paid to KCPL b
2	"right" to purchased power from KCPL, are
3	capacity sales are addressed in the revenue po
4	Staff annualizes purchased power der
5	currently in effect. These charges represent
6	related to the fixed costs of reserving capacity
7	determined that KCPL incurred costs for one
8	before the update period of June 30, 2010
9	adjustment E-116.1 eliminates the costs KCPI
10	Staff Expert/Witness: Karen Lyons
11	7. <u>Border Customers</u>
12	Border customers are customers who
13	the customer will pay its bill, but are physical
14	words, there are KCPL customers current
15	customers of other utilities that are being serv
16	served by another utility, KCPL must pay th
17	The energy supplied by another utility for KC
18	a reduction to the net system input ("NSI") an
19	by another utility are included in Staff's retai
20	When another utility's customers are served b
21	cost of serving those customers. The energy s
22	and the related fuel costs are included in KCPI
23	To ensure that all border customer co
24	service, an additional adjustment must be m
25	reimburse other utilities for the costs to serve
26	payment KCPL receives from other utilities
27	sales.
28	Staff reflected KCPL border customer
29	cut-off period, twelve months ending June
30	customers is reflected on Schedule 10 of Staff'
31	Staff Expert/Witness: Karen Lyons

by other generating entities, giving those entities the known as capacity sales. The demand charges for ortion of this Cost of Service Report.

mand charges based on existing capacity contracts amounts that are paid under capacity agreements y. Upon review of KCPL's capacity contracts, Staff contract during the test year and the contract ended 6. Since the contract was not renewed, Staff's L incurred during the test year.

are in the service territory of one utility to which lly served by another utility's power lines. In other tly being served by another utility's power and ved by KCPL's power. When KCPL customers are ne utility for the costs to serve KCPL's customers. CPL's customers is included in Staff's fuel model as nd the revenues for KCPL customers that are served il revenue and included in KCPL's cost of service. by KCPL, the utility must reimburse KCPL for the supplied by KCPL is included in Staff's fuel model L's cost of service.

osts and revenues are included in KCPL's cost of nade to include (1) the payment KCPL makes to KCPL's customers – purchased power, and (2) the for the costs to serve those utilities' customers --

rs that includes purchased power and sales for the 30, 2016. Staff's adjustment for KCPL border 's Accounting Schedules, Adjustment E-115.1.

1	8. <u>Variable Costs</u>
2	a. Fuel Prices
3	Staff computed fuel expense using price
4	of June 30, 2016. Staff included fuel pr
5	including transportation charges in the fuel US
6	(natural gas).
7	Staff Expert/Witness: Karen Lyons
8	b. Coal Prices
9	Staff determined coal prices by genera
10	KCPL's coal purchase (supply) and coal transp
11	coal prices reflect KCPL's actual contracted co
12	sulfur premiums or discounts) in effect on June
13	Staff Expert/Witness: Karen Lyons
14	c. Natural Gas Prices
15	As an input to its production cost mo
16	prices calculated using 12-month weighted aver
17	gas through the end of the known and measura
18	fixed transportation costs are annualized and no
19	Staff Expert/Witness: Karen Lyons
20	d. Nuclear Fuel Prices
21	KCPL owns 47% of Wolf Creek. KCPl
22	it to 549 megawatts ⁶⁶ of the plant's capacity.
23	upon KCPL's monthly Report 25 - the Fuel Rep
24	fuel price decreased and, based on discussion
25	attributable to the discontinuance of the nuc
26	proposed nuclear fuel price is based on the mos
27	Staff Expert/Witness: Karen Lyons
-	

⁶⁶ KCPL response to Staff Data Request No. 0057 in Case No. ER-2016-0285.

prices and quantities actually incurred by KCPL as prices for nuclear, coal, natural gas, and oil, USOA accounts 501 (coal), 518 (nuclear), and 547

eration facility based on a review and analysis of sportation (freight) contracts. Staff's recommended coal purchase and transportation prices (excluding ne 30, 2016.

.

nodel, Staff used twelve (12) monthly natural gas verages of KCPL's actual commodity cost of natural rable period of June 30, 2016. KCPL's natural gas normalized separately as a part of fuel adders.

es

CPL's 47% ownership interest in Wolf Creek entitles In determining its nuclear fuel price, Staff relied eport. Beginning in May 2014 the monthly nuclear ons with KCPL personnel, the decrease in price is uclear waste disposal fee in May 2014. Staff's ost current fuel price as of June 30, 2016.

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1	e. Oil Prices
2	Staff used the actual cost KCPL paid
3	variable fuel oil expense. KCPL burns fu
4	generating units or, in some instances, for f
5	KCPL's Northeast units, which see very limi
6	infrequently. Historically, the limited num
7	employ any meaningful type of averaging n
8	prices is also not possible because KCPL do
9	year. For its direct filed case, Staff recomme
10	of June 30, 2016, to input into the fuel n
11	purchased power expense on a going forward
12	Staff Expert/Witness: Karen Lyons

13

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21 22

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24 25

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9. Purchased Power Prices

14 Staff analyzed hourly Southwest Power Pool Integrated Market Day Ahead market prices ("market prices") from the beginning of market operations on March 3, 2014 to the end of 15 July 2016. Since the onset of the two-day markets in Missouri, Staff has used a three-year peak 16 and off-peak average of market prices (when data is available) to adjust for extreme price points 17 caused by anything from weather, new market operation, hurricanes, economic down turns, and 18 flooding. Staff calculated the average monthly prices as well as peak and off-peak prices for each month in this period. Early market prices saw extreme highs and huge fluctuations with prices steadily dropping through 2015 and 2016. The three year average of market prices is much higher than the average market prices in 2015 and 2016. For Staff's direct case, the Company's market prices, with an adjustment to reflect the 2016 market downturn, have been adopted as a reasonable normalized forecast of market prices. Staff will continue to review market prices through the true-up period and will update prices as necessary Staff Expert/Witness: Erin L. Maloney, PE

for its most recent fuel oil purchases to determine el oil mainly as a start-up fuel for the coal-fired lame stabilization. Oil is a primary fuel source at ited run time. As a result, KCPL purchases fuel oil ber of purchases of fuel oil makes it difficult to nethod. An accurate historical analysis of fuel oil bes not make purchases during the majority of the nds KCPL's most recent fuel oil purchase prices as nodel for determining KCPL's variable fuel and basis.

1	10. Normalized Net System
2	Hourly net system input is the hourly
3	demands of a utility's customers; the input i
4	the electricity requirement of the utility's gen
5	Due to the presence of significant air
6	service territory, the magnitude and shape of
7	temperatures. To normalize net system input
8	provided by Staff witness Seoung Joun Wor
9	the test year, the twelve months ending
10	temperatures. Therefore, to reflect normal
11	were each adjusted independently, but using t
12	Daily average load is the summati
13	twenty-four hours. Daily peak is the maxir
14	regression models to estimate both (1) a bas
15	time as non-weather factors, and (2) a w
16	response to daily fluctuations in weather for
17	regression models are necessary because dail
18	peak loads. The models' regression paramet
19	actual cooling and heating measures, are u
20	average and peak loads for each day. The ad
21	the actual average and to the peak loads of eac
22	daily peak and average loads to each individ
23	hourly loads for the year being normalized. A
24	a function of the actual peak and average l
25	weather-normalized daily peak and average
26	calculate weather-normalized hourly loads for
27	This process includes many checks a
28	workpapers. The Staff analyst is required to e

⁶⁷ A unitized load curve is a set of 24 hourly loads of a given day calculated by subtracting the average daily load from each hourly load, then dividing by the difference between the peak and the average so that the average of the calculated hourly loads is 0 and the peak is 1.

<u>Input</u>

electric supply necessary to meet the hourly energy is net of (i.e., does not include) station use, which is erating plants.

conditioning and electric space heating in KCPL's KCPL's net system input is directly related to daily ut, Staff used actual and normal daily temperatures in its analysis. The actual daily temperatures for December 31, 2015, differed from normal daily weather, daily peak and average net system loads the same methodology.

ion of the hourly load for the day divided by mum hourly load for the day. Staff uses separate se component, which is allowed to fluctuate across eather-sensitive component, which measures the daily average loads and peak loads. Independent ly average loads respond differently to weather than ters, along with the difference between normal and sed to calculate weather adjustments to both the djustments for each day are added, respectively, to ch day. In order to allocate the weather-normalized dual hour of the year, Staff begins with the actual A unitized load curve⁶⁷ is calculated for each day as loads for that day. Staff uses the corresponding loads, along with the unitized load curves, to each hour of the year.

and balances, which are included in Staff's direct examine the data at several points in the process, to

1	further ensure accuracy. For more informatic
2	document "Weather Normalization of Electric
3	After the weather-normalizing and ann
4	is completed, weather-normalized wholesale
5	hourly net system loads that equals the adjus
6	with Staff's normalized revenues.
7	Staff applies a factor to each hour of the
8	sum of the hourly net-system loads that equals
9	revenues. Once completed, the hourly normal
10	fuel and purchased power expense as explai
11	testimony. Staff witness Alan J. Bax also used
12	developing Staff's jurisdictional energy allocat
13	Staff Expert/Witness: Seoung Joun Won, PhD
14	11. <u>System Energy Losses</u>
15	System energy losses largely occur
16	transmission and distribution lines, etc.) betwe
17	meters. In addition, small fractional amounts of
18	are included in Staff's calculation of system end
19	The basis for calculating system energy
20	sum of Retail Sales, Wholesale Sales, Compa
21	expressed mathematically as:
22	NSI = Retail Sales + Wholesale Sal
23	NSI, Retail Sales, Wholesale Sales, and Comp
24	energy losses may be calculated as follows:
25	System Energy Losses = NSI – (Re
	68 Weather Manuality of Phanet Andrew Provider
1	weather Normalization of Electric Loads, Part A: Hou

lourly Net System Loads" (November 28, 1990), written by Dr. Michael Proctor, Manager of the Economic Analysis Department.

ation, the process is described in greater detail in the ric Loads, Part A: Hourly Net System Loads."68

annualizing usage for KCPL's retail customer classes le usage is added to produce an annual sum of the justed test year usage, plus losses, and is consistent

the weather-normalized loads to produce an annual als the usage, plus losses, consistent with normalized nalized system loads were used in developing Staff's lained in Staff witness Charles T. Poston's, direct sed the annual requirement of the net system load in cator, as explained in his testimony.

ur in the electrical equipment (e.g., transformers, ween KCPL's generating sources and the customers' s of energy, either stolen (diversion) or not metered, energy losses.

rgy losses is that Net System Input (NSI) equals the pany Use and System Energy Losses. This can be

Sales + Company Use + System Energy Losses

mpany Use are known quantities; therefore, system

Retail Sales + Wholesale Sales + Company Use)

Page 88

1	The system energy loss percentage is the ratio
2	System Energy Loss Percentage =
3	NSI is also equal to the sum of KCPL's net g
4	the difference between off-system purchases
5	energy output of each generating plant min
6	production of electricity at each plant. The
7	metered continuously. The net of off-system
8	also similarly monitored.
9	Staff has calculated a system energy l
10	experienced during calendar year 2015, the te
11	will be used by Staff witness Seoung Joun
12	included in Staff's fuel model.
13	Staff Expert/Witness: Alan J. Bax
14	12. Loss Study as it Applies to
15	KCPL supplied Staff with a Loss Stud
16	its last rate case (Case No. ER-2014-0370). Th
17	during calendar year 2013. Therefore, KCPI
18	4 CSR 240-20.090(9) ⁶⁹ that a current loss stu
19	continue a Rate Adjustment Mechanism, such
20	current case.
21	Utilizing information included in the a
22	following voltage adjustment factors:
23	Transmission – 1.0195
24	Primary – 1.0451
25	Secondary – 1.0707
	60

of system energy losses to NSI multiplied by 100: = (System Energy Losses ÷ NSI) X 100

generation and net interchange. Net interchange is and off-system sales. Net generation is the total us the energy consumed internally to enable the output of each generating plant is monitored and purchases and off-system sales (Net Interchange) is

loss factor of 0.0589 based on an analysis of data est year of this case. This system energy loss factor Won in the development of hourly loads that are

the Fuel Adjustment Clause

dy in its response to Staff Data Request No. 172 in his loss study is an analysis based on data collected L is in compliance with the rule requirement of udy be provided in conjunction with a request to ch as KCPL's request to continue its FAC in the

aforementioned loss study, Staff has calculated the

months prior to the general rate proceeding in which it requests its initial RAM. The electric utility shall conduct a Missouri jurisdictional loss study no less often than every four (4) years thereafter, on a schedule that permits the

⁶⁹ 4 CSR 240-20.090(9) Rate Design of the RAM. The design of the RAM rates shall reflect differences in losses incurred in the delivery of electricity at different voltage levels for the electric utility's different rate classes. Therefore, the electric utility shall conduct a Missouri jurisdictional system loss study within twenty-four (24) study to be used in the general rate proceeding necessary for the electric utility to continue to utilize a RAM.

1	These voltage adjustment factors ad
2	delivery of electricity from the generation levels
3	factors will be utilized in Staff's determinatio
4	the individual voltage service classification of
5	tariff, if the Commission authorizes KCPL to
6	Staff Expert/Witness: Alan J. Bax
7	13. <u>Surface Transportation B</u>
8	On October 12, 2005, KCPL filed a ra
9	Board ("STB") against Union Pacific Railroa
10	coal from Wyoming's Powder River Basin ("I
11	excessive.
12	On May 15, 2008, the STB ruled in far
13	to KCPL and pay KCPL reparations for prior
14	rate reductions and reparations to be \$30 million
15	During the period between the ST
16	KCPL filed two general rate cases before this
17	No. ER-2007-0291. In Case No. ER-2006-031
18	actual STB litigation costs as a regulatory
19	beginning in January 2007. Staff and KCPL a
20	first to be applied as an offset to any existing
21	asset, with the remainder being applied to off
22	The Commission in its Report and Order in th
23	and KCPL "appears just and reasonable".
24	ER-2007-0291, Staff and KCPL continued the
25	Missouri jurisdictional portion of KCPL's STB
26	In the KCPL rate case subsequent to
27	KCPL calculated a rate recovery for STB costs
28	costs of \$1.38 million. KCPL distributed
29	contributed funds to the cost of prosecuting
30	Independence (through its capacity contract
2	

ccount for the energy losses experienced in the vel to the retail customer (secondary level). These on of Fuel Adjustment Rates ("FAR"), applicable to of a particular customer in the corresponding FAC continue its FAC tariff.

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loard Reparation Amortization

rate complaint case with the Surface Transportation ad ("UPRR") alleging UPRR's charges to transport PRB") to KCPL's Montrose plant in Missouri were

wor of KCPL and ordered UPRR to reduce its rates overcharges. The STB estimated the value of the on.

TB rate complaint case and the final decision, is Commission, Case No. ER-2006-0314 and Case 4, Staff and KCPL, by agreement, treated KCPL's asset amortized to expense over five (5) years also agreed that proceeds from the complaint were g balance of the STB case costs in the regulatory set fuel costs as determined in future proceedings. hat case observed that the agreement between Staff In KCPL's next Missouri rate case, Case No.

is same treatment of deferring and amortizing the litigation costs.

the 2008 STB ruling, Case No. ER-2009-0089, ts and reparations from UPRR in excess of its STB this excess to the three entities that it claimed the STB case. These entities were the City of with KCPL), Missouri regulated customers, and

1	Kansas regulated customers. In addition, KC
2	customers who apparently did not contribute
3	KCPL updated this calculation in the
4	included additional reparations received from
5	KCPL's work paper, with two corrections.
6	First, KCPL failed to include all
7	ER-2007-0291 rates in the total amount of
8	Staff added \$143,945, the amount KCPL
9	September 2008. This amount was earmarke
10	by KCPL in its calculation. Second, since KC
11	STB rate case recovery, Staff reallocated the
12	customers by using the appropriate Missouri-
13	The Non-Unanimous Stipulation and
14	by Commission Order effective June 23, 200
15	of STB litigation proceeds over un-recovered
16	in a regulatory liability account and amortize
17	rates become effective in this case, with one
18	this case. The unamortized balance will not
19	September 1, 2009 and are still being collected
20	the appropriate amortization level; therefore, i
21	Staff Expert/Witness: Karen Lyons
22	C. Payroll, Payroll Related Benefi
23	1. Payroll Costs
24	Staff examined the payroll costs
25	annualized payroll costs using ratios derived f
26	during the test year. Staff recommends ann
27	employee levels as of the end of the update p
28	Creek payroll. Because KCPL is the only
29	employees perform all services for Great P
30	KCPL's non-regulated enterprises. Since KC
1	- *

CPL allocated a portion of the excess to its wholesale funds to the cost of the STB complaint case.

2009 rate case based on corrected information and m UPRR. Staff used the calculation methodology in

of the funds that were included in Case No. the STB costs contributed by Missouri ratepayers. collected in rates from January 2008 through ed for STB case expense recovery, but was excluded CPL's wholesale customers did not contribute to the amounts credited to Missouri and Kansas regulated Kansas allocation percentage.

Agreement in Case No. ER-2009-0089, approved 9, states in part, "the Missouri jurisdictional excess STB litigation costs of \$1,017,593 will be deferred ed over ten (10) years beginning with the date new year's amortization included in cost of service in be included in rate base." Rates became effective ed. The test year amount on KCPL's books reflects no adjustment was necessary for this case.

fits including 401k Benefit Costs

of KCPL and recommends allocating KCPL's from how KCPL recorded its allocated payroll costs nualizing KCPL's payroll based on KCPL's actual period, June 30, 2016, plus directly assigning Wolf Great Plains entity that has employees, KCPL lains, KCPL, and GMO, and certain portions of PL employees perform all services for Great Plains

and its subsidiaries, allocating KCPL's payroll costs is necessary to assign the proper amounts of 1 payroll costs to each of the Great Plains entities, including KCPL. Staff reviewed KCPL's 2 historical allocation of its payroll costs to each of these entities then allocated KCPL's 3 annualized payroll based on this historical allocation. Staff's annualized payroll includes base wages, overtime wages, differential wages, and premium pay paid to KCPL's union employees 5 based on union contracts, as well as an annualized level of payroll for the Wolf Creek generation 6 7 facility (Wolf Creek payroll is discussed further below). 8 Staff annualized KCPL's payroll costs in this case based on the actual number of KCPL employees as of June 30, 2016, the end of the update period. Each individual employee's current 9 10 hourly wage or salary was annualized to compute an annual total payroll cost for that KCPL employee. After KCPL's base payroll was annualized, payroll costs linked to employees of 12 KCPL's jointly-owned generation facilities were allocated based upon a three-year average of actual joint-owner billings. The following table shows KCPL's ownership share of jointly owned plant facilities:

> Power Plant KCPL' La Cygne 1 La Cygne 2 latan 1 Iatan 2

16

4

11

13

14

15

After removing payroll allocated to joint-owners, Staff allocated KCPL's remaining base payroll 17 costs among KCPL and its affiliates. To do that, Staff used allocation ratios based on the actual 18 payroll allocation that occurred during the 12-month period ended June 30, 2016. To annualize 19 20 KCPL's overtime wages, Staff multiplied the last-known composite hourly rate for overtime by a 21 three-year average (2013-2015) of KCPL-only overtime hours as the volume of overtime hours has fluctuated in recent years. To annualize wages for premium pay, Staff included the actual 22 23 expense recorded during the 12-month period ended June 30, 2016 as costs have been increasing. To annualize wages for temporary employees, Staff included a three-year average of expense as 24 costs have been fluctuating. The sum of these four types of payroll costs (base, overtime, 25 premium, and temporary) is Staff's annualized KCPL payroll. 26

s Ownership	Other Ownership
Share	Shares
50%	50%
50%	50%
70%	30%
55%	45%

1	After allocating the KCPL's annuali
2	further allocated the KCPL-only payroll co
3	Expense and Non-O&M Expense in order
4	Typically, non-O&M expense relates to co
5	with non-utility functions of the company (b
6	revenue requirement calculations for KCPL a
7	application of an O&M expense ratio. An
8	revealed that the actual capitalization ratios h
9	year average of historical O&M expense rat
10	charge to KCPL's O&M expense.
11	Staff did not adjust payroll expense
12	programs. DSIM costs, including payroll
13	witness Dana E. Eaves in this report.
14	The Wolf Creek generating station is
15	Operating Company ("WCNOC"), which ch
16	share (based on 47% KCPL plant ownership
17	WCNOC directly assigns the appropriate por
18	the only Great Plains entity that has an owner
19	is no need to allocate the Wolf Creek payrol
20	affiliates. For Wolf Creek base payroll, Stat
21	have been increasing. For Wolf Creek over
22	WCNOC assigned to KCPL for calendar yea
23	downward over the four-year period from 201
24	After allocating KCPL's total payrol
25	distributed its resulting payroll adjustment
26	distributed its actual payroll costs among thos
27	2015. The following are the adjustments Staf
28	these FERC accounts:
29	Adjustments E-4.1, E-7.1, E-15.1, E-1
30	E-47.1, E-54.1, E-58.1, E-59.1, E-61.1, E-62.
31	E-103.1, E-104.1, E-105.1, E-108.1, E-109.

lized payroll to Great Plains, KPCL, and GMO, Staff costs between Operations & Maintenance ("O&M") er to calculate the ongoing O&M payroll expense. onstruction or other capital projects (capital), along below-the-line). The amounts that are included in the are the O&M levels of total payroll expense after the An examination of the historical capitalized payroll have fluctuated from year to year. Staff used a threeatios to calculate the proper level of payroll costs to

in this case for payroll related to KCPL's DSIM and payroll related costs, are discussed by Staff

s managed by a separate entity, Wolf Creek Nuclear harges Wolf Creek payroll directly to KCPL for its p) of the total Wolf Creek payroll expenses. Since ortion of Wolf Creek payroll to KCPL, and KCPL is ership share of Wolf Creek as of June 30, 2016, there oll costs WCNOC assigned KCPL between KCPL's aff included the last known annual amount, as costs ertime, Staff included the amount of overtime cost ar 2015, as Wolf Creek overtime costs have trended 12 through 2015.

Il costs to joint-owners, affiliates, and O&M, Staff among FERC accounts based upon how KCPL se same accounts during the test year, December 31, ff made to allocate the annualized payroll to each of

18.1, E-21.1, E-25.1, E-35.1, E-38.1, E-41.1, E-44.1, 2.1, E-75.1, E-77.1, E-79.1, E-84.1, E-86.1, E-98.1, 0.1, E-110.1, E-111.1, E-118.1, E-119.1, E-124.1,

1	E-125.1, E-126.1, E-127.1, E-130.1, E-135
2	E-148.1, E-149.1, E-150.1, E-151.1, E-152
3	E-160.1, E-161.1, E-162.1, E-163.1, E-164
4	E-176.1, E-179.1, E-180.1, E-187.1, E-192
5	E-210.1, E-219.1, E-220.1, E-224.1, E-228.1,
6	Staff Expert/Witness: Matthew R. Young
7	a. Missouri Energy I
8	KCPL is proposing an adjustment
9	associated with its approved energy efficien
10	recovery through its Demand Side Investment
11	Staff is opposed to KCPL making this
12	and has a historical cost recovery methodolo
13	methodology it would needlessly shift the c
14	customer. There also exists the possibility of
15	allowed to be recovered through KCPL D
16	proposed any such safe guards. The risk of
17	was included in the labor annualization for
18	programs. KCPL would recover labor cost
19	rate case. Any changes in labor costs are not
20	same costs again in the DSIM Rider. Also,
21	Company labor cost as a program cost item f
22	DSIM Rider:
23	"Program Cost" means program
24	as program design, administrat
25	incentive payments, evaluation
20 27	resource manual. ⁷³

5.1, E-137.1, E-138.1, E-139.1, E-146.1, E-147.1, 2.1, E-153.1, E-154.1, E-155.1, E-158.1, E-159.1, 4.1, E-165.1, E-166.1, E-170.1, E-171.1, E-172.1, 2.1, E-193.1, E-198.1, E-201.1, E-204.1, E-209.1, E-235.1.

Efficiency Investment Act Labor Adjustment

of \$1,078,773⁷⁰ that would remove labor costs ncy programs from permanent rates and seek cost t Mechanism Rider ("DSIM Rider").⁷¹

is adjustment in this case. Labor expense is unique ogy, and by moving away from this cost recovery cost recovery risk away from the Company to the of double recovery of labor cost if those costs are OSIM Rider without safe guards. KCPL has not double recovery can occur when an employee that r permanent rates bills time to KCPL's MEEIA in permanent rates once the rates are set in the reflected in rates. KCPL would then recover the KCPL's DSIM Rider⁷² does not specifically list for recovery. Program costs as defined in KCPL's

m expenditures, including such items tion, delivery, end-use measures and on, measurement and verification, work on a statewide technical

¹⁰ In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service, Case No. ER-2016-0285 (Direct Testimony of Ronald Klote, filed July 1, 2016) CS-50 Payroll Annualization KCPL-MO Direct, KCPL Summary Tab. ⁷¹ On April 6, 2016, the Commission approved KCPL's Demand-side Investment Mechanism ("DSIM") Rider in Case No. EO-2016-0240, which provides for periodic rate adjustments between general rate cases. ¹² Kansas City Power & Light, MO.P.S.C. Schedule No 7, Third Revised Sheet No. 49, ⁷³ Kansas City Power & Light, MO.P.S.C. Schedule No 7, First Revised Sheet No. 49A.

1	For these reasons Staff is opposed
2	adjustment as proposed in this case.
3	Staff Expert/Witness: Dana E. Eaves
4	2. Payroll Related Benefits
5	KCPL incurs costs for a variety of p
6	employee insurance premium contributions.
7	as of June 30, 2016, in its determination of
8	excluding 401k matching costs, as costs have
9	compensation, Staff allocated payroll-related
10	stations using the same method Staff utilized
11	employees. That method is described in the p
12	Staff calculated KCPL's annualized
13	percentage match to KCPL's share of total an
14	percentage match by dividing the percenta
15	401k eligible payroll expense in seven se
16	Staff Adjustments E-214.1 and E-214.2 to S
17	Staff's normalized payroll benefits, based or
18	June 30, 2016.
19	Staff Expert/Witness: Matthew R. Young
20	3. <u>Payroll Taxes</u>
21	Staff annualized KCPL's payroll tax
22	employee's annualized level of payroll and e
23	incentive compensation. To calculate payrol
24	applied the current tax rate for Medicare
25	compensation under the assumption the all tax
26	To compute payroll taxes for overtime, tempo
27	Staff applied the current payroll tax rates
28	Unemployment Tax Act ("FUTA") and State
29	were achieved. To allocate Staff's annualized

ed to KCPL's proposed Pro forma MEEIA labor

payroll-related benefits, such as 401k matching and Staff included the most recent historical cost level, of KCPL's cost of service for all payroll benefits, been increasing. Because it is additional employee benefits to the owners of jointly-owned generating I to allocate the associated base payroll costs of those payroll section of this report.

401k costs by applying an average of actual 401k nnualized payroll costs. Staff calculated the average age of KCPL's actual 401k match by the actual eparate pay periods, and averaging those ratios. Staff's Income Statement (EMS Schedule 9) reflect on KCPL's payroll costs as of the update period of

xes by applying current payroll tax rates to each each employee's last known receipt of Value-Link Il taxes on executive incentive compensation, Staff e tax to Staff's annualized executive incentive wage ceilings were achieved through base payroll. orary labor, premium pay, and Wolf Creek payroll, to these "other" wages assuming the Federal Unemployment Tax Act ("SUTA") wage ceilings ed payroll taxes to the various subsidiaries of Great

1	Plains, Staff used the same method that it
2	Adjustment E-258.1 to Staff's Income State
3	payroll taxes based on payroll costs as of June
4	Staff Expert/Witness: Matthew R. Young
5	4. True-up of Payroll Costs
6	Staff will update the total payroll costs
7	on actual historical information through Decen
8	true-up data indicate a change in circumstance,
9	as of June 30, 2016 will be used for the true-up.
10	Staff Expert/Witness: Matthew R. Young
11	5. <u>FAS 87 – Pension Cost Tra</u>
12	Staff and KCPL entered into a Non-U
13	Pensions and Other Post Employment Benefits
14	No. ER-2014-0370, dated June 26, 2015. An
15	ratemaking treatment for annual pension cost
16	("FAS 87"), and pension settlement and curt
17	Standard No. 88 ("FAS 88"). The Agreem
18	Non-Unanimous Stipulation and Agreement as
19	stipulation and agreements were approved by the
20	The names of the FASs have recently
21	Board's ("FASB") Accounting Standards Codif
22	the single source of authoritative nongover
23	Principles ("GAAP") (other than guidance issue
24	The new Codification Topic 715 covers all of
25	subtopics:
26	• FAS 87 and FAS 88, Employers'
27	 FAS 158, Employers' Accounting
28	Postretirement Plans; and
29	• FAS 106, Employers' Accountin
30	Pensions.

used to allocate KCPL's payroll costs. Staff ement (EMS Schedule 9) reflects the annualized 30, 2016.

s, payroll-related benefits, and payroll taxes based nber 31, 2016, for the true-up in this case. Unless the same methodology used to annualize payroll

acking Mechanism

Inanimous Stipulation and Agreement Regarding s ("Agreement") in KCPL's 2014 rate case, Case mong other items, this Agreement addressed the sts under Financial Accounting Standard No. 87 tailment accounting under Financial Accounting nent was clarified and modified by the Partial to Certain Issues, Case No. ER-2014-0370. Both ne Commission in that case.

changed. The Financial Accounting Standards fication project was launched in 2009 and became mmental U.S. Generally Accepted Accounting ed by the Securities and Exchange Commission). the following FAS statements under its various

' Accounting for Pensions; ing for Defined Benefit Pension and Other

ng for Post Retirement Benefits other than

1	While the above individual FAS statements h
2	the purposes of this Report, Staff will use the
3	FAS 88, FAS 106, and FAS 158, as needed.
4	The Agreement reaffirmed the prio
5	KCPL's Regulatory Plan and subsequent rate
6	allocated to KCPL's joint partners in the
7	addressed the ratemaking treatment for a curta
8	There are two amounts in KCPL's
9	various agreements reached in Case Nos.
10	ER-2009-0089, ER-2010-0355, ER-2012-017
11 12 13 14 15	 A Prepaid Pension A represents the unrecovered bala back to ratepayers in prior year be created when contributions to 87 expense.
16 17 18 19 20 21 22 23	2) A FAS 87 Regulatory Stipulation and Agreements between FAS 87 reflected i recorded in its financial state either a regulatory asset or liably years in the next rate case. The June 30, 2016 is a regulatory as rates has been less than the incur
24	Staff's recommended annualized level of k
25	provided by KCPL's actuarial firm, Towers
26	response to Staff Data Request No. 0223. St
27	made in accordance with the methodology c
28	ER-2014-0370.
29	Based on the language of the Agreeme
30	cost of service recovery of KCPL's share of
31	increase to pension expense.
32	The FAS 88 charge is related to the
33	removed from KCPL's pension plans and the i
34	these employees in the alternative. While the I

nave been combined into Codification Topic 715, for e original FAS statement numbers, such as FAS 87,

or provisions regarding these matters reached in cases, and clarified the accounting for pension cost latan and La Cygne generating stations. It also ailment or settlement recognized under FAS 88.

's rate base relating to pensions resulting from EO-2005-0329, ER-2006-0314, ER-2007-0291, 74, and ER-2014-0370:

sset - The prepaid pension asset ance of negative pension cost flowed rs. A prepaid pension asset can also to the pension plans exceed the FAS

Asset – Under the terms of the referenced above, the difference in rates and KCPL's actual cost ements is tracked and recorded as ility, and is then amortized over five ne cumulative tracker balance as of sset; that is, the amount collected in urred FAS 87 expense.

KCPL pension expense is based on information Watson, which KCPL in turn provided to Staff in taff's calculation of KCPL's pension expense was described in the Agreement reached in Case No.

ent in Case No. ER-2014-0370, Staff recommends FAS 88 charges through a five-year amortization

impact on pension expense of employees being mpact of paying lump sum pension distributions to FAS 88 charge is an increase to cost of service, the

1	ongoing level of pension expense should be
2	from the pension plan.
3	Ongoing pension expense and the rat
4	included in Staff Adjustment E-210.2 in the
5	Schedule 2.
6	Staff Expert/Witness: Keith Majors
7	6. <u>FAS 106 – Other Post E</u>
8	Staff and KCPL entered into a Non
9	Pensions and Other Post Employment Bene
10	No. ER-2014-0370, dated June 26, 2015.
11	ratemaking treatment for annual Other P
12	Financial Accounting Standard No. 106 (
13	modified by the Partial Non-Unanimous
14	Case No. ER-2014-0370. Both stipulation a
15	that case.
16	OPEBs are those costs KCPL incu
17	The primary benefit is medical insurance,
18	insurance benefits.
19	FAS 106 is the FASB approved accr
20	recognition of annual OPEB costs, and is a
21	The accounting of the cost of postretirement
22	dollars KCPL pays for OPEBs to its retirees
23	recognize the financial effects of noncash tra
24	transactions and events are primarily an estin
25	retirement, but will not paid until after retire
26	passage of time until those benefits are paid.
27	KCPL does not fund its share of
28	calculations. KCPL funds Wolf Creek OPE
29	the FAS 106 calculated accrual. This me

lower due to the removal of these employees' costs

te base portion of the pension tracker mechanism are Income Statement - Schedule 10, and Rate Base -

mployment Benefit Cost Tracking Mechanism

1-Unanimous Stipulation and Agreement Regarding efits ("Agreement") in KCPL's 2014 rate case, Case Among other items, this Agreement addressed the Post Employment Benefit ("OPEB") Costs under ("FAS 106"). The Agreement was clarified and Stipulation and Agreement as to Certain Issues, nd agreements were approved by the Commission in

urs to provide certain benefits to KCPL retirees. but they also include life, dental, and vision

rual accounting method used for financial statement Iso used as the basis of rate recovery for this item. benefits under FAS 106 is not based on the actual currently, but is accrual-based in that it attempts to ansactions and events as they occur. These noncash mate of current benefits earned by employees before ement, as well as the interest cost arising from the

Wolf Creek OPEB expense based on FAS 106 EB based on the actual amount of benefits paid, not ethod is generally referred to as "pay-as-you-go".

1	Accordingly, the Wolf Creek OPEB costs are
2	but are included separately in the cost of servi
3	Staff's OPEB adjustment to KCPL Ac
4	of OPEB expense determined by KCPL's act
5	the exception of KCPL's portion of Wolf C
6	ending December 31, 2014 actual payments.
7	Beginning May 4, 2011, KCPL initia
8	the Commission authorized in Case No. ER-2
9	are the differences between the current ongoi
10	external trust and the dollar amount of OPI
11	unamortized balance of this tracker will be
12	case, and either will be added to or subtracted
13	KCPL's actuaries. The cumulative tracker ba
14	that is, the amount collected in rates has been
15	As with other rate base, prepaid pension and o
16	tracker liability will be updated through the De
17	Ongoing OPEBs expense and the rate
18	included in Staff Adjustments E-211.2 in the
19	Schedule 2.
20	Staff Expert/Witness: Keith Majors
21	7. <u>Supplemental Executive R</u>
22	Included in Staff's revenue requirement
23	monthly-recurring SERP payments KCPL n
24	compensated former employees. SERPs are
25	other highly-compensated employees that prov
26	have received under other company retirement
27	imposed by the Internal Revenue Service ("IR
28	retired former officers and executives are in a
29	under its FAS 87 pension plan. SERP pensior
30	on retirement programs by the IRS and therefo

e not included in the FAS 106 tracking mechanism, ice on a pay-as-you-go basis.

ccount 926, Employee Benefits, annualizes the level tuaries using the FAS 106 accounting method, with Creek OPEB expense, calculated as the 12 months

ated a new tracking mechanism for OPEBs, which 2010-0355. Under this mechanism, what is tracked ing level of OPEB expense funded by KCPL in an EB expense reflected in rates in each case. The amortized over five years in each successive rate from the level of OPEB expense as determined by alance as of June 30, 2016 is a regulatory liability; more than the incurred FAS 106 OPEB expense. other pension assets, it is anticipated that the OPEB ecember 31, 2016 true-up period.

base portion of the OPEB tracker mechanism are Income Statement - Schedule 10, and Rate Base -

Retirement Plan ("SERP") Expense

nt recommendation is an annualized level of actual nade to its former executives and other highly "non-qualified" retirement plans for officers and vide pension benefits that these individuals would nt plans, but for compensation and benefit limits RS"). These supplemental pension benefits paid to ddition to the cost of pension benefits KCPL pays n benefits generally exceed various limits imposed ore are referred to as "non-qualified" plans. SERP

1	benefits are not externally funded to a trust
2	of service of KCPL are based upon actual cas
3	SERP payments can consist of eithe
4	distributions. Lump-sum payments can be si
5	difficult to predict. As opposed to including
6	KCPL used a conversion factor of 14.3 to co
7	approximates the equivalent annuity payment
8	payment option were not elected. Staff util
9	level of converted lump-sum payments.
10	KCPL and GMO currently charge a p
11	as capitalizing these costs. In the response to
12	portion of SERP has been capitalized for "a
13	that policy. The cumulative portion of cap
14	balances in Staff Accounting Schedule 3 as
15	capitalizes SERP costs, Staff has included a r
16	capitalization rate used in Staff's payroll adjust
17	Staff recommends that a three year a
18	year average of converted lump-sum paymen
19	SERP expense in rates. This approach is refle
20	E-210.3.
21	Staff Expert/Witness: Keith Majors
22	8. <u>Severance Expenses</u>
23	Staff recommends removal of emplo
24	year. Severance payments are cash paymen
25	Severance agreements typically include com
26	litigation against the company and its officers.
27	Severance payments are non-recurring
28	the unique nature of cost of service ratemaking
29	through regulatory lag. Between the time the

by KCPL, and the amounts Staff included in is cost sh SERP payouts to covered employees.

er monthly annuity payments or periodic lump-sum ignificant and the timing of these payments are often a normalized amount of actual lump-sum payments, convert prior lump-sum payments to an amount that nts to the qualifying employees as if that lump-sum lized this factor for the calculation of a normalized

portion of SERP costs to plant accounts, also known to Staff Data Request 229.1, KCPL identified that a number of years" and there has been no change in pitalized SERP is included in the plant in service a portion of construction costs. Because KCPL reduction in SERP expense commensurate with the stment in this case.

average of monthly annuity payments, and a three nts, be used in this rate case to determine allowable ected in Staff Accounting Schedule 10, Adjustment

byce severance payments incurred during the test nts to former employees paid for various reasons. mitments from the former employee to not pursue

g in regards to the specific employee. Because of ng, utilities are able to recover severance payments e employee is terminated and rates are changed in

the next rate case, KCPL collects both the salary and wages of the terminated employee and 1 2 benefit costs. These amounts can accumulate to more than the severance paid. 3 The adjustments for the removal of severance expenses are in Staff Accounting Schedule 10, Adjustments E-E-119.5 and E-201.7. 4 Staff Expert/Witness: Keith Majors 5 9. Short Term Annual Incentive Compensation 6 7 KCPL has two short-term annual incentive compensation plans for executive and management employees. These plans are designed to grant cash awards of various amounts that 8 9 are calculated based upon designated annual metrics. Incentive compensation accrues over a 10 calendar year and is paid out in the first quarter of the following calendar year. The two incentive compensation plans are 1) the Value-Link Plan, reserved for non-union, non-executive 11 KCPL employees; and 2) the Annual Executive Incentive Plan, reserved for senior management-12 13 level KCPL employees. 14 The incentive plans all have benchmarks that identify targets that KCPL employees are expected to achieve before any cash payouts are awarded. These targets are established each 15 16 year of the incentive plan and communicated to the employees early enough so that the employees have sufficient opportunity to reasonably achieve the benchmarks. 17 18 Staff has historically disallowed payouts from KCPL's Value-Link incentive compensation plan related to attaining certain financial metrics, such as Earnings per Share 19 20 ("EPS"), on the basis that these metrics are to benefit shareholders and not ratepayers. In addition, the Commission has historically disallowed the awarding of incentive compensation 21 tied to the utility achieving certain corporate financial goals on the basis that these goals provide 22 23 no direct benefit to Missouri ratepayers. See specifically Re KCPL, Case Nos. ER-2006-0314, 15 Mo.P.S.C.3d 138, 171-72 (2006) and Re KCPL, ER-2007-0291, pp. 49-51 (2007). 24 The Value-Link plan has listed an EPS component as a metric for incentive payouts 25 26 during the plan years 2012 through 2015. However, the Value-Link plan for the calendar year 2016 does not have an EPS component, which makes historical plan years less relevant to future 27 incentive compensation awards. To normalize incentive compensation expense related to the 28 Value-Link plan, Staff averaged three of the four most recent plan years (2012, 2014, and 2015) 29 30 to include in KCPL's cost of service. During the plan years included in Staff's average,

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6	** Staff cannot base its recomme
7	Value-Link plan because the actual payout w
8	first quarter of 2017, when the payout is award
9	For consistency, Staff's normalized en
10	payouts for the same plan years above (2012
11	Staff then allocated its normalized incentive
12	and between O&M and Non-O&M expendit
13	E-119.2, E-124.2, E-146.2, E-154.3, E-164.2,
14	E-214.3 reflect KCPL's jurisdictional O&M ex
15	Staff Expert/Witness: Matthew R. Young
16	10. <u>Capitalized Long-Term In</u>
17	Great Plains offers an equity-based I
18	which is partially allocated to KCPL. Staff h
19	the test year ended December 31, 2015. T
20	incentive compensation in its Reports and
21	15 Mo.P.S.C.3d 138, 171-72 (2006) and ER-
22	In Case Nos. ER-2010-356 and ER-2012-017
23	from its cost of service. In its Report and Orde
24	the context of a discussion of rate case expen
25	are highly discretionary and do not benefit c
26	lobbying expenses, and incentive compensation
27	entirely to shareholders." (Footnote omitted).
28	Beginning in 2014 KCPI began char
	Degining in 2014, Ref L began charg
29	costs Great Plains allocated to it. Before 2014,



nended incentive compensation expense on the 2016 will not be known and measurable until late in the ided to employees.

expense for the executive plan is an average of the 2, 2014, and 2015), less payouts for EPS metrics. compensation amounts to the affiliates of KCPL, tures. Staff Adjustments E-4.3, E-98.2, E-108.2, E-170.2, E-171.2, E-172.2, E-187.2, E-198.3, and xpense portion of incentive compensation.

icentive Equity Compensation

Long Term Incentive Plan ("LTIP"), the cost of has removed the LTIP expense KCPL recorded in The Commission denied recovery of stock-based *d Orders* in KCPL Case Nos. ER-2006-0314, -2007-0291, 15 Mo.P.S.C.3d 552, 585-87 (2007). 75, GMO voluntarily removed LTIP related costs *ler* in KCPL Case No. ER-2014-0370 at page 68, in nse, the Commission noted, "Utility expenses that customers, such as charitable donations, political on tied to earnings per share, are typically allocated

Beginning in 2014, KCPL began charging to its capital accounts a portion of the LTIP costs Great Plains allocated to it. Before 2014, no part of these costs was capitalized. Because it is inappropriate to recover stock-based compensation as an expense in the cost of service, it is

NP
1	also inappropriate to recover stock-based co
2	rate base. Therefore, Staff recommends the a
3	should be removed from KCPL's plant in se
4	Staff's Accounting Schedule 3 – Plant in Serv
5	Staff Expert/Witness: Keith Majors
6	D. Maintenance Normalization A
7	Maintenance expense is the cost of
8	expenses and clearing accounts. It includes
9	incurred in maintaining the Company's as
10	distribution network of the electric system, an
11	work tied to specific classes of plant are listed
12	FERC USOA for the various types of utilities
13	costs of the following activities:
14	Direct field supervision of
15	 Inspecting, testing and rep
16	determine the need for repa
17	• Work performed with the i
18	or maintain the expected in
20	 Installing maintaining and
20	interruptions: and
22	Replacing or adding mino
23	retirement unit.
24	Staff analyzed maintenance costs from 199
25	production, transmission, distribution, and g
26	maintenance between labor and non-labor cos
27	component in the cost of service analysis, la
28	order to perform a review of non-labor mainte
29	Several steps were taken to analyze th
30	non-labor maintenance amounts to identify a
31	as trends or fluctuations from one period to
32	was to compare functional averages, which i

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ompensation as capital (plant-in-service) included in amounts of LTIP expense that KCPL has capitalized ervice. Staff's adjustments to do so are included in vice, Adjustments P-322.1

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djustments

f maintenance chargeable to the various operating labor, materials, overheads, and any other expenses ssets - including power plants, transmission and and the general plant. Specific types of maintenance ed in functional maintenance expense accounts in the ies. Maintenance expense normally consists of the

² maintenance; eporting on condition of plant, specifically to airs and replacements; intent to prevent failure, restore serviceability ife of the plant; clearing trouble; nd removing temporary facilities to prevent or items of plant, which do not constitute a

39 through June 30, 2016, by functional area for general plant by FERC account. Staff separated osts. Since labor costs are separately addressed as a labor costs were removed from Staff's analysis in enance costs only.

he maintenance data. They included examining the any characteristics of the maintenance dollars such to another. Another approach used by the Staff included using a two (2)-year average through a

seven (7)-year average to determine if there were fluctuations with each functional area. Each of the costs by year and averages for maintenance were also compared to results for the test year, 2 the 12-month period ended December 31, 2015, and the update period ended June 30, 2016. 3 Staff reviewed the data as detailed above to establish a maintenance level that will result in an 4 annualized level of KCPL's maintenance costs to include in rates. Staff will review non-labor 5 6 maintenance expense again during the true-up phase of this case. Staff's results are presented in the following table: 7 8

Results of Staff's Non-Labor Maintenance Analysis	
Steam Production Maintenance	12-Month Test Year Ended December 31, 2015
Nuclear Production Maintenance	12-Month Test Year Ended December 31, 2015
Other Production Maintenance	12-Month Test Year Ended December 31, 2015
Transmission Maintenance	12-Month Test Year Ended December 31, 2015
Distribution Maintenance	12-Month Test Year Ended December 31, 2015
General Maintenance	12-Month Test Year Ended December 31, 2015

9

As identified in the table above, Staff decided to use the 12-month test year ended December 31, 10 2015, account balances to represent future maintenance costs for Production Nuclear, Other 11 12 Production, Transmission and Distribution for purposes of its direct case filing. Staff used the 12-month test year period to reflect a level of normalized maintenance for these costs based on 13 actual information provided by KCPL for a period of several years. This historical information 14 was analyzed to determine the proper level of maintenance which should be included in KCPL's 15 cost of service in this case. 16 17 For Wolf Creek, there are two types of O&M costs - O&M for general plant, and O&M relating to the refueling outages that occur every 18 months. Staff performed separate analyses 18 for each. A discussion of the O&M expenses related to the Wolf Creek refueling is located 19 under the heading Wolf Creek Nuclear Refueling Outage in this report. 20 Staff Expert/Witness: Michael Jason Taylor 21

1	1. Wolf Creek Nuclear Ref
2	Staff included an annualized level of
3	in spring of 2015, and an amortization of
4	refueling outage #18 as calculated and agree
5	Staff reviewed information provided by K
6	While refueling costs have generally increas
7	#19 to refueling #20. The only significant
8	Staff determined the age of the plant and un
9	experienced with outage #18.74
10	The costs on KCPL's books associate
11	deferred and amortized over a 18-month pe
12	annualized amortization of #20 refueling cost
13	In addition to costs for refueling out
14	established in the previous KCPL rate case
15	amortization was established for non-routine
16	#18. The amortization of the non-routine mathematical statements and the second statement of the secon
17	began February 2013 and will end January
18	books reflects the appropriate amortization le
19	amortization. Once the amortization of the r
20	refueling #18 are fully amortized, KCPL will
21	longer incurring. Consistent with the Partia
22	Certain Issues ⁷⁵ in File No. ER-2014-037
23	refueling #18 is complete, KCPL apply the fu
24	to offset future refueling costs.
25	Staff Expert/Witness: Michael Jason Taylor
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⁷⁴ Staff Data Request No. 0147.2 in Case No. ER-2012-0174. ¹⁵ In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Regarding Certain Issues on July 17, 2015.

fueling Outage

of refueling cost for refueling outage #20, completed non-routine maintenance cost that occurred during ed to in the KCPL rate case, File No. ER-2012-0174. CPL for the last seven nuclear refueling outages. sed since refueling #14, they declined from refueling increase was from refueling #17 to refueling #18. planned equipment issues led to the increased costs

ed with Wolf Creek refueling outage #20 have been period. Adjustments E-68.2 and E-80.2 reflect the ts.

tage #20, Staff reflected the refueling amortizations se - refueling #18, File No. ER-2012-0174. The ne maintenance costs that occurred during refueling aintenance costs that occurred during refueling #18 2018. The test year amount recorded on KCPL's evel; therefore, no adjustment was necessary for this non-routine maintenance costs that occurred during Il be collecting funds in rates for expenses it is no al Non-Unanimous Stipulation and Agreement as to 70, Staff recommends that once amortization of unds that will continue to be collected through rates

Increase for Electric Service, Case No. ER-2014-0370, (Partial Non-Unanimous Stipulation and Agreement as to Certain Issues, filed July 1, 2015) page 3. The Commission issued an Order Approving Stipulation and Agreement

1	2. Wolf Creek Mid-Cycle Ou
2	KCPL's test year in File No. ER-2014
3	Wolf Creek generating station that occurred
4	mid-cycle outage began March 8, 2014, and
5	related to the refueling outages that occur eve
6	maintenance expense, but did not include ref
. 7	the mid-cycle outage resulted in less mainten
8	#20 than what would normally be expected du
9	2015, and was completed on May 3, 2015.
10	Pursuant to the Partial Non-Unanima
11	Depreciation and Other Miscellaneous Issues
12	Agreement as to Certain Issues ⁷⁶ in File No.
13	approved by the Commission on July 17, 2015
14	and amortize the costs related to the m
15	The amortization of these costs commenced wi
16	Commission in File No. ER-2014-0370 on Se
17	level of the Wolf Creek mid-cycle amortizati
18	E-68.1 and E-80.1.
19	Staff Expert/Witness: Michael Jason Taylor
20	3. <u>Nuclear Decommissioning</u>
21	In its Order Approving Stipulation A
22	Commission ordered the following:
23	
24	3) Kansas City Power & L
25	annual decommissioning expens
26	shall continue at the current leve
	⁷⁶ In the Matter of Kansas City Power & Light Company
	Increase for Electric Service, Case No. ER-2014-0370, (
	Certain Issues, med July, 1, 2013) page 5. The Commiss

any's Request for Authority to Implement a General Rate), (Partial Non-Unanimous Stipulation and Agreement as to nission issued an Order Approving Stipulation and Agreement Regarding True Up, Depreciation, and Other Issues and an Order Approving Stipulation and Agreement Regarding Certain Issues both on July 17, 2015.

Outage

014-0370 included a planned mid-cycle outage at the red between refueling #19 and refueling #20. The and was completed on May 13, 2014, and was not every 18 months. The mid-cycle outage resulted in refueling. The maintenance work completed during tenance work being required during refueling outage during a refueling. Refueling 20 began February 28,

imous Stipulation and Agreement as to True Up, ues and the Partial Non-Unanimous Stipulation and No. ER-2014-0370, both filed on July 1, 2015, and 15, KCPL was authorized to create a regulatory asset mid-cycle outage over a five (5)-year period. with the charging of the new rates authorized by the September 29, 2015. Staff included an annualized ration in Staff's Accounting Schedules, Adjustment

And Agreement in File No. EO-2012-0068, the

Light Company's retail jurisdiction ense accruals and trust fund payments evel of \$1,281,264.

Page 106

1 2 3 4	4) The current decommincluded in Kansas City P Missouri cost of service and retail rates for ratemaking pur
5	In its Order Approving Stipulation And Agree
6	ordered the following:
7	
8 9 10	4) Kansas City Power & annual decommissioning expe shall continue at the current le
11 12 13 14 15	5) Kansas City Power & continue to record and pres obligation costs, as agreed by the Public Counsel, and Commission in Case No. EU-2
16	6) This order shall becom
17	Staff found the KCPL test year decommission
18	Commission; therefore, no adjustment was ne
19	Staff Expert/Witness: Matthew R. Young
20	4. <u>Meter Replacement Prog</u>
21	In 2014, KCPL began installing Advan
22	will replace all of the Company's Automated
23	into a new meter reading contract during the
24	with the newly installed AMI meters. The n
25	cost from ** **
26	meter reading cost associated with the new Al
27	Staff Expert/Witness: Michael Jason Taylor

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issioning costs for Wolf Creek are Yower & Light Company's current are reflected in its current Missouri rposes.⁷⁷

reement in File No. EO-2015-0056, the Commission

Light Company's retail jurisdiction ense accruals and trust fund payments evel of \$1,281,264.

& Light Company is authorized to serve Wolf Creek asset retirement the Commission Staff, the Office of KCP&L and authorized by the 2004-0294.

ne effective on January 21, 2015.78

oning expense reflected the amount ordered by the ecessary.

ram – Incremental Meter Reading Costs

nced Metering Infrastructure (AMI) technology that d Meter Reading ("AMR") meters. KCPL entered e pendency of Case No. ER-2014-0370 associated new contract increases the composite meter reading per meter. Staff Adjustment E-171.3 reflects the MI meters.

¹¹ In the Matter of Application of Kansas City Power & Light Company for Approval of the Accrual and Funding of Wolf Creek Generating Station Decommissioning Costs at Current Levels, Case No. EO-2012-0068 (Order Approving

¹⁸ In the Matter of the Application of Kansas City Power & Light Company for Approval of the Accrual and Funding of Wolf Creek Generating Station Decommissioning Costs at Current Levels, Case No. EO-2015-0056, (Order Approving



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Stipulation and Agreement), at page 3.

Stipulation and Agreement), at page 3.

1	5. <u>Iatan Unit 2 O&M Expe</u>
2	In Case No. ER-2010-0355, Staff rec
3	so the actual cost of the O&M expense relat
4	in future rate cases. Since Iatan Unit 2 was
5	operational experience with Iatan Unit
6	ER-2010-0355, an O&M tracker was sugge
7	including projected costs in rates that we
8	associated with Iatan Unit 2's O&M expense
9	a Non-Unanimous Stipulation and Agreeme
10	for Iatan Unit 2 costs and on April 12, 2011
11	these costs.
12	In File No. ER-2012-0174, a three (3
13	that exceeded the base rates established in Ca
14	of service. In addition, a new base level w
15	included in KCPL's cost of service on a goir
16	KCPL still only had limited operating experie
17	The three (3)-year amortization that w
18	to as Vintage 1. The effective date of rates
19	The amortization period for Vintage 1 ended
20	has ended, Staff made an adjustment to elin
21	12 months ending December 31, 2015.
22	In Case No. ER-2014-0370, a three (.
23	that exceeded the base rates established in Fi
24	of service. In addition, the tracker was disco
25	now treated as a normal component of O&M
26	associated with all the other power plants ope
27	Although the latan 2 tracker has been
28	made until the balances are fully amortize
29	established with the Iatan 2 tracker. Staff's
30	amount of amortization expense for vintages t

enses

commended a tracker for latan Unit 2 O&M expense, ted to latan Unit 2 would be recovered through rates placed in service on August 26, 2010, and KCPL's 2 was non-existent at the time of Case No. ested to protect both KCPL and its customers from ould in all likelihood vary from the actual costs se. KCPL and other signatory parties agreed through ent in Case No. ER-2010-0355 to establish a tracker I, the Commission approved the use of a tracker for

3)-year amortization of the actual latan Unit 2 costs ase No. ER-2010-0355 was included in KCPL's cost as established for the Iatan Unit 2 tracker and also ng-forward basis. At the time of the 2012 rate case, ence with the two (2)-year old plant.

vas established in File No. ER-2012-0174 is referred in File No. ER-2012-0174 was January 26, 2013. d January 26, 2016. Since the amortization period minate the annual amortization from the test year,

(3)-year amortization of the actual latan Unit 2 costs ile No. ER-2012-0174 was included in KCPL's cost ontinued in that case. Iatan Unit 2 O&M costs are expense in the cost of service just like the expenses erated by KCPL.

discontinued, rate case adjustments still need to be ed. There are five "vintages" of deferred costs adjustment E-5.1 and E-42.1 reflect an annualized two through five.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
placed in service, a O&M tracker was esta
tracker is not intended to allow KCPL to ov
Iatan Unit 2 but to recover the actual reasona
O&M tracker for latan Unit 2 allow for KCP
lack of foresight in addressing the matter of a
amortization period. Consistent with the Par
to Certain Issues ⁷⁹ in Case No. ER-2014-03
vintage 1 to offset vintage 2. Staff has reflected
Since the amortization period for vinta
continue to pay for vintage 1 through the effect
offset vintage 2 with the over-collection for th
of June 2016. During the true-up phase of thi
the period of January 2016 through Decem
above, KCPL agreed to track any over-collect
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases.
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor 6. <u>IT Software Maintenance</u>
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor 6. <u>IT Software Maintenance</u> KCPL incurs costs associated with o
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor 6. <u>IT Software Maintenance</u> KCPL incurs costs associated with o ("IT") hardware and software that include, b
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor 6. <u>IT Software Maintenance</u> KCPL incurs costs associated with o ("IT") hardware and software that include, b Oracle. KCPL prepays the software maintena
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor 6. <u>IT Software Maintenance</u> KCPL incurs costs associated with o ("IT") hardware and software that include, b Oracle. KCPL prepays the software maintenan over the life of the contract. Staff reviewed
above, KCPL agreed to track any over-collect a result of the latan Unit 2 tracker and appl vintages in subsequent KCPL rate cases. Staff Expert/Witness: Michael Jason Taylor 6. <u>IT Software Maintenance</u> KCPL incurs costs associated with o ("IT") hardware and software that include, b Oracle. KCPL prepays the software maintenan over the life of the contract. Staff reviewed update period in this case, 12 months ending J

subsequently renewed.

26 27

perating and maintaining latan Unit 2, when it was ablished to protect KCPL and its customers. The ver-recover the actual O&M expenses incurred for able and prudent costs. It was not intended that the PL to profit at the ratepayers' expense because of a an end date in rates at the conclusion of the intended rtial Non-Unanimous Stipulation and Agreement as 370, KCPL agreed to track the over-collection of ed this offset as described below.

age 1 ended in January 2016, KCPL customers will ective date of rates in this case. Consequently, Staff he period of January 2016 through the update period is case, Staff will make a similar adjustment but for ber 2016. Pursuant to the stipulation referenced ion associated with any amortization established as ly the over-recovery as an offset to other latan 2

contracts to maintain its information technology out are not limited to, Microsoft, PowerPlan, and ance vendor and amortizes the balance of the costs KCPL's prepaid IT software maintenance for the June 30, 2016. During its review, Staff found that 2016. If a contract was renewed, Staff included the current contract price in its annualization, and omitted contracts that expired and were not

Increase for Electric Service, Case No. ER-2014-0370, (Partial Non-Unanimous Stipulation and Agreement as to Certain Issues, filed July 1, 2015) page 3. The Commission issued an Order Approving Stipulation and Agreement

⁷⁹ In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Regarding Certain Issues on July 17, 2015.

1	Staff's adjustment is identified or
2	Adjustments E-21.5, E-119.4, E-130.4, E-16
3	during the True-Up audit in this case.
4	Staff Expert/Witness: Karen Lyons
5	7. <u>Critical Infrastructure P</u>
6	Staff analyzed KCPL's actual non
7	Protection ("CIP") costs from the period of
8	Electric Reliability Corporation ("NERC") e
9	utility assets that are required for operating
10	historical
11	Cyber-Security and CIP non-labor cos
12	™ **
:	
13	**
14	As reflected in the table above, Staff
15	an upward trend through December 31, 2015
16	months of 2016. Consequently, Staff annua
17	using the 12 months ending June 30, 2016.
18	not include internal labor costs for CIP and
19	service through Staff's payroll annualization.
20	Statt's Accounting Schedules, Adjustment
21	E-201.5, E-205.2, E-211.1, and E-235.3.
22	Staff Expert/Witness: Karen Lyons

n Schedule 10 of Staff's Accounting Schedules, 66.2, and E-235.2. Staff will review this adjustment

Protection and Cyber-Security

n-labor Cyber-Security and Critical Infrastructure of 2009 through June 2016. The North American established a set of requirements designed to secure og North America's bulk electric system. KCPL's

sts are identified in the following table:



found the costs for CIP and Cyber-Security showed 5, but are beginning to decline through the first six alized the non-labor CIP and Cyber-Security costs Consistent with other rate case expenses, Staff did Cyber-Security as those are included in the cost of Staff's adjustments are identified on Schedule 9 of ts E-21.1, E-119.3, E-124.3, E-130.2, E-198.4,

Е.	Other Non-Labor Adjustmen
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1. Bad Debt Expense

3 Staff's recommended treatment of bad debt expense is to calculate the ratio of KCPL's net write-offs to annualized retail revenue to determine an appropriate level of bad debt expense. 4 Bad debt expense is the portion of retail revenues KCPL is unable to collect from retail 5 customers by reason of bill non-payment. After a certain amount of time has passed, delinquent 6 customer accounts are written off and turned over to a third party collection agency for recovery. 7 If KCPL is subsequently able to successfully collect some portion of previously written off 8 9 delinquent amounts owed, then those collected amounts reduce current write-offs. Offsetting successful collection agency recoveries against total write-offs creates the "net write-off" amount 10 used to determine the annualized level of bad debt expense. 11

12 Staff calculated the annualized bad debt expense by examining the ratio between billed revenues, net of gross receipt taxes, for the twelve month period ended December 31, 2015, and 13 the actual 12-month history of billed revenues that were never collected (net write-offs) for the 14 15 twelve months ended June 30, 2016. From this information a bad debt ratio was derived, which was then applied to Staff's annualized, weather normalized level of retail revenues to obtain the 16 annualized level of bad debt expense. The apparent lag time between the net retail sales and 17 actual net write-offs in Staff's calculation is consistent with KCPL's position on how bad debt 18 write-offs are accounted. 19

KCPL asserts that it takes approximately six months for a customer's unpaid bill to be 20 written off after the customer receives service. Staff's adjustment for bad debt expense adjusts 21 22 the test year results to reflect a level of bad debt expense that is consistent with Staff's annualized level of retail revenue. Adjustment E-174.1 in Staff's Accounting Schedules reflects 23 an annualized level of bad debt expense. 24 25 Staff Expert/Witness: Matthew R. Young

2. Dues and Donations

Staff reviewed the list of membership dues paid and donations made to various organizations that KCPL charged to its utility accounts during the test year. Staff in the current

1	case used the four criteria Staff used in C
2	donations expenses should not be included in
3	(1) the expenses are involuntation
4	(2) the expenses are supporti
5 6	performed by other organi dues;
7 8	(3) the expenses are associated been demonstrated to provi
9	(4) the expenses represent cos
10	increased service quality to
11	Staff's adjustments are identified as follows
12	Adjustment E-228.4 and E-201.4.
13	In regard to the first criteria listed a
14	charitable organizations as a below-the-line
15	included in the determination of its revenue re
16	While Staff recognizes the important
17	those that do not provide any direct benefit to
18	of safe and adequate service should be exclude
19	recovery in rates of donations made by re
20	contribution on behalf of the rate-paying cu
21	from the Company's revenue requirement.
22	a. Edison Electric Ins
23	According to information obtained f
24	association of investor-owned electric utilities
25	EEI information, Staff determined that the prin
26	the electric utility industry in the legislative
27	engagement in lobbying activities.
28	In Case No. ER-82-66, a prior KCP
29	following:

Case No. EO-85-185 to establish when dues and customer rates:

ry ratepayer contributions of a charitable nature;

ive of activities which are duplicative of those izations to which the Company belongs or pays

ed with active lobbying activities which have not vide any direct benefit to the ratepayers; or,

sts of other activities that provide no benefit or the ratepayer.

on Schedule 10 of Staff's Accounting Schedules:

bove, KCPL accounted for all donations made to expense amount, and consequently they are not equirement.

nce of charitable contributions, donations such as ratepayers and are not necessary for the provision led from KCPL's revenue requirement. In addition, egulated utilities would constitute an involuntary stomer, and thus, those donations were excluded

stitute ("EEI") Dues

from the EEI website (www.eei.org), EEI is an and industrial affiliates. Based upon its review of mary function of EEI is to represent the interests of and regulatory arenas. This role includes EEI's

PL rate increase case, the Commission stated the

1 2 3	until the Company can be activities that were the causal f must disallows EEI dues as an
4	This position has been re-affirmed by the Com
5	In Case No. ER-83-49, another KCPL
6	Order that EEI dues:
7	would be excluded as an exp
8 9	quantify the benefit accruing to shareholders.
10	In Case Nos. EO-85-185 and EO-85-224, KC
11	and Order regarding the need for the utility
12	shareholders:
. 13	The argument that allocation
14 15	lessen the cost of service to the the dues, misses the point.
16	It is not determinative that the
17	ratepayer is greater than the determining factor is what provide
10	allocated to the ratepayer as o
20	obvious that the interests o
21	consistently the same as those
22	there is benefit accruing to the
24	as well. The Commission finds
25	has been informed in prior ra
26	quantified benefits from memb
27 28	done herein. Therefore, no port this case. ⁸¹
29	In the response to Staff Data Request 104.3,
30	dues paid in the test year were booked "below
31	benefits most of the expenses of EEI, KCP
32	ratepayers from participation in EEI. Conseq
33	included "above the line" in test year expense f

 ⁸⁰ See Re: Kansas City Power & Light Co., 25 Mo. P.S.C. (N.S.) 229, 245 (1982).
 ⁸¹ See In the Matter of Kansas City Power & Light Co., 28 MO P.S.C. (N.S.) 228, 259 (1986).

etter quantify the benefit and the factor of the benefit, the Commission expense.⁸⁰

nmission in subsequent rate proceedings.

rate case, the Commission stated in its Report and

bense until the company could better both the company's ratepayers and

CPL rate cases the Commission stated in its Report to allocate EEI benefits between ratepayers and

on is not necessary if the benefits ratepayers by more than the cost of

e quantification of benefits to the he EEI dues themselves. The portion of those benefits should be opposed to the shareholder. It is of the electric industry are not of the ratepayers. The ratepayers the entire amount of EEI dues if shareholders from EEI membership this to be the case. The Company ate cases that it must allocate its ership in EEI. That has not been tion of EEI dues will be allowed in

KCPL identified that approximately 93% of EEI the line." Although KCPL allocated most of the PL failed to identify or quantify any benefit to quently, Staff removed that amount of EEI dues from KCPL's cost of service, consistent with prior

1	Commission Bonart and Onders Re-CO P
1	Commission Report and Orders. Staff's adju
2	Staff's Accounting Schedules: Adjustment E
3	Staff Expert/Witness: Michael Jason Taylor
4	3. <u>Miscellaneous Test Year</u>
5	In its direct filing, KCPL included A
6	of miscellaneous adjustments totaling a redu
7	There are several categories of miscellaneous
8	a. Remove equity-related
9	b. Reclassify the costs o
10	b. Miscellaneous coding of
12	d. Remove the effect of
13	comply with the Repor
14	Staff has reviewed and reflected the
15	E-21.3, E-41.2, E-60.1, E-62.2, E-76.1, E-
16	E-198.2, E-199.1, E-201.2, E-201.3, E-205.1,
17	Staff Expert/Witness: Matthew R. Young
18	4. Legal Fee Reimbursemen
19	In its direct case, KCPL included Ad
20	legal fee reimbursement that was amortized o
21	Missouri jurisdictional balances of these rein
22	KCPL's books and records. The reimburseme
23	This regulatory liability amortization v
24	three (3) years beginning January 27, 20
25	ER-2012-0174. This amortization expense is
26	Adjustment E-206.1 in Staff Accounti
27	cost of service.
28	Staff Expert/Witness: Keith Majors

ustments are identified as follows on Schedule 10 of E-228.5, E-201.6, and E-130.4.

Adjustments

Adjustment CS-11 which includes several categories action of \$7,084,630 to its test year cost of service. adjustments within CS-11, such as adjustments to: incentive compensation; of non-recoverable dues and expense reports to

corrections that occurred after the test year; and accounting entries made during the test year to t and Order in Case No. ER-2014-0370

ese adjustments in Staff adjustments E-4.2, E-21.2, -77.2, E-79.2, E-85.1, E-87.1, E-154.2, E-180.3, E-228.2, E-228.3, E-229.1, E-229.2, E-239.2.

nt Amortization

djustment CS-115 to remove the amortization of a over three (3) years, in File No. ER-2012-0174. The nbursements are treated as regulatory liabilities on ent was related to personal injury claim legal fees.

was amortized as a reduction to cost of service over 013 - the effective date of rates in File No. no longer being recorded by KCPL.

ing Schedule 9 removes this amortization from the

1	5. <u>Debit/Credit Card Accep</u>
2	In February 2007, KCPL implemented
3	offer utility ratepayers a simplified, quick, co
4	accounts electronically. KCPL has impleme
5	The first agreement is with Paymentech, LLC
6	Bank, N.A., and is for credit and debit card p
7	Inc. ("Speedpay"), a subsidiary of E Comm
8	Western Union Company), and is for ATM
9	telephone. Paymentech and Speedpay act
10	payments to KCPL. Payment options avail
11	payment over the phone, utilizing the Inter
12	payment through the KCPL website. Custon
13	the website: one time payments, or recurring
14	absorbed by KCPL and later built into rates;
15	are not charged any direct transaction fees.
16	2007, customer participation has been gradual
17	into the future as more customers become a
18	increases, the per unit transaction cost to KC
19	have declined
20	Staff included in its cost of service an
21	debit card program based upon the total card
22	months ended June 30, 2016, to represent an o
23	Staff Expert/Witness: Michael Jason Taylor
24	6. Accounts Receivable Bank
25	KCPL sells its accounts receivable to I
26	("KCREC"), an affiliated entity. This progra
27	provides access to funds through lines of credi
28	elimination of the need to attempt to collec
29	collection lag associated with its CWC require
30	because cash is generated by the sale of r

<u>otance Program</u>

d a Debit/Credit Card payment program designed to onvenient way to pay their bills, and to manage their ented the program through two service agreements. C ("Paymentech"), a subsidiary of JPMorgan Chase payments. The second agreement is with Speedpay, merce Group Products, Inc. (a subsidiary of The M Card and debit card payments made over the as third party facilitators for the processing of ilable to customers through the program include eractive Voice Response System ("IVR"), and/or mers are offered two options when paying through g payments. The cost for providing this service is therefore, customers who use this payment option Since the introduction of the program in February lly increasing. Participation is projected to increase aware of the program. As customer participation CPL for providing the debit/credit payment service

annualized amount associated with the credit and level and per unit transaction cost as of the twelve ongoing level of costs (Adjustment E-172.3).

<u>k Fees</u>

Kansas City Power & Light Receivables Company ram increases immediate cash flow to KCPL and it. As a result of the immediate cash flow, and the ct on its accounts receivable, KCPL reduces the ement. Ratepayers may benefit from the program receivables instead of being collected from the

1	ratepayers. The effect of the selling of account
2	shortening the overall revenue lag and reduc
3	purchasing the accounts receivable from KCl
4	normal period of time, based on the Commiss
5	Tokyo-Mitsubishi UFJ, Ltd. ("BTM") fees as
6	As long as the fees KCPL pays to accelerate
7	are less than the revenue requirement deci
8.	reasonable likelihood that the sales of account
9	This process works as follows:
10	KCPL sells its elect
11	recourse basis to KC
12	KCREC sells an und
13	Receivables Corpor
14	BTM.
15	Victory issues comm
16	receivables from KC
17	KCREC uses the case
18	for the receivables.
19	 KCREC gives a prot
20	the partial payment a
21	 KCREC pays Victor
22	KCREC pays KCPL
23	The adjustment for bank fees relates to the
24	included the test year level of bank fees paid
25	Accounting Schedule 10. Adjustment E-176.3
26	and Staff's annualized level of bank fees.
27	Staff Expert/Witness: Michael Jason Taylor
28	7. La Cygne Regulatory Asse
29	As a result of environmental equipm
30	LaCygne plant during 2015. KCPL proposed
31	became obsolete KCPI also further proposed
20	Gue user period once the LaCurre environment
32	nve-year period once the LaCygne environm

ints receivable is that KCPL receives monies faster, cing KCPL's revenue requirement. It is the entity PL that has to wait for the customers to pay over a sion's billing rules. KCPL has to pay The Bank of sociated with the selling of the accounts receivable. its cash recovery through the sale of its receivables rease from the shorter collection lag, there is a ts receivable provide a customer benefit.

tric receivables daily at a discount and on a non-CREC.

divided interest in the receivables to Victory ration ("Victory"), a wholly-owned subsidiary of

mercial paper to fund the purchase of the CREC.

sh it receives from Victory to partially pay KCPL

missory note to KCPL for the difference between and the total discounted purchase price.

ry interest, program fees, and a commitment fee. interest on the promissory note.

cost of the sale of its accounts receivable. Staff by KCPL to KCREC as Adjustment E-176.2 on 3 reflects the difference between the test year level

et – Obsolete Inventory

nent upgrades that were placed in service at its to remove from rate base certain spare parts that ed a write-off of spare parts be amortized over a nental equipment was placed into service. After

completion of the LaCygne upgrades, KCPL removed the spare parts from rate base and included an annualized amount of amortization expense in its cost of service for this rate case 2 3 filing.

In the previous KCPL rate case, Case No. ER-2014-0370, both the Company and Staff 4 5 removed spare parts from rate base and included an annualized amount of amortization expense in its cost of service for the direct filing (Adjustment E-21.6). In KCPL's 2015 rate case, Staff 6 indicated it expected KCPL to remove from the amortization adjustment any spare parts that can 7 8 be considered "used and useful" at other KCPL plant facilities. Similarly, Staff also expected KCPL to offset the obsolete inventory adjustment with any residual or scrap value it realizes 9 upon the sale or other disposition of the spare parts. Staff recommended the Commission allow 10 KCPL to amortize, over a five-year period, the obsolete inventory levels determined at the end of 11 the true-up period and track any over-recovery associated with the amortization in order for such 12 over-recovery to be addressed for future treatment in subsequent rate proceedings. In this case, 13 Staff has reflected an annualized amount to reflect the agreed five-year amortization for 14 LaCygne's obsolete spare parts inventory. 15 Staff Expert/Witness: Cary G. Featherstone 16

8. Lease Expense

17

Lease expenses are those costs incurred by KCPL for the leasing of its corporate 18 headquarters and other items. Staff examined these costs for the test year ended December 31, 19 2015, and update period through June 30, 2016. 20 Staff verified that the leases currently in effect are planned to remain in effect at the same 21 base rent as what is presently charged to KCPL in the existing lease agreement. Also, Staff 22 confirmed with KCPL that no lease is set to expire as of June 30, 2016 and that none of the 23 current lease terms within each of its agreements will change materially from those in effect 24 25 during the test year.

When KCPL relocated to its current headquarters, it was allowed 270 days (nine months) 26 27 of rent-free time, called an abatement period, as part of the lease agreement. In the 2010 rate 28 case, No. ER-2010-0355, KCPL agreed to establish a regulatory liability to account for the rate expense collected in rates, but not incurred during the abatement period. These costs were 29 amortized and returned to ratepayers over a five-year period that ended on April 30, 2016. In the 30

1	2014 rate case, No. ER-2014-0370, KCPL ag
2	regulatory liabilities and regulatory assets th
3	been fully recovered from, or fully returned,
4	two months of amortizations have been ov
5	December 31, 2016, true-up, eight months
6	situation will continue through the effective
7	agreement, KCPL has tracked the over-return
8	years. Staff has captured the over-returned a
9	test year is reflected in Adjustment E-229-4.
10	Staff Expert/Witness: Antonija Nieto
11	9. <u>Insurance Expense</u>
12	Staff's recommended treatment of Ins
13	asset to be included in rate base and amortiz
14	annualizing the level of insurance expense ar
15	to KCPL's cost of service. Insurance expe
16	parties by utilities against the risk of financial
17	Utilities, like non-regulated entities,
18	minimize their liability associated with unar
19	injury from accidents. Certain forms of
20	Premiums for insurance are normally paid in
21	the insurance vendor in advance of the policy
22	normally treated as prepayments, with the am
23	amortized to expense ratably over the life
24	unamortized balance of the prepaid insurance
25	13 month average balance) is included in r
26	expense included in rates. Staff witness Mich
27	for prepayments in the Rate Base section of St
28	During the audit, Staff reviewed KCP
29	insurance:
30 31	Commercial CrimeFiduciary Liability

agreed to track the amount of any over collections of hat were being amortized to cost of service, but had l, to ratepayers. As of the end of the update period, ver-returned to ratepayers. At the time of Staff's is of this item will have been over-returned; this ive date of new rates. Pursuant to the tracking med amount, and proposed to amortize it over three amount as of June 30, 2016; this adjustment to the

surance Expense is to treat prepaid insurance as an zed ratably over the life of the insurance policy by nd allocating an appropriate portion of the expense ense is the cost of protection obtained from third l loss associated with unanticipated events.

s, routinely incur insurance expense in order to anticipated losses for property assets and personal insurance reduce ratepayer's exposure to risk. advance by utilities, such as the utility payment to by going into effect. These insurance payments are nount of the premium being booked as an asset and is of the period the insurance is in force. The ce account (either the period-ending balance or a rate base, with an annualized level of insurance hael Jason Taylor discusses the rate base treatment taff's Cost of Service Report.

PL's insurance policies for the following forms of

1 2 3 4 5 6 7 8 9 10 11 12	 Directors and Offic General Liability/L Excess Directors & Excess Liability Excess Fiduciary L Workers Compensa Excess Workers Co Property Cyber-Security Lial Labor Management Auto Liability Bonds
13	Staff reviewed the policies and verified the cu
14	An annualized amount was determined and a
15	GMO. KCPL will renew various insurance p
16	part of its True-Up audit, Staff will revie
17	adjustments. The same methodology used to
-18	will be used to annualize Insurance Expense
19	KCPL's portion of the insurance costs are refl
20	Staff Expert/Witness: Antonija Nieto
21	10. <u>Injuries and Damages</u>
22	associated with injuries and damages using a
23 24	by KCPL and naid to entities that had an
25	damages relate to insurance claims that are no
26	of claims associated with general liability, wor
27	Staff analyzed ten years of data and
28	payments for 2013 through 2015 would be a
29	with injuries and damages. Based upon Staff
30	against KCPL, Staff determined that use of a
31	allowance for this item based on the widely fl
32	normalization of known and measurable chan
33	period is consistent with KCPL's method of ad
I	

cers (D&O) Liability Jmbrella & Officers

liability ation ompensation

bility t Trust Fiduciary

current insurance premiums for each insurance type. Allocated between KCPL and its affiliates, including policies after the update period of June 30, 2016; as ew these policies and recommend any necessary o annualize Insurance Expense as of June 30, 2016 for December 31, 2016. The annualized levels for lected in Adjustments E-208-1 and E-209-3.

juries and damages is to normalize KCPL's costs a three-year average of actual cash payments made injury and/or claim against KCPL. Injuries and ot covered by insurance policies and usually consist orker's compensation, and auto liability.

I determined a three-year average of actual cash appropriate to normalize KCPL's costs associated C's review of prior years' cash payments for claims a three-year average was the most appropriate rate luctuating levels of cash payments over time. This ages of the actual cash payments over a multi-year djusting injuries and damages in this rate case.

1	Adjustment E-209.2 reflects a normal
2	Staff Expert/Witness: Michael Jason Taylor
3	11. <u>Property Tax Expense</u>
4	Staff's recommended treatment of Pr
5	based upon property that is in-service on Jar
6	by Staff's property tax ratio derived from
7	property tax expense in order to include in rat
8	Each year KCPL is billed by each o
9	jurisdiction over KCPL's property. Tax bill
10	KCPL owns exclusively on January 1 of that
11	property owned as of January 1 of each
12	authorities until December 31 of that same ye
13	the state of Kansas, where one-half of the ye
14	quarter of the following year. The test yea
15	December 31, 2015, and the true-up period i
16	Since the test year in this case is December 3
17	taxes based on the property KCPL had in-ser
18	tax ratio based on actual 2015 property tax p
19	In effect, the 2015 tax payments for property
20	charged to expense to the assessed property-
21	This ratio of property taxes applied to the Ja
22	the amount of property taxes expected to be d
23	year in this case ended December 31, 2015, pr
24	the January 1, 2016 date and this calculation
25	be for 2016. Historically, both Staff and KCP
26	rate paid for the previous year to the property
27	For the current rate case, Staff obtaine
28	KCPL owned on January 1, 2016 and then me
29	current information available. The 2015 pro
30	actual amount of property tax paid by KCPL
1	

lized level of costs for injuries and damages.

Property Tax Expense is to annualize property taxes muary 1, 2016, by multiplying that property amount historical tax payments. Staff adjusted test year ites the annualized level of 2016 property taxes.

of the local and state taxing authorities that have Is for the year are based (assessed) on the property calendar year. The property taxes assessed on the year are typically not due to the various taxing ear. The exception is the property taxes assessed in ear's property taxes are not due until late in the first ar used in this case is the 12-month period ended is the 12-month period ended December 31, 2016. 31, 2015, Staff determined the annualized property rvice on January 1, 2016. Staff applied a property bayments divided by January 1, 2015 taxable plant. ty taxes develops a relationship to the tax amounts -which is always based on the first day of the year. anuary 1, 2016 assessed value of the plant provides due at the end of the year in 2016. Because the test roperty tax expenses for 2016 were annualized as of is what Staff expects KCPL's property tax cost to PL typically calculate this value by applying the tax owned at the start of the current year.

ed from KCPL the total amount of taxable property nultiplied it by the 2015 property tax ratio, the most operty tax ratio is calculated by dividing the total L in 2015 by the total cost of the taxable property

1	owned on January 1, 2015. Since the actu
2	assessments of the January 1, 2015 proper
3	estimates the amount of property taxes that
4	property tax was then increased by KCP
5	("PILOTs") applicable to non-taxable proper
6	Staff recommends this method of cal
7	since it relies on the actual January 1, 201
8	recent, known effective tax rate (2015). This
9	change in the rate of taxation for 2016 that is
10	Staff's approach is consistent with
11	favorable rulings from the Commission in p
12	Report and Order issued in Case No. ER-200
13	Staff recommends that the
14 15	balance by the ratio of the Jam
16	to the amount of property ta
17	property tax cost of service u
18	and levies. The Commissio
19	substantial evidence supports
20	in lavor of Staff.
21	Adjustment E-257.1 reflects Staff's annualize
22	Staff Expert/Witness: Matthew R. Young
23	12. <u>Rate Case Expense</u>
24	Rate case expense is the sum of the
25	case. In the instant case, KCPL has incu
26	regulatory consulting, and outside consu
27	discretionary rate case expense to both ratep
28	expense assigned to shareholders is based upo
29	KCPL's requested rate increase. This ratio w
30	and will ultimately be based on the ratio of t
31	requested rate increase.

tual property taxes paid in 2015 was based on the erty, this ratio applied to the January 1, 2016 plant will be due at the end of 2016. The estimated 2016 PL's 2016 contractual payments in lieu of taxes rty.

lculation as providing the best available information, 16 balance of KCPL's property and uses the most s method does not attempt to estimate or project any s not known as of the update period of June 30, 2016. h that taken previously, which received several prior cases, notably in KCPL 2006 rate case. In its 06-0314, the Commission stated the following:

Commission calculate property tax e January 1, 2006 plant-in-service nuary 1, 2005 plant-in-service balance axes paid in 2005. KCPL wants the updated to include 2006 assessments on finds that the competent and Staff's position, and finds this issue

ed property taxes.

costs a utility incurs in preparing and filing a rate arred expenses in conjunction with legal counsel, altants. Staff recommends assigning KCPL's payers and shareholders. The amount of rate case on the ratio of Staff's recommended rate increase to vill be updated throughout the remainder of the case the Commission approved rate increase to KCPL's

1	a. Background
2	Generally, Staff divides rate case exp
3	before the utility's next rate case and inc
4	requirement. Typically, this cost is not "am
5	recovery of this expense in rates is not
6	consideration of over or under recovery.
7	However, when KCPL's Regulatory
8	than four years, Staff did not oppose the "def
9	that KCPL requested in each of the Regula
10	ER-2007-0291, ER 2009-0089, and ER-2010-
11	cases, as adjusted, Staff used a "defer and amo
12	requirement to be included in the following r
13	approach to rate case expense, KCPL deferr
14	separate vintage deferral and amortized each of
15	The rate case expense KCPL incurred after the
16	until the next rate case for consideration of rec
17	In Case No. ER-2012-0175, Staff return
18	establishing an ongoing level of rate case ex
19	because the Regulatory Plan rate cases were of
20	expenses incurred for the 2010 rate case wa
21	current case, Staff has removed this amortiza
22	recovery of deferred rate case expense.
23	b. Recommendation
24	In addition to recognizing the end of t
25	incurred for the four rate cases addressed in
26	Commission approve a normalized amount of
27	multiplied by the ratio of the Commission ap
28	increase. Staff recommends that any subseque

29

pense over the period of time it estimates will pass cludes an annual amount in the utility's revenue nortized" for ratemaking purposes, and the utility's tracked against its actual rate case expense for

Plan contemplated four rate case filings over less ofer and amortize" or "vintage accounting" approach latory Plan rate cases—Case Nos. ER-2006-0314, 0-0355. For the rate case expenses for each of these nortize" approach to calculate the associated revenue rate case. Under this special "defer and amortize" red the rate case expenses for each rate case as a of those vintage deferrals over a multi-year period. he end of the true-up period in one case was deferred recovery.

arned to its more typical normalization approach for xpense to include in KCPL's revenue requirement completed. However, an amortization of rate case was not completed until September, 2015. In the ation expense from the test year to reflect the full

In addition to recognizing the end of the amortizations of the rate case expenses KCPL incurred for the four rate cases addressed in its Regulatory Plan, Staff is recommending the Commission approve a normalized amount of rate case expense based on KCPL's incurred costs multiplied by the ratio of the Commission approved rate increase to the Company's requested increase. Staff recommends that any subsequent over or under-recovery by KCPL of the ordered amount should not be recognized in future cases.

Since rate case expense is typically end-loaded (i.e. a material amount of cost is incurred near the end of the case, i.e. evidentiary hearings), Staff's examination of rate case expense 2 resulting from this case is not complete. Staff will continue to examine this case's rate case 3 expense and update total rate case expense until a cut-off point is determined. 4 5 Staff Adjustment E-224.4 reflects Staff's recommended rate case expense, calculated as described above. Staff Adjustment E-224.2 removes the 2010 Rate Case amortization from the 6 7 test year, and Staff Adjustment E-224.3 removes test year rate case expense incurred in Case No. 8 ER-2014-0370. 9 c. Rate Case Expense Sharing Recommendation 10 Rate case expense can be defined as all incremental costs incurred by a utility directly related to an application to change its general rate levels. These applications are usually initiated 11 12 by the utility, but rate case expenses may also be incurred as a result of the filing of an earnings complaint case by another party. The largest amounts of rate case expense usually consist of 13 costs associated with use of outside witnesses/consultants and outside attorneys hired by the 14 15 utility to participate in the rate case process. Generally, utility management has a high degree of control over rate case expense. 16 Attorneys, consultants, and other services can either be provided by in-house personnel or can be 17 18 procured by an outside party. Some Missouri utilities employ in-house counsel and primarily utilize internal labor to process rate filings; therefore, the use of outside attorneys in rate 19 proceedings is not always necessary. However, KCPL currently procures outside counsel, in 20 addition to in-house attorneys who have significant prior experience in Missouri rate 21 proceedings. Rate case expenses generally do not include internal labor costs, as those are 22 23 included in the cost of service through the payroll annualization and are not incremental 24 expenses resulting from the rate case process. 25 During rate proceedings, and generally in the utility regulatory process, there are four broad categories of costs involved: 26 1) The cost incurred by the Commission for itself and its Staff; 27 2) The cost incurred by the Public Counsel; 28 3) The cost incurred by interveners in Commission proceedings; and 29 4) The cost incurred by the utility in the regulatory process. 30

Category 1 is the cost incurred by the Commission. This includes all operating expenses, 2 salaries, wages, and benefits of the Commission and its Staff. The Commission's operating expenses are limited to the amount the Missouri General Assembly appropriates for that purpose. 3 An annual amount of operating expenses are assessed by the Commission and paid by the 4 5 utilities it regulates. The utility, in turn, passes on this expense to its ratepayers through the rate case process. The utility is not charged the direct cost of processing its filings or regulating 6 7 company specific activities. KCPL is charged based on an assignment of the Commission's 8 budget for regulation of the electric industry, with this amount allocated to KCPL based on the -9 percentage of KCPL regulated revenues of the total electric regulated revenues in Missouri. Category 2 is the cost incurred by Public Counsel. Public Counsel represents the public

Category 2 is the cost incurred by Public Counsel. Public Counsel represents the public
and interests of utility customers in proceedings before the Commission. An amount for Public
Counsel's annual operating expenses is appropriated by the Missouri General Assembly which is
sourced from the Commission's assessment.

Category 3 is the cost incurred by interveners in Commission proceedings. Interveners may be involved in Commission proceedings for a variety of reasons, but most frequently related to revenue requirement and rate design issues raised in general rate proceedings. Some intervening parties represent large individual utility customers or groups of customers. There are several interveners in this case, some of whom have retained their own counsel and experts to review KCPL's rate increase. Each intervener is responsible for its own rate case expenses.

20 Category 4 is the cost incurred by the utility in the regulatory and rate setting process. The Commission has generally allowed utilities to pass through to ratepayers the full amount of 21 22 normalized and prudently incurred rate case and regulatory expenses to its rate payers in the rate 23 setting process. When utilities are allowed to pass full rate case costs to ratepayers, category 4 24 (the utility's cost) is the only category of rate case participants in the rate case process that does not face an inherent limit in the amount of rate case expense it chooses to incur. The other three 25 26 categories of rate case participants are limited in the amounts of rate case expense they can incur 27 by the budgetary decisions of the General Assembly or by the willingness of the intervening 28 parties to fund rate case activities. However, with full rate case expense recovery, the utilities 29 are free to plan their rate case activities with the knowledge that the associated cost of those 30 activities is highly likely to be passed on to a third party; i.e., its customers.

1 Both ratepayers and shareholders benefit from the rate case process. Customers have a 2 vested interest in ensuring that they pay just and reasonable rates for safe and adequate service 3 and shareholders have a vested interest in ensuring an opportunity to receive a reasonable return on their investment. If the utility determines that the rates it charges its customers are 4 5 inadequate, the rate making process before the Commission is the sole venue to remedy that situation. However, utility regulation in Missouri is, at least in part, premised upon an 6 7 assumption that the utility is not likely in all circumstances to act in the best interests of its 8 customers. This assumption points out the inequity of having customers finance a utility's efforts to increase rates that may be ultimately found by the Commission to be excessive or 9 unreasonable in amount.

10 11 The practice of allowing a utility to recover all, or almost all, of its rate case expense 12 from customers creates a disincentive to control rate case expenses incurred by the utility. For 13 all other parties to the rate case process, the funds spent are ultimately limited by a budget and 14 financial restraints. Having significant financial resources to fund rate case activities combined with the ability to pass through the entire amount of expenses creates what can be perceived as 15 an unfair advantage over all other parties in the rate case process. 16 17 Some expenses incurred for which the utility has a high level of discretion and control are not recovered by the utility in the ratemaking process, even if such expenditures are considered 18 19 "prudent" from the perspective of the utility. For example, charitable donations have historically not been an includible expense in the cost of service. Donations are defined as discretionary 20 amounts paid to individuals or organizations for charitable reasons, with no direct business 22 benefit. While the utility may believe it has a responsibility to be a "good corporate citizen," 23 charitable contributions, if included in the cost of service, would equate to an involuntary 24 contribution by the rate payer. Costs associated with political activities (lobbying) are another 25 type of cost usually not allowed to be included in customer rates. These are costs not necessary 26 to the provision of utility service in Missouri. 27 On April 27, 2011, the Commission issued an Order establishing Case No. AW-2011-0330, and within this docket directed its Staff to investigate the Commission's current 28 rules and practices regarding recovery of rate case expense in rates by Missouri utility companies. In particular, the Commission asked whether the current policy of generally allowing rate recovery of the entire amount of a utility's incurred rate case expense should be

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29 30

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1	changed either by assigning some portion
2	instituting an overall "cap," or limit, on the
3	utilities. The Commission stated its conc
4	testimony presented in recent rate cases and
5	case expenses by Missouri utilities. As pa
6	directed to investigate the practices of other
7	of rate case expense.
8	Several alternative approaches we
9	consideration in its Report in Case No. AW
10	of the options for rate case expense recover
11	percentage recovery of rate case expense t
12	successfully awarded by the Commission.
13	Staff presented this sharing mechan
14	Service report and testimony in Case No
15	The Commission ordered a sharing of rate of
16	ER-2014-0370, on page 72:
17 18 19 20 21 22 23 24 25 26	The Commission finds that in under the facts in this case, shareholders to cover a portion method to encourage KCPL would be to link KCPL's perc to the percentage of its rate in just and reasonable. The approach would directly lin expense to both the reasonabl dollar value sought from custo
27 28 29 30 31 32 33 34 35 36	The Commission concludes recovery of its rate case expe revenue requirement it is gra Order, compared to the amou increase originally requested. over three years. The Commis to require a full allocation KCPL's depreciation study, reu study is required under Comm five years. [footnotes omitted]

on of these costs to the utility's shareholders, or a amount of recovery of rate case expense in rates by cern over rate case expense issues was related to d the recent escalation in the amount of claimed rate art of its investigation into these matters, Staff was r public utility commissions regarding rate recovery

rere discussed by Staff for the Commission's 7-2011-0330 that was filed in September 2013. One bry presented in Staff's Report was tying a utility's to the percentage of its rate increase request it is

nism, along with other alternatives in the Cost of b. ER-2014-0370, KCPL's most recent rate case. case expenses in its Report and Order in Case No.

n order to set just and reasonable rates the Commission will require KCPL on of KCPL's rate case expense. One to limit its rate case expenditures centage recovery of rate case expense acrease request the Commission finds Commission determines that this nk KCPL's recovery of rate case pleness of its issue positions and the pomers in this rate case.

a that KCPL should receive rate enses in proportion to the amount of anted as a result of this Report and ount of its revenue requirement rate This amount should be normalized ssion also finds that it is appropriate to ratepayers of the expenses for ecovered over five years, because this mission rules to be conducted every

1	In accordance with the Commission's Rep
2	expense sharing with regard to KCPL's rate
3	Staff concludes that this sharing of
4	following reasons:
5	1) This sharing mechanism
6	KCPL rate case, Case No
7	2) Rate case expense sha
8	disincentive, on the u
9	reasonable levels;
10	3) There is a high likelihoo
11	through the rate case
12	Commission to not be in
15	4) Both fatepayers and shall ratepayer receiving safe
14	rate and the shareholder
16	return on investment.
17	Staff intende te exemine charing ontions fou
17	Start intends to examine sharing options for
18	for major utilities, and may advocate a d
19	percentages, depending upon the circumstand
20	Staff Expert/Witness: Matthew R. Young
21	13. Depreciation Study
22	Depreciation study expense is the
23	depreciation study required in Commission
24	"any electric utility which submits a general
25	Its depreciation study, dat
26	However, an electric utility n
27	database or property unit
28	commission's staff received t
29	three (3) years prior to the ut
30	or before five (5) years ha
31	commission's staff received
32	property unit catalog from the
33	Staff's interpretation of this rule is that a
34	Consequently, Staff obtained the most recent

ort and Order, Staff recommends the same rate case case expense in this case.

expenses is appropriate in this proceeding for the

n was ordered by the Commission in the recent lo. ER-2014-0370;

aring creates an incentive, and eliminates a tility's part to control rate case expense to

od that some positions advocated for by utilities process will ultimately be found by the the public interest; and

reholders benefit from the rate case process; the and adequate service at a just and reasonable receiving an opportunity to receive an adequate

rate case expense in future general rate proceedings different approach to sharing, or different sharing ces of each individual filing.

cost associated with obtaining and supporting the rule 4 CSR 240-3.160(1)(A). This rule states that, rate increase request shall submit...":

tabase and property unit catalog. need not submit a depreciation study, catalog to the extent that the hese items from the utility during the tility filing for a general rate increase we elapsed since the last time the a depreciation study, database and utility.

depreciation study has a useful life of five years. cost incurred by KCPL to retain a consultant for the

purposes of conducting a depreciation stud
needed. The net cost was included in the
reflected in Staff adjustment E-219.2.
Staff Expert/Witness: Matthew R. Young
14. <u>Regulatory Assessments</u>
a. Public Service Co
The Public Service Commission Asso
all regulated utilities operating under the jur
Commission's operating costs for regulatir
annualized using the latest assessment available
information obtained from the Commission's
compared to the PSC Assessment amount i
2015, to form the basis for the adjustment in
identified on Schedule 10 of Staff's Accounti
Staff Experts/Witnesses: Antonija Nieto and A
b. FERC Assessment
KCPL is also assessed a regulatory fe
("FERC"). Staff included an annualized level
period ending June 30, 2016. Staff's adj
Accounting Schedules, Adjustment E-216.1.
Staff Experts/Witnesses: Antonija Nieto and I
15. <u>Customer Deposits – Inte</u>
Staff's recommended treatment of inte
interest expense in the expense portion of th
deposits were deducted in the calculation of r
deposits consistent with the level of custome

dy⁸², including the expense to update the study⁸³ as cost of service as a five-year normalized expense

ommission Assessment Fee

essment ("PSC Assessment") is an amount billed to risdiction of the Commission as an allocation of the ng those utilities. KCPL's PSC Assessment was vailable for the current fiscal year (FY-2017) on records. The updated KCPL PSC Assessment was included in KCPL's test year as of December 31, Staff's accounting schedules. Staff's adjustment is ing Schedules, Adjustment E-217.1. Karen Lyons

ee from the Federal Energy Regulatory Commission el of the FERC assessment based on the 12 month justment is identified on Schedule 10 of Staff's

Karen Lyons

erest Expense

erest expense on customer deposits is to include the ne revenue requirement calculation, since customer rate base. Staff calculated the interest for customer er deposits reflected in the Rate Base - Schedule 2

⁸² Statement of work between GPES and Gannett Fleming for depreciation study dated June 20, 2014.
 ⁸³ Statement of work between GPES and Gannett Fleming for update of generation study dated April 29, 2016.

1	(see discussion in the Rate Base section of
2	base). For this calculation, Staff used the m
3	customer deposit balance to be included in r
4	current prime interest rate published in the V
5	total of 4.50%. The amount of interest rela
6	adjustment to the Income Statement - Sche
7	revenue requirement on Staff's recommended
8	including the customer deposit interest ex
9	adjustment to KCPL's income statement. Ad
10	Staff Expert/Witness: Michael Jason Taylor
11	16. <u>Depreciation - Clearing</u>
12	During the test year, KCPL incurred
13	charged to expense through a clearing accour
14	Staff's Accounting Schedule 5, Staff made
15	booked to the clearing account, Adjustment E
16	Staff Expert/Witness: Karen Lyons
17	17. Economic Relief Pilot Pro
18	The Economic Relief Pilot Program
19	established to deliver energy affordability be
20	Low-income customers are defined as have
21	200 percent of the Federal Poverty Level ("Fl
22	income that a family needs for food, clothing
23	level is determined by the Department of He
24	criteria in determining eligibility in low-incor
25	The Program is designed to provide u
26	monthly. In Case No. ER-2012-0174, total E
27	half of the funding contributed from shareho
28	No. ER-2014-0370, ERPP total annual fundir
29	Company is proposing to lower the annual

.

of this report for Customer Deposits included in rate method outlined in KCPL's tariff which is to use the rate base, and then multiply that number by the most Wall Street Journal (3.50) plus 100 basis points, for a lating to customer deposits has been included as an edule 9. The Commission should base its awarded ed amount of interest relating to customer deposits by xpense amount calculated by Staff as an expense djustment E-173.1 and E-173.2.

I depreciation for transportation equipment that was nt. Because depreciation expense is accounted for in an adjustment to remove the depreciation amount E-232.1.

ogram

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m ("ERPP" or "Program") offered by KCPL was enefits to KCPL's qualifying low-income customers. ving an annual household income no greater than FPL"). The FPL is the set minimum amount of gross ng, transportation, shelter and other necessities. The ealth and Human Services and is used as one of the ome programs.

up to \$65 as a bill credit for up to 1,500 participants ERPP annual funding was set at \$630,000 with oneolders and the other half from ratepayers. In Case ng was doubled to \$1,260,000. In this rate case the

I funding contributed by ratepayers to \$589,984,

•	
1	(\$585,000 for the program and \$4,984 to the
2	The amount is matched dollar for dollar by sh
3	Staff compared Program funding and
4	date of rates ordered in a prior KCPL rate of
5	2016. The currently unspent funding amour
6	from Case No. ER-2014-0370 is \$386,145; fo
7	ratepayer share of those unspent funds is \$270
8	Staff's recommendation is to continu
9	witness Ronald A. Klote's direct testimony
10	\$589,984. Staff further recommends, due to
11	unspent funds, that ratepayer funding be se
12	annually from the balance of unspent funds.
13	Staff also recommends KCPL expand
14	action agencies within its service territory
15	level approved in Case No. ER-2014-0370.
16	service agency currently administering the Pro-
17	level of 1,215.
18	Staff Expert/Witness: Kory Boustead
19	a. Accounting Treatm
20	In a previous KCPL rate case, Cas
21	ratepayers were ordered by the Commission
22	ERPP expenditures. Beginning February 2013
23	ER-2012-0174, KCPL started collecting ERI
24	ratepayer funding was increased in KCPL's
25	described by Staff witness Kory Boustead i
26	increases the test year ERPP expense to inc
27	ERPP funding, at the level recommended by St
28	In Case No. ER-2012-0174, a vintag
29	amortized beginning with the effective date o

Salvation Army for administration of the program). hareholder funds (\$1,179,968 total funding).

Program costs from January 26, 2013, the effective case, Case No. ER-2012-0174, , through June 30, int from Case No. ER-2012-0174 is \$140,700, and for a total of \$526,845 of unspent funds. The 50% 0,000.

ue the amount of program costs filed in Company workpaper CS-44F for ratepayer expenditures of the accumulation of over a half-million dollars in set at \$500,000 annually and \$89,984 be funded

administration of the Program to other community to help achieve the 1,500 monthly participant . Salvation Army is the only non-profit social rogram, which only averages a monthly participant

nent

ase No. ER-2012-0174, KCPL shareholders and n to each provide an equal amount of funding for 13, the effective date of new rates from Case No. RPP ratepayer funding through base rates. ERPP s most recent case, Case No. ER-2014-0370, as in the section above. Staff adjustment E-180.4 clude ERPP ratepayer funding, offset by unspent Staff witness Boustead (above).

ge of deferred ERPP costs was established and of rates in that case. Because the amortization of

1	this vintage has ended, Staff made adjustment
2	the test year.
3	Staff Expert/Witness: Matthew R. Young
4 5	18. <u>Income Eligible Weather</u> <u>Weatherization Program</u>
6	KCPL's Income-Eligible Weatherizati
7	in 2007 as one of several demand respon
8	were implemented as a result of the Stipulat
9	on August 23, 2005 in File No. EO- 200^4
10	Energy Efficiency Investment Act ("MEEIA
11	and demand-side investment mechanism (
12	EO-2014-0095. On that date, KCPL's eli
13	DSIM Rider.
14	On page 102 of the Commission's Se
15	ER-2014-0370 ⁸⁶ the Commission offers the
16	costs:
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Since the Program is an import residents, the Commission com be a valuable goal. To avoid an the Commission finds that coll rates to be preferable. This will the state as most other re- weatherization funds through concludes that KCPL should weatherization program cost conclusion of KCPL's MEEIA costs in future MEEIA applica Program funds recovered pr- unexpended low-income weath through KCPL's base rates expenditures relating to the Program

⁸⁴ The Program was originally called Low-Income Weatherization when it was first designed.
 ⁸⁵ File No. EO-2005-0329 is also referred to as the Kansas City Power & Light Company Experimental Regulatory Plan.

⁸⁶ In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service, Case No. ER-2014-0370.

nt E-180.5 to remove the amortization expense from

<u>ization Program (formally Low Income</u>))

tion Program⁸⁴ ("Program") was initially established nse, efficiency, and affordability programs which ation and Agreement approved by the Commission 05-0329.⁸⁵ On July 6, 2014, KCPL's Missouri A") demand-side management ("DSM") programs ("DSIM") rider became effective in Case No. igible Program costs were recoverable under the

eptember 2, 2015 *Report and Order* for Case No. e following guidance on the recovery of Program

tant service that benefits low-income nsiders continuity of the Program to ny continuity problems in the future, llecting Program funds through base Il also provide for consistency across regulated electric utilities collect h base rates. The Commission d resume recovery of low-income ts in base rates following the Cycle I and cease recovery of these cations. With regard to any surplus reviously through base rates, the therization program funds collected s should be used to offset any ogram.

1 In KCPL witness Ronald A. Klote's direct testimony states, "KCP&L does not plan to recover 2 Income Eligible Weatherization Expense until the liability account gets to a reasonable level. We are proposing to use funds set aside in the account for the present time and set the annualized 3 level to zero."⁸⁷ In Mr. Klote's direct testimony workpaper Adjustment CS-98 MEEIA Expense, 4 there is a notation "Propose to use funds set aside in the liability account for the present time." 5 6 Staff data request 0175 requests the budget and expenditures of the Program for the years 7 2014-2016. According to KCPL's response to data request 0175, during Program year 2014 the 8 annual program budget was \$573,888 with an annual expenditure of \$258,987, allowing 9 28 homes to be weatherized and leaving a remaining balance of \$314,901. It was during this 10 program year the Missouri Department of Economic Development, Division of Energy, 11 appointed the United Services Community Action Agency ("Agency") to replace The City of 12 Kansas City as the weatherization agency in the KCPL service territory. There was a significant 13 ramp up period for the Agency after the change accounting for a significant portion of the 14 unspent funds. In Program year 2015 the annual budget was \$549,817 with \$481,840 spent to weatherize 15 127 homes and leaving a remaining balance of \$67,977. For the current program year 2016, the 16 annual budget is \$573,888. As of September 26, 2016, \$357,520 has been used for weatherization⁸⁸, leaving unspent funds of \$216,368 available through December 31, 2016.

17 18 19 In preparation for a recommendation on funding, Staff auditor Matthew Young requests further data in Data Request 0293 in regards to the total unspent funding amount in the liability 20 21 account. KCPL's response indicates that KCPL's liability account for the Program has a balance 22 of \$1,296,861.94 as of September 30, 2016. Assuming that KCPL's Program costs are \$573,888 23 annually, it will take over 2.25 program years to utilize the unspent funding level. 24 Staff recommends the Commission reject KCPL's proposal to not fund the Income-25 Eligible Weatherization program through base rates at this time. Instead, to allow the unspent funding level to decrease to a reasonable level, Staff recommends the Commission approve 26 continued funding of the Program through rates at a reduced level. A reduced level of ratepayer 27

⁸⁷ In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service, Case No. ER-2016-0285 (Direct Testimony of Ronald A. Klote, filed July 1, 2016) page 53, lines 11-13. ⁸⁸ Staff Data Request No. 0175.

1	funding will allow KCPL to utilize the
2	expenditures of \$578,888 is achieved.
3	Staff Expert/Witness: Kory Boustead
4	a. Accounting Treat
5	When the Program was established
6	recovered them through amortizations in late
7	the funding for the Program was approved to
8	year. The same level of funding was include
9	rate case, Case No. ER-2014-0370. Staff co
10	rates for the Program from February 1, 2013
11	through June 30, 2016 and compared the tot
12	The comparison yielded a balance of unspen
13	expenditures. Staff has included the Program
14	base.
15	Staff adjustment E-181.2 increases t
16	funding recommended by Staff witness Kory
17	Staff Expert/Witness: Matthew R. Young
18	19. <u>Regional Transmission O</u>
19	SPP is a not-for-profit, RTO entity w
20	the transmission assets of its members tran
21	through its Federal Energy Regulatory (
22	Transmission Tariff ("Open Access Tariff" or
23	users (transmission customers, which, in this
24	The Empire District Electric Company, We
25	Consequently KCPL pays SPP an administra
26	on its behalf.
27	Under its Open Access Tariff, SPP
28	annually that enables it to recover 100% of
29	functions, subject to a rate cap. The rate ca
1	

A

balance of unspent funds if the targeted annual

tment

d in 2007, KCPL deferred the Program costs and er rate cases. Beginning in Case No. ER-2012-0174, to be funded through rates at a level of \$573,888 per ided in the rates resulting from KCPL's most recent compared the total funding KCPL collected through 8 (date ratepayers began providing Program funding) otal with the funds spent over the same time period. Int Program funding that was earmarked for Program m liability as of June 30, 2016 as a deduction to rate

test year Program expense to match the level of Boustead above.

rganization ("RTO") Administrative Fees

which maintains functional control over portions of insferred to it and provides transmission services Commission ("FERC") approved Open Access r "OATT"). SPP's costs must be recovered from its s case, are utility companies such as KCPL, GMO, estar Energy, Inc. and other electric companies). ation charge for performing transmission functions

establishes a rate for its administration charge of its total annual administrative costs for RTO ap serves as a limit on the annual administration

							•		P		B 01
2	year-to-yea	year-to-year administrative costs. SPP's administrative rate cap is currently \$.39 per MV									
3	Although t	Although the administrative fee rate cap is still in effect, on December 8, 2015, SPP's Board									
4	Directors a	Directors approved SPP's Finance Committee recommendation to reduce the administrative					nistrative				
5	to \$.37 per	r MWh	for the	calend	lar year	2016.	The fol	lowing	chart re	flects SPI	?'s histori
6	administrat	ive fee r	ate for	the peri-	od of 20	06-2016					
7											
			H	istorica	I SPP A	dminis	trative I	ree per	MWh		
	Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
	Rate	\$.19	\$.19	\$.17	\$.195	\$.210	\$.255	\$.315	\$.381	\$.39	\$.37
8											
9	Staf	f annual	ized SI	PP adm	inistratio	on fees	based or	n the ad	ministra	tive rate	of \$0.37 p
10	MWh effec	tive Jam	ary 1, 2	2016. I	ncluded	in the a	nnualize	d amour	nt are No	orth Amer	ican Electi
11	Reliability	Reliability Corporation ("NERC") fees and Midcontinent Independent System Operator, Ir									
12	("MISO") F	("MISO") RTO administrative fees for point-to-point transmission. Staff's adjustments for RT									
13	Administrat	Administration fees are identified on Schedule 10 of Staff's Accounting Schedules, Adjustme									
14	E-125.2 and	E-125.2 and E-132.1.									
15	Staff Expert	/Witness	: Kare	n Lyons	5						
					_						
16		20. <u>1</u>	ransm	ission F	xpense	-FERC	Account	<u>t 565</u>			
17	KCF	KCPL and GMO are members of the SPP. In 2004, SPP became a RTO responsible :				ponsible f					
18	ensuring re	ensuring reliable supplies of power, adequate transmission infrastructure, and competiti					competitiv				
19	wholesale of	wholesale electricity prices. ⁸⁹ Prior to 2006, KCPL had full functional control over					ol over i				
20	transmissior	transmission system that served its retail customers within its service territory. In Case N					n Case N				
21	EO-2006-01	EO-2006-0142, KCPL filed an application with the Commission to transfer functional control									
22	its transmiss	its transmission facilities to SPP. Most of the parties to that case entered into a Stipulation ar									
23	Agreement	Agreement on February 24, 2006, and the Commission approved the Stipulation and Agreeme						Agreeme			
24	by Order eff	fective o	n June	23, 200	6. The	transfer	of funct	ional co	ntrol of	KCPL's t	ransmissic
25	system to SI	PP was f	inalized	l upon t	he appro	oval by t	he FERO	C on Oct	ober 1, 2	2006.	
İ											
	1										

⁸⁹ Market Protocols for SPP Integrated Marketplace, page 60.

1 | charge in order to provide SPP customers a level of certainty and predictability regarding SPP's Wh. d of e fee rical

> per tric nc. ГО ent

for ive its ю. of nd ent on

Page 134

1 As a transmission customer of SPP, KCPL is charged for point-to-point, base-plan-zonal, and region-wide transmission costs that are booked to FERC Account 565. Point-to-point 2 transmission costs are billed based on Schedule 7 and Schedule 8 of SPP's Open Access tariff. 3 Base-plan-zonal charges and region-wide charges are billed based on Schedule 11 of the Open Access tariff. 6 Base-plan-zonal and region-wide costs are a result of transmission upgrades in the SPP region. The transmission upgrades are directed by SPP's Transmission Expansion Plan to 7 8 ensure the reliability of the transmission system for SPP's members.⁹⁰ The costs of base-plan and region-wide projects are allocated to the SPP region based on the voltage of the project. 9 10 The allocation method is referred to as the Highway-Byway method and is shown in the following table: 12

SPP Base Plan Highway-Byway Allocation Method			
Voltage	Regional (SPP region)	Zonal (KCPL region)	
300 kV and Above	100%	0%	
100-300 kV	33%	67%	
Below 100%	0%	100%	

13	
14	The costs allocated to the SPP region are the
15	a load share. The load share ratio is develop
16	divided by the SPP total load. KCPL's c
17	(Missouri and Kansas), is 7.35%.
18	Staff analyzed KCPL's actual transm
19	KCPL's transmission expenses for the 12
20	** ** since 2009.
21	transmission expenses for the period of 2009-
22	
23	
24	
25	continued on next page

⁹⁰ SPP OATT Tariff.

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11

en allocated to SPP transmission customers based on pped using the transmission customer's network load current load ratio share, on a total company basis

ission expenses for the period of 2009 through 2015. 2-month period ended December 31, 2015, have The following chart reflects KCPL's historical -2015.

_____ -----·-----____ _____ -----_

2

**

**

1

Based on Staff's analysis, KCPL's transmission expenses have significantly increased during 3 those seven years. Staff also analyzed the 12 month period ending June 30, 2016 and determined 4 the upward trend continued during this period. Consequently, Staff included an annualized level 5 of transmission expense based on the 12-month period ended June 30, 2016, the most recent 6 7 costs available. Staff's adjustment for transmission expense is identified on Schedule 10 of Staff's Accounting Schedules, Adjustment E-129.1. Since KCPL's transmission expense has 8 significantly escalated, Staff will review this adjustment in its True-Up audit based on updated 9 10 events and cost information. In October, Staff was notified by KCPL that beginning in November 2016, KCPL will 11 incur costs from SPP that are referred to as "Z2 credits." According to KCPL, SPP purportedly 12 has been delayed since 2008 in implementing revenue crediting for certain transmission service 13 that could not have been provided "but for" directly assigned network upgrades, under 14 Attachment Z2 of the SPP Tariff. According to KCPL, SPP has evidently stated that as a result 15

,	i Alining F. (1997). Tangkin bantu pipur anama pinataka da sera sera sera sera sera sera sera ser
	+
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1	of the necessary software becoming fully
2	distributing credit payment obligations by the
3	provided specific details on how the financia
4	purposes, Staff anticipates KCPL's recomme
5	Staff Expert/Witness: Karen Lyons
6	21. <u>Missouri Flood Amortiza</u>
7	a. 2011 Missouri Riv
8	Maintenance ("NI
9	The Commission authorized KCPL
10	jurisdictional NFOM expense related to the
11	amortization over 5 (five) years beginnin
12	ER-2012-0174. ⁹¹ The test year ending D
13	amortization related to these deferred ex
14	The amortization is included in the test year
15	Income Statement.
16	Staff Expert/Witness: Keith Majors
17	b. 2011 Missouri Riv
18	KCPL received insurance proceeds in
19	the 2011 Missouri River flooding. The Con
20	and return them to customers over 3 (three)
21	Case No. ER-2014-0370.92 Staff Adjustme
22	Statement reflect this amortization.
23	Staff Expert/Witness: Keith Majors

⁹¹ January 26, 2013. ⁹² September 29, 2015.

y operational, it planned to begin collecting and he fourth quarter of 2016. Although KCPL has not al impact of these costs will be treated for ratemaking endation on this point in the true-up.

ations

ver Flood Incremental Non-Fuel Operations & FOM") Expense

to defer the incremental \$1.4 million Missouri 2011 Missouri flood into a regulatory asset with ng with the effective date of rates in Case No. December 31, 2015 includes a full 12 months of xpenses; therefore, no adjustment is necessary. ar of expenses in Staff Accounting Schedule 9 -

er Flood Insurance Reimbursement

March and August of 2013 related to the impact of nmission authorized KCPL to defer these proceeds years beginning with the effective date of rates in ents E-5.2 and E-202.1 in Schedule 10 - Income

1	22. <u>Transition Costs</u>
2	a. Aquila, Inc. Acqu
3	Pursuant to the Commission's Repo
4	began amortizing deferred Aquila, Inc. acqui
5	that case on May 4, 2011. These transition
6	Report and Order in Case No. EM-2007-0.
7	executive severance costs for employees terr
8	third-party and other non-labor expenses incu
9	KCPL filed Case No. ER-2016-028
10	January 1, 2015, the date which KCPL as
11	transition costs, pursuant to the Non-Unanimation
12	filed October 19, 2012 in Case No. ER-201
13	Acquisition Transition Costs, was resolved or
14	The five-year amortization of
15	annual amount of \$3.8 million
10	MPS \$3.5 million and L&P \$0
18	costs in any general electric r
19	Total Missouri jurisdictional
20	acquisition of Aquila are capped
21	of \$41.5 million. No other
22	acquisition of Aquila will be a
23	electric rate case.
24	Ordered Paragraph 1 of the Commission's
25	ER-2012-0174 incorporated into said Report
26	Stipulation and Agreement as to Certain Issue
27	Staff removed the test year amortized
28	KCPL's miscellaneous adjustments reference
29	witness Matthew R. Young. Staff has re
30	Schedule 10.
31	Staff Expert/Witness: Keith Majors

isition Amortized Transition Costs

ort and Order in Case No. ER-2010-0355, KCPL sition transition costs at the effective date of rates in costs were deferred pursuant to the Commission's 374. These deferred transition costs include nonminated, facilities integration costs, and incremental irred as a result of the acquisition.

85 on July 1, 2016. This date is subsequent to greed to not seek further recovery of amortized nous Stipulation and Agreement as to Certain Issues 2-0174. KCPL-GMO Common Issues - Issue II.7 a page 5 pursuant to the following terms:

acquisition transition costs (KCPL n, GMO amount of \$4.3 million -0.8 million) shall continue; however, ek recovery of acquisition transition rate case filed after January 1, 2015. transition costs related to the 2008 ed at the December 31, 2010 amount transition costs related to the 2008 deferred for recovery in any general

January 9, 2013 Report and Order in File No. and Order the October 19, 2012 Non-Unanimous es.

transition costs. These adjustments are included in ed as "CS-11", which is further described by Staff eflected these miscellaneous in Staff Accounting
1	23. Demand-Side Manageme
2	a. Opt Out Treatmen
3	It appears KCPL calculated Pre-MEE
4	ending in December 2015. Staff performed
5	2016; therefore Staff made an adjustment to c
6	amortizations as discussed below.
7	Staff Expert/Witness: Michael L. Stahlman
8	b. Rate-Making Trea
9	In its Report and Order in Case No. I
10	demand-side management ("DSM") costs sho
11 12 13 14 15 16	One area of agreement is (Vintages 1, 2, and 3) shou decisions to amortize those re year period and that amortizat Commission also agrees and continue to be amortized over a
17 18 19 20 21 22 23	KCP&L agrees with MDNR r investments. The Commission DSM program costs for inve- 2010, until a future recovery shall be placed in a regulatory a years with a carrying cost equa unamortized balance
24 25 26 27 28	With regard to the —current in with previous Commission amortization for the curren Commission determines that the continue to be amortized over a
29 30 31	The Commission determines the regulatory asset accounts shat determining rates in this case.
32	In adjustment E-181.1 in this case, Staff inclu
33	consistent with the Commission's order ab
34	Vintages 1-7 in its Rate Base Accounting Sch

ent Cost Recovery

ent

EIA customer opt-outs of DSM programs with data l a similar calculation using data through June 30, data used by Staff witness Matthew R. Young in his

atment for the DSM Program Cost

ER-2010-0355, with regard to how past and future

ould be treated, the Commission stated:

that the -old regulatory assets uld be governed by the previous egulatory asset accounts over a tenation period should not change. The directs that Vintages 1, 2, and 3 a ten-year period.

regarding the treatment for --future agrees as well and will direct that estments made from December 31, mechanism is in place [Vintage 5] asset account and amortized over six al to the AFUDC rate applied to the

nvestments, it would be inconsistent orders to authorize a six-year nt investments (Vintage 4). The these Vintage 4 investments should ten-year period.

hat the unamortized balances of the all be included in rate base for

uded the DSM vintages in the revenue requirement pove by including the unamortized balances for hedule 2 and by including the annual amortization

1	for each vintage based on a ten-year amortiz
2	Vintages 5-6 ⁹³ and a recommended six-year a
3	c. Accounting Treat
4	In reviewing the amortization schedul
5	be fully amortized on December 31, 2016, th
6	amortized within one year of the expected of
7	within two years. Once the vintages are fully
8	for expenses it is no longer incurring. Staff
9	complete, KCPL apply the funds that will
10	completed amortizations) to the unrecovered
11	next. This accounting treatment is appropria
12	identical in nature except for the timing in
13	approval of KCPL's regulatory plan on Ju
14	efficiency programs, demand response prog
15	programs included in the deferred DSM cos
16	therefore, Staff recommends that the funds co
17	for that particular vintage, but pooled to reimb
18	Since July 6, 2014, when KCPL's ME
19	No. EO-2014-0095, a majority of Pre-MEEI
20	Company's MEEIA recovery mechanism and
21	Staff recommends that KCPL no longer def
22	recovery after the true-up date in this case, and
23	Staff Expert/Witness: Matthew R. Young
24	24. Amortization of Regulator
25	Both regulatory assets and liabilities a
26	and included in rates to be returned to or receiv
27	(File No. ER-2014-0370), the signatories t

⁹³ Vintage 6 amortized over 6 years per ER-2014-0370.

zation for Vintages 1-4, a six-year amortization for amortization for Vintage 7.

ment for Expiring Vintages

les for each vintage, Staff noted that Vintage 1 will he true-up date in this case. Vintage 2 will be fully conclusion of the current rate case and Vintage 5 amortized, KCPL will be collecting funds in rates recommends that once amortization of a vintage is continue to be collected through rates (for the amounts of the DSM vintage scheduled to expire ate since all seven (7) existing vintages are nearly which the DSM costs were incurred. Since the uly 28, 2005, KCPL has been managing energy grams, and affordability programs. The type of sts has not substantially changed since 2005 and, ollected for each vintage should not be earmarked ourse KCPL for the deferred costs expeditiously.

EIA programs became effective as a result of Case IA DSM program costs have been shifted to the the remaining DSM costs have virtually ceased. fer DSM costs into a regulatory asset for future DSM vintage 7 be the final DSM vintage.

ry Assets and Liabilities

are authorized by the Commission to be deferred ived from ratepayers. In the 2014 KCPL Rate Case to the Partial Non-Unanimous Stipulation and

1	Agreement us to Certain Issues filed July 1, 2
2	assets and liabilities: ⁹⁴
3 4	I. PROSPECTIVE TR ASSET AND LIABILITY RI
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	In each future KCP&L general the balance of each amortizat liabilities that remains, after fit asset) or full credit to KCP& shall be applied as offsets to expire before KCP&L's new r In the event no other amortizat rates from that rate case unamortized balance shall be a is amortized over an appropria Demand Side Management an will be used to offset (re amortizations, each reducing o recovered and, in the event amortized, the Demand Side 1 applied to other amortizations t
22	The only regulatory asset and liability amorti
22	ended since the true-up cutoff in the 2014 R
24	The lease abatement amortization relates to the
25	Plains Energy, Inc., including KCPL, moved
26	Kansas City to its current location in downt
27	authorized in the 2010 Rate Case (File No. ER
28	beginning May 4, 2011.
29	There are amortizations that still have
30	cost of service ("COS"). In some cases, a "v
31	been fully collected. Pursuant to the stipulation
32	used to offset vintages of tracked costs that
33	discussed in more detail in other sections of Sta

⁹⁴ The Commission issued an Order Approving Stipulation and Agreement Regarding Certain Issues on July 17, 2015.

1 Agreement as to Certain Issues filed July 1, 2015, agreed to the following concerning regulatory

RACKING OF REGULATORY ECOVERY

rate case, the Signatories agree that tion relating to regulatory assets or full recovery by KCP&L (regulatory &L customers (regulatory liability), other amortizations which do not rates from that rate case take effect. ation expires before KCP&L's new take effect, then the remaining new regulatory liability or asset that ate period of time. For example, the mortizations, once fully recovered, reduce) other vintages of DSM other vintages as those become fully no other vintages remain to be Management amortizations will be that do not end before new rates take

ization subject to this prospective tracking that has ate Case is the amortization of a lease abatement. he rent abatement period that occurred when Great I its headquarters from one location in downtown town Kansas City. This regulatory liability was R-2010-0355) with amortization over five (5) years

e balances and are currently being collected in the vintage" as referenced in the above stipulation, has on referenced above, the over-collections have been are still being amortized. All of these items are taff's COS Report.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 2011 Missouri River Flood 1 Majors 2011 Missouri River Flood In Keith Majors Transource Missouri Account Demand Side Management Matthew R. Young Surface Transportation Boa Lyons LaCygne Obsolete Inventory- Cost of Removal Deferred Inc Wolf Creek Mid-Cycle Outag Wolf Creek Nuclear Refuelin Jason Taylor Renewable Energy Standards- Economic Relief Pilot Program Iatan 2 O&M Tracker- Staff E
18	Pursuant to the stipulation referenced al
19	associated with any amortization establish
20	to other amortizations which do not ourise
20	to other amortizations which do not expire
21	take effect.
22	Staff Expert/Witness: Keith Majors
23	25. <u>Allconnect Revenues and</u>
24	Pursuant to the Commission's Repo
25	included an adjustment to restore the rever
26	Transfer Service Agreement. The Commis
27	with the Allconnect relationship to be broug
28	service, on page 22 of the Report and Order
29	The Commission finds and co
30	associated with the Allconne
31	regulated revenue and expe
32 22	While the services Allconne Commission KCP&L and Cl
33	is regulated. Further, the cur
35	KCP&L and GMO are selling
36	that regulated relationship.
37	expenses above the line redu

Non-Fuel O&M - Staff Expert/Witness: Keith

nsurance Reimbursement–Staff Expert/Witness:

Review-Staff Expert/Witness: Keith Majors Advertising Costs- Staff Expert/Witness:

ard Litigation- Staff Expert/Witness: Karen

- Staff Expert/Witness: Cary G. Featherstone come Tax- Staff Expert/Witness: Keith Majors ge- Staff Expert/Witness: Michael Jason Taylor ing Outage 18- Staff Expert/Witness: Michael

- Staff Expert/Witness: Matthew R. Young m- Staff Expert/Witness: Matthew R. Young Expert/Witness: Michael Jason Taylor

bove, KCPL agreed to track any overcollections hed, including the list above, to be used as offsets before new rates from a subsequent KCPL rate case

d Expenses

ort and Order in File No. EC-2015-0309, Staff has enues and expenses related to the Allconnect Direct ission ordered all expenses and revenues associated ght "above the line" and included in regulated cost of \cdot in that case:

oncludes that the revenue and expense nect relationship should be treated as ense and brought "above the line." nect offers are not regulated by this GMO's relationship with its customers astomer information and contacts that g to Allconnect are developed through Finally, moving the revenue and aces the impression that KCP&L and

1 2	GMO are selling their custo unregulated profits.
3	There are no expenses or revenues relation
4	December 31, 2015 because the Allconnect e
5	in that time period. Therefore, Staff has in
6	Allconnect revenues and expenses "above th
7	are included in Staff's Accounting Schedule 1
8	Related to the revenues and expense
9	associated depreciation reserve used in Alle
10	service and depreciation reserve in Accountin
11	and Schedule 6 – Depreciation Reserve, adjus
12	Staff Expert/Witness: Keith Majors
13	26. <u>Common Use Plant Billin</u>
14	Common use plant is plant on the boo
15	Common use plant billings are the monthly bi
16	use of KCPL's plant. KCPL charges its aff
17	charge for common use plant is the impact of
18	An adjustment is necessary to annualize the a
19	negative, which is a reduction to the cost of se
20	Staff's adjustments are identified on Second
21	Adjustment E-204.2.
22	Staff Expert/Witness: Keith Majors
23	27. <u>Transource Adjustments</u>
24	KCPL has included in its direct revenu
25	Stipulation and Agreement reached by the part
26	Order in File No. EA-2013-0098 ("Transo
27	adjustments for the difference between Trans
28	KCPL's FERC revenue requirement and an ac
29	File No. ER-2012-0174 to KCPL customers.

omer's information to increase their

ated to Allconnect in KCPL's test year ending expenses and revenues were treated "below the line" included a full year of KCPL's allocated share of he line" through June 30, 2016. These adjustments 10, adjustments Rev-27.1 and E-198.8.

es, there is a small amount of plant in service and connect activities. Staff has included this plant in ng Schedule 3 – Plant In Service, adjustment P-5.1, stment R-5.1.

igs

oks of KCPL that can be used by affiliates of KCPL. illings to affiliated entities of KCPL for the entities' filiates for the use of these assets. Included in the any capital additions amount KCPL has expended. amount of common use billings. This adjustment is ervice.

Schedule 10 of Staff's KCPL Accounting Schedules,

ue requirement filing two adjustments related to the arties and included in the Commission's Report and ource Missouri Case"). The adjustments include source Missouri's FERC revenue requirement and djustment to return costs booked in the test year of

1	The first adjustment addresses Trans
2	On June 6, 2013, the Signatories in File
3	Approving Unanimous Stipulation and Agree
4	Stipulation. On July 19, 2013 the Signator
5	Proposed Consent Order Approving Un
6	Suggestions of the Signatories in Support
7	Unanimous Stipulation and Agreement. On
8	and Order in Case No. EA-2013-0098. In
9	sections 1 through 4, and in the initial pa
10	"Consent Order" (Second Joint Proposed O
11	Unanimous Stipulation and Agreement filed
12	stated that the disposition of (1) Transo
13	convenience and necessity and (2) KCPL a
14	transmission property was approved/granted
15	Appendix 4 the following from Paragraph 23
16	Stipulation and Agreement filed by the Signator
17	A. Rate Treatment – Affil
18 19 20 21 22 23 24 25 26 27 28 29 30 31	1. With respect to transm certificated territory that are of that are part of the latan-I Projects, KCP&L agrees that if the costs allocated to KCP& amount equal to the difference share of the annual revenue would have resulted if KCP structure had been applied an Work in Progress ("CWIP" Transmission Rate Incentive Abandoned Plant Recovery, re capitalizing pre-commercial of depreciation, applied to such f
32 33 34	share of the annual FERC-auth facilities. KCPL&L will make long as these transmission facil

source Missouri's FERC authorized rate incentives. No. EA-2013-0098, filed a Joint Proposed Order eement and a Joint Memorandum in Support of the ies filed a Second Joint Proposed Order and Joint animous Stipulation and Agreement and Joint of an Order by the Commission Approving the August 7, 2013, the Commission issued a Report the Report and Order, on page 17, in Ordered aragraph on page 27 of the attached Appendix 4 rder and Joint Proposed Consent Order Approving July 19, 2013, by the Signatories), the Commission ource Missouri's application for a certificate of ind GMO's application for the transfer of certain I. The Commission also set out at pages 27-28 in of the Joint Proposed Order Approving Unanimous ries June 6, 2013, in File No. EA-2013-0098:

iate Owned Transmission

nission facilities located in KCP&L constructed by Transource Missouri Nashua and Sibley-Nebraska City for ratemaking purposes in Missouri L by SPP will be adjusted by an ce between: (a) the SPP load ratio requirement for such facilities that &L's authorized ROE and capital nd there had been no Construction ') (if applicable) or other FERC es, including but not limited to ecovery on a current basis instead of perations expenses and accelerated facilities; and (b) the SPP load ratio orized revenue requirement for such e this adjustment in all rate cases so lities are in service.

to be recovered in retail rates in Missouri, pursuant

to Proposition 1, Section 393.135. In additi
on equity is 50 to 100 basis points higher t
including an additional 50 basis point inc
Organization ("RTO").
For purposes of this case, KCPL pe
between FERC and KCPL ratemaking for t
order to comply with the Commission's R
reviewed KCPL's proposed adjustment and
make it consistent with the Commission's Rep
Staff's only recommended change is t
in the assumed cost of debt do not result from
should not be included in the difference ca
recommendations in File No. ER-2016-0156 c
as follows:
 Depreciation rates – depreciation r
jurisdictions do not result from FE
should not be included in the d
difference in depreciation rates for
• State income tax rates – difference
from FERC Transmission Rate Inc
the difference calculation. KCPL
rates for this adjustment in this cas
 Allowance for Funds Used Duri
representing the capitalized financ
KCPL and GMO's actual AFUD
CWIP balance. KCPL has include
adjustment in this case.
Therefore, Staff's adjustment reflects only the
for the difference of costs allocated to KCPL
10 of Staff's KCPL Consolidated Accounting
The second adjustment reflects cost
Missouri but were retained on the regulated b
ER-2012-0174, 12 months ending Septem
established a regulatory liability in the amount

ion, Transource Missouri's FERC authorized return than KCPL's Missouri authorized return on equity centive for belonging to a Regional Transmission

erformed an analysis to determine the differences the projects at issue in File No. EA-2013-0098 in Report and Order language quoted above. Staff recommends it be revised in various respects to port and Order in File No. EA-2013-0098.

to the assumed cost of long term debt. Differences FERC Transmission Rate Incentives, and therefore alculation. KCPL has addressed some of Staff's concerning this adjustment. These differences were

rate differences between the Missouri and FERC ERC Transmission Rate Incentives, and therefore ifference calculation. KCPL has included no this adjustment in this case.

es in assumed state income tax rates do not result entives, and therefore should not be included in has included no difference in state income tax se.

ing Construction ("AFUDC") - this amount, cing cost for the projects, was adjusted to reflect OC rates over time, adjusted for the additional ed the actual AFUDC rates and amounts for this

differences related to FERC authorized incentives by SPP. This adjustment is included on Schedule Schedules, Adjustment E-129.2.

is that should have been charged to Transource books of KCPL for the test year period in File No. nber 2011. In File No. ER-2014-0370, KCPL t of \$136,880 to be amortized over three (3) years.

1	Staff's adjustment for the annual amortization
2	KCPL Consolidated Accounting Schedules,
3	Staff Expert/Witness: Keith Majors
4	VIII. Depreciation
5	A. Staff's Review of KCPL's Sul
6	Staff continues to review KCPL's d
7	Spanos of the consulting firm Gannett Flem
8	testimony, this is an update of the study perfo
9	KCPL requests the addition of a d
10	stations and the removal from the schedule
11	been retired. It appears to Staff that all other
12	include terminal net salvage in the calcul
13	turbine, and wind production accounts. Th
14	KCPL rate case, Case No. ER-2014-0370, in
15	depreciation rates for these accounts.
16	Staff also recommends adding depred
17	recommends rates for the Greenwood Solar
18	that were ordered by the Commission in GM
19	B. New Account - Electric Vehicl
20	KCPL requested, through Company
21	account 371.1 for Electric Vehicle Charging
22	of 10.0%, based on a 10-S2.5 survivor curve
23	are parameters commonly utilized by others t
24	Staff recommends the removal of
25	EV charging stations, from the cost of serv
26	stations and the Clean Charge Network spons
27	Murray. Given this, Staff is not recommendin

on of these costs is identified on Schedule 9 of Staff's Adjustments E-199.2 and E-206.2.

Ibmitted Depreciation Study Update

depreciation study, sponsored by its witness John J. ning. As described in Mr. Spanos' submitted direct formed for Case No. ER-2014-0370.

lepreciation rate for electric vehicle (EV) charging of accounts related to Montrose Unit 1, which has r updates to the study result from KCPL's request to lation of depreciation rates for steam, combustion he rates ordered on by the Commission in the last ncluded only interim net salvage in the calculation of

ciation rates for the Greenwood Solar Facility. Staff Facility plant included in this case to be the same O's rate case, Case No. ER-2016-0156.

le Charging Stations

witness Mr. Spanos' direct testimony, new plant Stations. Mr. Spanos requested a depreciation rate and 0% net salvage, stating that the above proposed that have installed similar EV charging stations.

plant costs and depreciation reserves, related to vice. Please see testimony related to EV charging sored by Staff witnesses Keith Majors and Byron M. ng depreciation rates for this new requested account.

1	Depreciation Staff continues to review
2	life of EV charging stations, along with po
3	Depreciation Staff has no reason to dispute K
4	C. Projected Production Unit Ret
5	The projected retirement dates for pro-
6	by KCPL were used by Staff during the last l
7	not changed for this rate case. Staff recog
8	production unit is in no way defined by or a
9	depreciation rate for this rate case.
10	D. Montrose Unit 1 Retirement
11	Montrose Generating Station Unit 1
12	April 16, 2016. KCPL direct testimonies and
13	been retired from the Company's books.
14	During a September 28, 2016 plant to
15	coal-fired generation, and was at the time e
16	environmental regulations, safety standards, a
17	Staff's recommended depreciation sel
18	and as such the unit does not have any assign
19	accounts.
20	E. Greenwood Solar Facility
21	As described in the testimony of Stat
22	solar facility, Staff recommends the allocation
23	KCPL. The commission ordered depreciation
24	case, Case No. ER-2016-0156. Staff recomm
25	the portion of the Greenwood plant allocated to
26	F. Staff's Recommended Deprecia
27	Staff recommends the Commission or
28	ordered in Case No. ER-2014-0370, changing

w information and data related to the average service otential changes due to industry trends. Currently, KCPL's requested depreciation rate.

tirement Dates

roduction plants relied on for depreciation purposes KCPL rate case, Case No. ER-2014-0370, and have ognizes that any actual future retirement date of a a function of an estimated date used to compute a

ceased coal-fired energy production on or before I plant and reserve balances assert that the unit has

tour, Staff observed that Unit 1 had indeed ceased experiencing demolition activities required to meet and/or mandated decommissioning schedules.

chedule reflects the retirement of Montrose Unit 1, ned depreciation rates for the applicable steam plant

off witness Karen Lyons related to the Greenwood on of a portion the plant in service for this facility to on rates for this facility in GMO's most recent rate nends the application of these depreciation rates for to KCPL.

tion Rates

rder KCPL to use the depreciation rates that were g them only to address the retirement of Montrose

1	Unit 1 and add rates for the Greenwood Solar
2	in Appendix 3, Schedule KBP-1 for all of KG
3	addition to Staff's recommended depreciation
4	for depreciation purposes, (2) the expected rel
5	salvage rate, (4) statistically-determined retin
6	composite depreciation rate. For the accounts
7	depreciation rates are shown.
8	G. Staff's Depreciation Summary
9	The table below shows the resultant
10	between KCPL's currently ordered deprecia
11	modifications discussed, and KCPL's reque
12	jurisdictional plant-in-service balances as of Ju
13	comparisons.
14	Annual Depreciation Expense Co
15	Currently Ordered / Staff Recommenda
16	\$118.9 million
17	The method of net salvage computation for s
18	plant is the main difference between the cases
19	explained as follows:
20	1. Currently ordered KCPL d
21	will incur only interim net sa
22	2. KCPL's proposal includes
23	combustion turbine, and w
24	portion of the account balance
25	In addition, deprecation expenses related to the
26	facility, which is not included in the estimated
27	estimates of depreciation expense includes those
28	requested the assignment of a depreciation rate

ar Facility as discussed above. These rates are shown KCPL's plant accounts. Schedule KBP-1 shows, in ion rates for each plant account: (1) retirement date remaining life as of December 31, 2013, (3) the net etirement rate survivor curve, and (5) the resultant nts related to the Greenwood Solar Facility, only the

nt estimated annual depreciation accruals (expense) eciation rates, which Staff recommends with the juested depreciation rates. Staff used Missouri June 30, 2016, to derive these depreciation expense

Comparison (Estimated), June 30, 2016

KCPL Requested dation \$129.5 million

r steam, combustion turbine, and wind production ses shown. The difference in the net salvage can be

depreciation rates, which Staff recommends, t salvage for the complete account balance;

es interim and terminal net salvage for steam, wind production plant without limiting the ance accruing interim net salvage.

the Staff recommendation include Greenwood solar ted KCPL requested depreciation expense. Neither nose related to EV charging stations, though KCPL te for these facilities.

1	Staff's recommended depreciation rate
2	Staff Expert/Witness: Keenan B. Patterson
3	IX. Current and Deferred Inco
4	A. Current Income Tax
5	Current income tax for this case has
6	the methodology used in KCPL's last rate
7	difference occurs when the timing used in re
8	purposes is different from the timing requi
9	determining taxable income.
10	Current income tax reflects timing dif
11	tax regulations. The tax timing differences u
12	current income tax for KCPL are as follows:
13	Add Back to Operating Income
14	Book Depreciation Expense
15	50% Meals and Entertainment D
16	Book Nuclear Fuel Amortization
17	Book Amortization Expense
18	Subtractions from Operating In
19	Interest Expense - Weighted Cos
20	IRS Accelerated Tax Depreciation
21	IRS Nuclear Fuel Amortization
22	IRS Tax Return Plant Amortizat
23	Employee 401k ESOP Deduction
24	Subtractions - Federal Income T
25	Wind Production Tax Credit
26	Research and Development Tax
27	Fuels Tax Credit
28	Staff Expert/Witness: Keith Majors

ates are shown in Appendix 3, Schedule KBP-d1.

ome Tax

been calculated by Staff, generally consistent with case, Case No. ER-2014-0370. A tax timing eflecting a cost (or revenue) for financial reporting ired by the Internal Revenue Service ("IRS") in

fferences consistent with the timing required by the used in calculating taxable income for computing

Before Taxes:

Disallowance

icome:

ost of Debt multiplied by Net Rate Base

.

.

on

ion

m

Tax Credit:

Credit

1	B. Kansas City Earnings Tax
2	Additionally, Staff normalized the Ka
3	Staff included no amount for earnings taxes,
4	result of the extension of bonus deprecation
5	booked in the test year has been removed in
6	in adjustment E-262.1.
7	Staff Expert/Witness: Keith Majors
8	C. Deferred Income Tax Expense
9	When a tax timing difference is refle
10	timing used in determining taxable income for
11	Revenue Code ("IRC"), the timing difference
12	year timing difference is deferred and recogn
13	timing used in calculating pre-tax operating in
14	difference is given "normalization" treatment
15	expense for a regulated utility reflects the tax
16	ratemaking purposes. IRS rules for regulated
17	timing differences related to accelerated tax de
18	the portion of calculated income taxes that a
19	utility additions and subtractions to net income
20	be paid at some point in the future, and in the i
21	Staff Expert/Witness: Keith Majors
22	D A commutated Deferred Income
22	D. Accumulated Deferred Income
23	KCPL's deferred income tax reserve re
24	by KCPL's customers and a cost-free source
25	depreciation expense on an accelerated basis for
26	for income taxes is significantly higher than
27	(book purposes) and for ratemaking purposes
28	timing difference, and creates a deferral, or fu
29	net credit balance in the deferred tax reserve

.

ansas City, Missouri earnings tax in this rate case. as KCPL is projected to pay no earnings taxes as a and its impact on taxable income. The amount Staff Accounting Schedule 10 - Income Statement

ected for ratemaking purposes consistent with the for current income tax as the result of the Internal is given "flow-through" treatment. When a current nized for ratemaking purposes consistent with the ncome in the financial statements, then that timing t for ratemaking purposes. Deferred income tax impact of normalizing tax timing differences for ed utilities require normalization treatment for the lepreciation. Deferred income tax expense reflects are not "current" as determined by the regulated he and income tax credits. These income taxes will interim represent a cost-free source of capital.

Taxes ("ADIT") - Plant Related

represents, in effect, a prepayment of income taxes of capital. Because KCPL is allowed to deduct or income tax purposes, depreciation expense used depreciation expense used for financial reporting . This results in what is referred to as book-tax ture liability of income taxes, to the future. The represents a source of cost-free funds to KCPL.

Therefore, KCPL's rate base is reduced by the deferred tax reserve balance to avoid having 1 2 customers pay a return on funds that are provided cost-free to the company. Generally, deferred 3 income taxes associated with all book-tax timing differences which are created through the ratemaking process should be reflected in rate base. In addition to accelerated depreciation, Staff -4 has also included deferred taxes specifically associated with the rate base inclusion of the -5 pension liability. 6 7 The rate base impact of ADIT is included in Schedule 2 - Rate Base in Staff's Accounting Schedules. 8

9 Prior to the 1986 Tax Reform Act, flow-through treatment (current year deduction) was 10 used for Missouri utilities unless the utility could demonstrate the need for additional cash flow 11 to meet interest coverage ratios. It is Staff's understanding that KCPL received normalization 12 treatment in rate cases prior to 1986 based upon a need for additional cash flow during 13 significant construction activity related to new generation facilities.

14 Timing differences which were reflected as a tax deduction in the current year, for 15 current income tax to the IRS, were deferred (normalized) for ratemaking purposes. The tax 16 deduction is reflected in rates by amortizing the deferred tax balance over the depreciable life of the property. Staff's income tax calculation for KCPL, in this current case, reflects the 17 amortization of prior timing differences which were normalized in prior rate cases. Account 18 Schedule 11 reflects an annual amortization of deferred taxes resulting from normalization 19 treatment in prior cases. 20

21 The 1986 Tax Reform Act reduced the federal tax rate for corporations from 46% to 34%. As a result all deferred taxes, previously reflected in rates, based upon an assumed 46% tax 22 rate, were overstated. The IRS allowed a regulated utility to flow back (amortize) to ratepayers 23 the excess deferred taxes over the approximate depreciable book life of the property. Staff's 24 25 income tax calculation for KCPL in this case reflects an amortization of excess deferred taxes resulting from the reduction in the federal tax rate in 1986. This adjustment reflects an annual 26 amortization of the excess deferred taxes resulting from the reduction in the federal tax rate and 27 28 is located in Accounting Schedule 11.

29 Prior to the 1986 Tax Reform Act, a utility received a permanent tax credit for investing in new capital additions. For ratemaking purposes, the IRS allowed the utility to amortize 30 (flow back to ratepayers) the investment tax credit over the approximate depreciable book life of 31

1	the related property. This adjustment reflect
2	tax credit and is located in Accounting Scheo
3	Staff Expert/Witness: Keith Majors
4	E. ADIT on Construction Work
5	KCPL records ADIT that is associate
6	This ADIT represents a free source of capit
7	construction project is completed and includ
8	rate base on which KCPL earns a return in
9	included in rate base, KCPL is allowed
10	Construction ("AFUDC") deferred return bef
11	base. AFUDC is accrued during the construct
12	plant is placed into service. The amount of
13	over the life of the plant. For the calculation
14	reduction to the base on which it is calculated
15	with no consideration of ADIT.
16	Utilities have argued that it is inappro
17	CWIP balances, when the CWIP amounts
18	Commission has found to the contrary recent
19	CWIP was an issue decided by the Commis
20	Case No. ER-2012-0166. On page 30 of it
21	stated why this treatment is appropriate:
22	In other words, failure to r
23 24	balance in the company's rate AFUDC costs and future r
25	company to earn AFUDC ar
26	ratepayers
27	As fully explained in the find
28	include CWIP-related ADIT b
29	avoid overstating AFUDC and
90	toth current and future fatepay

ets an annual amortization of the deferred investment

In Progress ("CWIP")

ed with the CWIP reflected on its books and records. ital funds available for use by the utility before the ded in plant-in-service. CWIP is excluded from the in the ratemaking process. Although CWIP is not to earn an Allowance for Funds Used During fore the property under construction is added to rate action of the asset and included in rate base when the f AFUDC is included in depreciation and rate base of AFUDC, there is no consideration for ADIT as a ed; the AFUDC is calculated on the "gross" amount,

opriate to reduce rate base for ADIT associated with s are not included in rate base. However, the stly. Reducing rate base by the amount of ADIT on ssion in a past Ameren Missouri general rate case, ts *Report and Order* in that case, the Commission

recognize the CWIP-related ADIT te base will overstate the companies rate base, essentially allowing the nd a return on capital supplied by

ndings of fact, Ameren Missouri must balances as an offset to rate base to d future rate base, to the detriment of yers.

1	The Commission recently decided this issue
2	Order in that case:
3	KCPL asserts that its situation
4	issue in File No. ER-2012-010
5	loss and, as a consequence, K
6	revenues during the applicab
7	receive a cash tax benefit.
8	fully-normalized income taxe
9	whether KCPL pays those tax
10	KCPL is not realizing all the
11	due to a net operating loss po
12	that ratepayers are providing s
13	taxes. The Commission conclu-
14	to CWIP should be an addition
15	Therefore, Staff recommends the amount of
16	additional reduction to KCPL's rate base, sim
17	The amount of ADIT on CWIP is list
18	Base, in Staff's Accounting Schedules.
19	Staff Expert/Witness: Keith Majors
20	X. Jurisdictional Allocations
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, ur
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, ur
25	Missouri and retail sales in Kansas are describ
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, ur
25	Missouri and retail sales in Kansas are describ
26	costs to serve a particular jurisdiction may b
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, ur
25	Missouri and retail sales in Kansas are describ
26	costs to serve a particular jurisdiction may b
27	some other costs may not. Costs that are no
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, ur
25	Missouri and retail sales in Kansas are describ
26	costs to serve a particular jurisdiction may b
27	some other costs may not. Costs that are no
28	allocated among the various applicable jurisd
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, un
25	Missouri and retail sales in Kansas are describ
26	costs to serve a particular jurisdiction may b
27	some other costs may not. Costs that are no
28	allocated among the various applicable jurisd
29	i.e., "variable costs"- are denoted as "energy
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, ur
25	Missouri and retail sales in Kansas are descrift
26	costs to serve a particular jurisdiction may be
27	some other costs may not. Costs that are no
28	allocated among the various applicable jurisd
29	i.e., "variable costs"- are denoted as "energy
30	consumption, i.e., "fixed-costs" are denoted
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, un
25	Missouri and retail sales in Kansas are describ
26	costs to serve a particular jurisdiction may b
27	some other costs may not. Costs that are no
28	allocated among the various applicable jurisd
29	i.e., "variable costs"- are denoted as "energ
30	consumption, i.e., "fixed-costs" are denoted
31	are developed and utilized for each.
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, un
25	Missouri and retail sales in Kansas are describ
26	costs to serve a particular jurisdiction may b
27	some other costs may not. Costs that are no
28	allocated among the various applicable jurisd
29	i.e., "variable costs"- are denoted as "energ
30	consumption, i.e., "fixed-costs" are denoted
31	are developed and utilized for each.
32	Jurisdictional allocation refers to the p
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, un
25	Missouri and retail sales in Kansas are descrift
26	costs to serve a particular jurisdiction may be
27	some other costs may not. Costs that are no
28	allocated among the various applicable jurisd
29	i.e., "variable costs"- are denoted as "energy
30	consumption, i.e., "fixed-costs" are denoted
31	are developed and utilized for each.
32	Jurisdictional allocation refers to the p
33	costs are allocated to the applicable jurisd
20	X. Jurisdictional Allocations
21	The Commission sets cost-of-service
22	however, not all of the costs a utility incur
23	service to its Missouri retail customers. KCI
24	Missouri and Kansas. Wholesale sales, un
25	Missouri and retail sales in Kansas are descrift
26	costs to serve a particular jurisdiction may be
27	some other costs may not. Costs that are no
28	allocated among the various applicable jurisd
29	i.e., "variable costs"- are denoted as "energy
30	consumption, i.e., "fixed-costs" are denoted
31	are developed and utilized for each.
32	Jurisdictional allocation refers to the p
33	costs are allocated to the applicable jurisd
34	associated with generation and transmission p

in the 2014 Rate Case on page 79 of its Report and

n is different than that of the utility at 66 because KCPL has a net operating CPL has more deductions than it has ble period, so it has not and will not However, KCPL ratepayers provide es in cost of service regardless of xes concurrently to the IRS. Even if benefits of accelerated depreciation osition, it does not invalidate the fact several million dollars in cash income udes that the amount of ADIT related nal reduction to KCPL's rate base.

ADIT on CWIP as of June 30, 2016, be used as an nilar to other amounts of ADIT.

ted as a reduction to rate base on Schedule 2 – Rate

based rates for a utility's Missouri retail customers; rs are necessarily associated with its provision of PL has both retail and wholesale customers in both nder the jurisdiction of the FERC, retail sales in bed as sales in three separate "jurisdictions." Some be directly assignable to that jurisdiction; however, ot directly assignable to a particular jurisdiction are dictions. Costs that vary with energy consumption, gy-related". Costs that do not vary with energy as "demand-related." Different allocation factors

process by which demand-related and energy-related lictions. Fixed costs, such as the capital costs plant, are typically allocated on the basis of demand.

1	Variable costs, such as fuel and purchased p
2	of energy consumption. In this case, Stat
3	energy to allocate KCPL's demand-related
4	between three applicable jurisdictions: Miss
5	the wholesale jurisdiction. The particular j
6	upon the type of cost that is being allocated.
7	Staff Expert/Witness: Alan J. Bax
	-
8	A. Methodology
9	1. Demand Allocatio
10	Demand refers to the rate at which
11	the requirements of its customers, generally
12	either at an instant in time or averaged over a
13	largest electric requirement that occurs within
14	season and year) on a utility's system. Since
15	designed, and constructed to meet a utility'
16	reserves, the contribution of each of KCPL's
17	and Wholesale Operations, coincident to t
18	demand at the time of the system peak, is the
19	these facilities. Thus, the term coincident p
20	MWs, in each of the jurisdictions that coinc
21	the time period in the corresponding analysis.
22	Staff is utilizing a Four Coincident I
23	seasonal coincident peaks of the four sum
24	demand allocation factors for KCPL. The
25	KCPL, that experiences dominant seasonal d
26	September) relative to the demands in the other
27	a needle peak in a particular month may cor
28	utility that experiences similar hourly peaks
29	the 12 CP method. The monthly demands re

power, are more appropriately allocated on the basis aff calculated jurisdictional factors for demand and ed (fixed) costs and energy-related (variable) costs ssouri retail jurisdiction, Kansas retail jurisdiction and jurisdictional allocation factor applied is dependent

on Factor

electric energy is delivered to a system to match expressed in kilowatts (kWs) or megawatts (MWs), a specified time interval. System peak demand is the in a specified period of time, (e.g. hour, day, month, generation units and transmission lines are planned, 's anticipated system peak demands, plus required is three jurisdictions: Missouri Retail, Kansas Retail, the system peak demand, *i.e.*, each jurisdiction's e appropriate basis on which to allocate the costs of peak (CP) refers to the load, generally in kWs or ide with KCPL's overall system peak recorded for

Peak (4 CP) methodology – based on the monthly inner months in calendar year 2015, to determine 4 CP method is appropriate for a utility, such as demands in the four summer months (June through her eight months of a year. A utility that experiences onsider utilizing a 1 CP method. Comparatively, a in both winter and summer months might employ eported for the calendar months included in the test

1	year and update period for the current case
2	reporting periods associated with the last few
3	Staff determined the demand allocati
4	process:
5	a. Identify KCPL's peak
6 7	period June 2015 thro loads.
8 9	b. Sum the particular ju identified in a. above.
10	c. Divide b. by a. above.
11	The result is the allocation factor for each juri
12	Missouri Retail Jurisdiction:
13	Kansas Retail Jurisdiction:
14	Wholesale Jurisdiction:
15	Total:
16	2. Energy Allocation
17	Variable expenses, such as fuel and
18	based on energy consumption. The energy al
19	ratio of the normalized annual kilowatt-hour
20	utility's total system normalized kWh. In this
21	jurisdiction (Missouri Retail, Kansas Retail
22	normalized annual kilowatt-hour (kWh) usage
23	period of calendar year 2015, the ordered
24	normalized kWh. Staff applied adjustments
25	growth and certain annualizations. Staff w
26	adjustment. Staff witnesses Matthew R.
27	adjustments for customer growth and certain a
28	Staff has calculated the following en
29	jurisdictions based on kWh usage data in calen

e are consistent with the monthly demands in the rate cases involving KCPL.

tion factor for each jurisdiction using the following

hourly load in each month for the four – month bugh September 2015 and sum these hourly peak

urisdiction's corresponding loads for the hours

sdiction:

0.5274 0.4708 0.0018 1.0000

Factor

purchase power, are allocated to the jurisdictions illocation factor for an individual jurisdiction is the r (kWh) usage in the particular jurisdiction to the s case, the energy allocation factor for an individual I or Wholesale Jurisdictions) is the ratio of the e in the particular jurisdiction, during the 12-month test year in this case, to KCPL's total system s to these kWhs to account for losses, anticipated witness Seoung Joun Won, provided the weather Young and Michael J. Stahlman provided the annualizations respectively.

energy allocation factors for the aforementioned ndar year 2015.

1	Missouri Retail Jurisdiction:
2	Kansas Retail Jurisdiction:
3	Wholesale Jurisdiction:
4	Total:
5	These jurisdictional demand and ene
6	Cary G. Featherstone to allocate related cost
7	Staff Expert/Witness: Alan J. Bax
8	B. Application
9	As stated above, KCPL operates with
10	in the wholesale jurisdiction regulated by th
11	allocate and/or assign, KCPL's specific inv
12	(Missouri Retail, Kansas Retail, and Wholes
13	must develop KCPL's cost of service for it
14	plant investments and costs in its income sta
15	to the Missouri retail jurisdiction.
16	To develop KCPL's cost of servic
17	with KCPL's records kept in accordance wi
18	rule. Where these records reflected costs or
19	Missouri retail jurisdiction, Staff directly
20	Missouri jurisdictional cost of service. How
21	costs or investments, Staff allocated those of
22	energy allocation factor, depending upon v
23	demand or energy.
24	KCPL uses its generation and the
25	electricity to its Missouri retail customers,
26	(FERC jurisdiction). Because these facilitie
27	and investments in these facilities, as well as
28	state and one federal jurisdiction using the
29	month peaking utility, Staff used the 4 coinci

0.5607 0.4377 0.0017 1.0000

ergy allocation factors were provided to Staff witness

thin two state jurisdictions, Missouri and Kansas, and he FERC. Therefore, it is necessary to identify, then westments and costs among these three jurisdictions sale). To identify KCPL's revenue requirement, Staff its Missouri retail jurisdiction. To do that, KCPL's tatement must be appropriately assigned or allocated

ce for its Missouri retail jurisdiction, Staff began vith FERC accounting requirements per Commission r investments that KCPL incurred solely to serve the assigned those costs or investments to KCPL's wever, when it was not appropriate to directly assign costs using either a demand allocation factor or an whether the investment or cost is more related to

transmission facilities to produce and transport Kansas retail customers, and wholesale customers es are demand-related, Staff allocated KCPL's costs the related depreciation reserve accounts, to the two demand allocator. Since KCPL is a four summer ident peak ("4 CP") method to develop the Missouri

retail jurisdiction, Kansas retail jurisdiction, and wholesale jurisdiction demand allocators. Staff 2 has consistently used the 4 CP method to develop the KCPL demand allocators since KCPL's 3 1985 Wolf Creek rate case, including each of the four KCPL Regulatory Plan rate cases filed with the Commission and the 2012 and 2014 rate cases.⁹⁵ 4 5 The Commission has approved the use of the 4 CP method to allocate joint investment costs and expenses since the 1985 Wolf Creek rate case. The Commission decided the use of the 6 4 CP method was proper again in 2006 KCPL rate case.⁹⁶ 7 8 **Distribution Plant Investment** 9 In its records kept in accordance with FERC accounting requirements, KCPL separately 10 accounts for its investment in distribution plant located in Kansas and Missouri. Plant identified in this way is referred to as site specific or situs plant. Staff used KCPL's actual distribution 11 12 plant investment in both Missouri and Kansas at June 30, 2016, to develop site specific 13 allocation factors to allocate the total company distribution plant and reserve amounts to quantify only the distribution plant and reserve amounts specific to KCPL's Missouri retail jurisdiction. 14 This is consistent with how KCPL treated distribution plant in its case. 15 **General Plant Allocation** 16 17 Staff created the Missouri retail jurisdictional allocation factor for general plant 18 investment, and related costs, based on a composite of its demand allocation factor and site 19 specific allocation factor. Staff applied the demand allocation factor used to quantify the Missouri retail jurisdictional share of KCPL's production and transmission costs and the site 20 specific allocation factor used to allocate an appropriate part of KCPL's total company 21 distribution plant and reserve amounts to KCPL's Missouri retail jurisdiction. Staff used the 22 23 resulting production plant and depreciation reserve amounts and distribution plant costs allocated to KCPL's Missouri retail jurisdiction to form the basis for allocating KCPL's general plant to its 24 Missouri retail jurisdiction. Thus, Staff's Missouri retail jurisdiction allocation factor for 25 26 KCPL's general plant is based on a composite of the Missouri retail jurisdiction allocation 27 factors Staff developed for KCPL's production, transmission and distribution plant costs. Staff

⁹⁵ The four rate cases filed under the Experimental Regulatory Plan authorized by the Commission in Case No. EO-2005-0329 are Case Nos. ER-2006-0314, ER-2007-0291, ER-2009-0089, and ER-2010-0355 and the last KCPL two rate cases, ER-2012-0174 and ER-2014-0370.

⁹⁶ In the Matter of the Application of Kansas City Power & Light Company for Approval to Make Certain Changes in its Charges for Electric Service to Begin the Implementation of its Regulatory Plan, Case No. ER-2006-0314, (Report and Order, filed December 21, 2006) page 74.

used this composite general plant allocation factor to allocate to KCPL's Missouri retail 2 jurisdiction what are described in KCPL's income statement (Staff Accounting Schedule 9) as "general" costs. 3 Allocations of Expenses 5 Using the principle that expenses (costs) should follow plant investment, Staff used the same jurisdictional allocation factors it developed to allocate investment to allocate expenses 6 related to that investment. The FERC expense accounts found in KCPL's income statement 8 (reproduced as Schedule 9 in Staff's Accounting Schedules) include amounts for costs broadly described as production, transmission, distribution, general, and administrative and general 9 10 ("A&G"). Using the expense accounts found in KCPL's income statement, this principle that expenses should follow plant investment is appropriate because KPCL incurs production 12 (generation) plant expenses to maintain and operate its the generation facilities, making it proper 13 to use the same jurisdictional allocator to allocate production plant expenses that is used to allocate its investment costs in generating facilities. Similarly, KCPL incurs transmission expenses to maintain and operate its transmission facilities, making it appropriate to use the same 15 16 jurisdictional allocator to allocate transmission expenses that is used to allocate KCPL's investment costs in transmission facilities. Staff allocated KPCL's production and transmission costs taken from KCPL's income 18 19 statement to KCPL's Missouri retail jurisdiction with the same demand allocator Staff developed and used to allocate KCPL's investment in generating and transmission facilities to KCPL's Missouri retail jurisdiction. **Other Costs Allocations** 23 Staff also used a variety of jurisdictional allocation factors to allocate the appropriate part of KCPL's administrative and general costs found in KCPL's income statement (Staff Accounting Schedule 9), to KCPL's Missouri retail jurisdiction. Staff relied on KCPL for these allocation factors. Some of these allocation factors are based on the number of KCPL customers in each jurisdiction. Some are based on the number of KCPL employees working in each jurisdiction. Each specific account had a specific allocation factor that Staff used to allocate the appropriate cost to KCPL's Missouri retail jurisdiction.

4

7

11

14

17

20 21

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25 26

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28 29

Energy and Demand Allocations

2 Staff used the energy allocation factor to allocate costs to the Missouri retail jurisdiction 3 that are considered to vary directly with electricity usage. For example, in response to increased demand for electricity in a particular hour, KCPL must either buy or generate more electricity, 4 5 causing one or more of its fuel and purchased power costs to increase. In contrast, costs such as fixed capacity or demand charges on a purchased power contract are constant, regardless of the 6 7 demand for electricity in a given non-peak hour and, therefore, are allocated using the demand 8 allocator.

9 The demand portion of capacity agreements are assigned or allocated to the jurisdictions 10 using the demand allocator. However, energy sold or purchased using that capacity is a variable 11 cost and is allocated to the jurisdictions with energy allocation factors. The rationale for the demand portion of a capacity purchase or sale agreement is to recover the costs of the facilities 12 that underlie these transactions. For example, if KCPL sells capacity, KCPL makes a 13 commitment to have generating capacity in place that is dedicated to meeting the load 14 requirements of the customer to whom it is selling the capacity. The demand portion of a 15 capacity sale can be thought of as the recovery of the costs of generating assets used to provide 16 electricity to the buyer of power. Similar to when it sells capacity, when KCPL purchases 17 18 capacity to assure it can meet its system load requirements with energy, it will pay a demand charge (payment) to the seller. 19

20 On March 2014, SPP implemented an integrated market to dispatch generation to meet 21 the system load requirements for all its members. However, for purposes of presenting this rate 22 case, Staff has developed KCPL's revenue requirement on the assumption that the Missouriallocated portions of all of KCPL's generation facilities are primarily used to produce electricity 23 for KCPL's retail customers. Accordingly, Staff's assumption is that KCPL meets its native load 24 25 with the same generating plant and transmission plant that it uses to generate and transport 26 electricity to make off-system sales-sales to firm and non-firm customers in the bulk power 27 markets (off-system sales). Staff uses the energy allocation factor to allocate energy (variable) 28 costs of fuel and purchased power that are assumed to be incurred to meet system load requirements of KCPL's native load customers. Staff also used the same energy factor used to 29 allocate the variable costs incurred to meet retail load requirements for Missouri retail customers 30 to allocate KCPL's revenues and energy costs that are assumed to be incurred to make 31

1	off-system sales to its Missouri retail jurisdic
2	made up of short-term sales, Staff assumes
3	capacity for these sales. Traditionally, non-
4	energy allocation factors since the costs of r
5	being the cost of the fuel used to generate the
6	fuel is consumed or power purchased and, t
7	power cost. These costs vary directly with
8	using the energy allocation factors is proper.
9	off-system sales to KCPL's Missouri retail j
10	during its Regulatory Plan and in the 2012 a
11	consistently used energy allocation factors to
12	retail jurisdiction of The Empire District Ele
13	was GMO's MPS rate district for many
14	Pre-consolidation, GMO's L&P rate district v
15	jurisdictional allocations.
16	Staff Expert/Witness: Cary G. Featherstone
17	XI. Fuel Adjustment Clause ("
18	A. FAC - Policy
19	In summary, Staff makes the follo
20	Adjustment Clause ("FAC") to the Commissic
21	1. Continue KCPL's FAC with m
22	2. Include a new Base Factor and
23	costs in the FAC tariff sheets
24	that the Commission includes
25	KCPL's general rates in this ca
26	3. Order KCPL to suspend all of
]	•
27	hedging);

⁹⁷ Net Base Energy Cost is defined in KCP&L's Original Sheet No. 50.7 as "Net base energy costs ordered by the Commission in the last general rate case consistent with the costs and revenues included in the calculation of the FPA".

ction. Since the non-firm, off-system sales market is that KCPL does not reserve dedicated generating firm off-system sales have been allocated using the making these sales are variable in nature, primarily electricity sold. As more megawatts are sold, more therefore, the higher the fuel cost or the purchased the megawatt hours sold or purchased and, thus, Staff has used energy allocation factors to allocate jurisdiction in each of KCPL's last four rate cases and 2014 KCPL rate cases. Historically, Staff has allocate off-system sales revenues to the Missouri ectric Company and for setting retail rates in what rate cases, dating back to at least the 1990s. was a Missouri jurisdictional only utility, so has no

'FAC")

owing recommendations regarding KCPL's Fuel on:

nodifications;

a new percentage of SPP transmission service

calculated from the Net Base Energy Cost⁹⁷

in the revenue requirement upon which it sets ase;

f its hedging activities (cross hedging and fuel

1	4. Clarify that the only SPP tran
2	FAC are those that KCPL in
3	generate to its own load (true p
4	electric power it is selling to th
5	system sales ("OSS");
6	5. Order KCPL to continue to pro
7	monthly reports ⁹⁸ as the Comn
8	Rate Case No. ER-2014-0370,
9	in its monthly reports.
10	Staff Expert/Witness: David C. Roos
11	1. <u>History</u>
12	The Commission first authorized a FA
13	2015 general electric rate proceeding (Case N
14	sheets becoming effective September 29, 20
15	general rate case after Commission authoriz
16	continuance of the FAC in this rate case. The
17	sheets numbered 50 through 50.10) include:
18	• Two 6-month accumulation per
19	December;
20	Two 12-month recovery perio
21	through March;
22	 Two FAR filings annually, not la
23	 A 95%/5% sharing mechanism;
24	• FARs for individual service
25	\$0.00001, and charged on each a
26	• True-up of any over- or under-re
27	period with true-up amounts be
28	subsequent recovery period; and

transmission costs that are included in KCPL's incurs to transmit electric power it did not e purchased power) and costs to transmit excess third parties in locations outside of SPP as off-

provide the additional information as part of its ommission ordered KCPL to do in the previous 70, along with the information already required

FAC for KCPL in its Report and Order in KCPL's No. ER-2014-0370), with the original FAC tariff 2015. This general rate case is the first KCPL orization of KCPL's FAC. KCPL is requesting The primary features of KCPL's present FAC (tariff

periods: January through June and July through

eriods: October through September and April

ot later than February 1 and August 1;

ce classifications are rounded to the nearest ch applicable kWh billed;

er-recovery of revenues following each recovery being included in determination of FARs for a ınd,

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⁹⁸ Monthly reports are required by 4 CSR 240-3.161(5).

1	Prudence reviews of the costs		
2	frequently than every eighteen m		
3	The Base Factor (base energy cost per l		
4	case (Case No. ER-2014-0370) to be \$0.0118		
5	increase the FAC Base Factor to \$0.01987 per k		
6	Staff Expert/Witness: David C. Roos		
7	2. <u>Continuation of FA</u>		
8	Staff recommends that the Commission		
9	KCPL's FAC. Staff also recommends that th		
10	provide its estimate of the Base Factor for the		
11	Base Factor when Staff files its Class Cost o		
12	2016. Staff will use the Net Base Energy Cost		
13	develop the Base Factor.		
14	KCPL has filed for and received approv		
15	accumulation periods ("AP") (AP1 and AP2).		
16	periods.		
17			
	Chart 1: KCPL I		
	\$0.00350		
	\$0.00300		
	\$0.00250		
	\$ \$0.00200		
	\$ \$0.00150 \$ \$0.00100		
	\$0.00050 - 50.00		
	S-		
	AP1 AP2		
	a i		

18

ts subject to the FAC shall occur no less months.

kWh rate) was originally set in KCPL's 2015 rate 86 per kWh. In this case, KCPL is proposing to kWh.

<u>C</u>

In approve, with modifications, the continuation of the Commission reset the Base Factor. Staff will the FAC and a discussion on the calculation of the of Service/Rate Design Report on December 14, st and the kWh at the generator from its fuel run to

oval of changes to its FARs for two (2) completed . Chart 1 shows the FARs for these accumulation





⁹⁹ September 29, 2015 is the effective date of rates for Rate Case No. ER-2014-0370.

AP2: Jan 2016- Jun 2016

ected Amount		
AP3	AP4	AP5
	minde	

Company's generating units, including the costs associated with the Company's fuel hedging program; purchased power energy charges, including applicable transmission fees; Southwest Power Pool variable costs; air quality control system consumables; and net emission allowance costs. Actual FAC costs are off-set by actual revenue from Off-System Sales and actual Renewable Energy Credit Revenues to produce the FAC Actual Net Energy Cost (ANEC). In the two accumulation periods (AP1 and AP2), KCPL under-collected its Actual Net Energy Costs, and 95% of the under-collected amounts were recovered from KCPL's customers during

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For the AP1 and AP2, Chart 3 illustrates the percentage of cumulative under-collected amount which is equal to 100*(ANEC-B)/ANEC where "B" is the Net Base Energy Cost for KCPL.¹⁰⁰ Chart 3: KCP&L FAC Cumulative **Under-Collected Percentage** Percentage of Cumulative Total Energy Costs 30.0% 25.0% \$20.0% 15.0% 3 **ਹੋ** 10.0% 5.0% 0.0% AP2 AP3 AP4 AP1 AP5 **Accumulation Periods** Chart 1 illustrates the variability of the FARs as a result of variations in each accumulation period's billed Net Base Energy Cost and Actual Net Energy Cost. From Charts 2 and 3, Staff observes that the FAC cumulative under-collected amount over 12 months is approximately \$45.7 million or about 26% percent of total Actual Net Energy Cost, which totaled \$178 million during AP1 and AP2. Staff recommends continuation of KCPL's FAC with modifications. As shown in the previous charts and discussion, KCPL's Actual Net Energy Costs continue to be relatively large,¹⁰¹ volatile, and beyond the control of the Company. Staff Expert/Witness: David C. Roos

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¹⁰⁰ B is defined as Net Base Energy Cost is defined in KCPL's Original Sheet No. 50.7 as "Net base energy costs

¹⁰¹ KCPL's proposed Base Energy Cost for this case represents 37% of KCPL's total cost to be recovered in rates.

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ordered by the Commission in the last general rate case consistent with the costs and revenues included in the calculation of the FPA".

1	B. Hedging Activities
2	1. <u>History</u>
3	KCPL engaged in hedging activities
4	plants fueled by natural gas (fuel hedging
5	purchases (cross hedging). KCPL attemption
6	purchasing New York Mercantile Exchange
7	hedging activities are a component of its F.
8	traditional natural gas price hedge plan wi
9	natural gas price hedge plan. All of the IO
10	burned in its generators; however, KCPL an
11	price risk of electrical energy purchases.
12	In the Non-Unanimous Stipulation ar
13	No. ER-2016-0156, GMO agreed to:
14	suspend all of its hedging
15	(cross-hedging related to pu
16	hedging). Upon approval
17	natural gas. Any gains or loss
19	gas hedges will be flowed through
20	("FAC") without disallowanc
21	resume its natural gas fuel he
22	gas derivatives to cross-hedge
23	place and/or other factors cha
24	fuel hedging activities would
25	the Commission Staff and
26	("Public Counsel") II GMO d
27	hedging activities. In the ev
20 20	Account 254 Regulatory Lia
30	Account 182 3 Other Regula
31	Deferred Debits. This deferra
32	described in this paragraph an
33	for any other case or expense.
34	ratemaking treatment of any a
35	and the ongoing treatment of h

¹⁰² Natural gas future contracts are marketed through NYMEX (a division of the CME Group) and are financial transactions and no physical natural gas commodity will change hands. ¹⁰³ KCPL FUEL ADJUSTMENT CLAUSE - Rider FAC Original Sheet No. 50.2.

in an effort to reduce the risk of operating generation g) and price risk associated with electrical energy pted to manage these risks through a process of e (NYMEX) natural gas futures contracts.¹⁰² KCPL's AC.¹⁰³ KCPL's fuel hedging can be described as a hile its cross hedging program is a non-traditional Us in Missouri hedge for the natural gas fuel that is nd GMO have also used a hedging strategy to reduce

nd Agreement, filed on September 20, 2016, in Case

activities associated with natural gas rchased power and natural gas fuel of this Stipulation, GMO will vind all of its hedges associated with ses from the unwinding of the natural ough GMO's Fuel Adjustment Clause ce. The Signatories agree GMO may edging activities (but not use natural purchased power) should the market ange such that resuming natural gas be warranted. GMO agrees to notify the Office of the Public Counsel lecides to resume its natural gas fuel ent GMO resumes natural gas fuel record all hedging gains to FERC ability and hedging losses to FERC atory Assets or FERC Account 186, I is agreed upon for purposes solely nd does not apply to or set precedent All parties are free to argue for the amounts deferred under this language nedging costs.

1	Consistent with the Non-Unanimous Stipul
2	KCPL has also stopped using natural gas de
3	stopped hedging natural gas used as fuel as o
4	Staff recommends the Commission
5	(cross hedging and natural gas fuel hedging
6	notify the Commission Staff and the Public
7	fuel hedging activities. This suspension
8	Stipulation and Agreement, Filed September
9	Accordingly, Staff recommends accordingly
10	\$0.00 in permanent rates and \$0.00 to the FA
11	Staff Expert/Witness: David C. Roos
12	2. <u>Transmission</u>
13	Staff recommends to the Commission
14	to transmit electric power it did not generate
15	electric power it is selling to third parties at l
16	FAC. This recommendation is consistent wi
17	last general rate case (Case No. ER-2014-0
18	Beginning on page 34 of the Commission's
19	Commission stated the following:
20	The Commission has address
21 22	Ameren Missouri, the Commis
22	The avidence demonstrated th
23	MISO tariff, Ameren Missour
25	the MISO market and buys bac
26 27	its native load. From that is conclusion that since it sells
28	that power back, all such tra
29	purchased power within the
30	Commission does not accept th
31	FAC statute likely did not e
32	would consider all its generat
33	sales. In fact, the policy under

¹⁰⁴ Based on KCPL's response to Staff Data Request No. 0242.

lation and Agreement, in Case No. ER-2016-0156, erivatives to cross-hedge power transactions, and has of September 2016.¹⁰⁴

order KCPL to suspend all of its hedging activities g) associated with natural gas, and require KCPL to Counsel if KCPL decides to resume its natural gas should be consistent with the Non-Unanimous 20, 2016, in Case No. ER-2016-0156.

ounting schedules for this general rate case reflect C base factor for natural gas hedging.

that only SPP transmission costs that KCPL incurs for its own native load and costs to transmit excess locations outside of the SPP be included in KCPL's ith the Commission's Report and Order in KCPL's 0370) and represents no change to KCPL's FAC. Report and Order in File No. ER-2014-0370, the

sed this issue in recent rate cases. ued in File No. ER-2014-0258 for ssion stated:

hat for purposes of operation of the i sells all the power it generates into ck whatever power its needs to serve fact, Ameren Missouri leaps to its all its power to MISO and buys all ansactions are off system sales and meaning of the FAC statute. The his point of view. The drafters of the envision a situation where a utility tion purchased power or off system rlying the FAC statute is clear on its

Page 166

face. The statute is meant to and uncontrollable fluctuation power. At the time the statur complex present-day system, addition to the energy genera of what the utility needs to unexpected and out of the uti deviation from traditional rat the three reasons Ameren Mis earlier, the costs that should b transmit electric power it dio purchased power) and 2) cost is selling to third parties to lo sales). Any other interpretat FAC beyond its intent.
Similarly, in a subsequent rate case for T
ER-2016-0023) which is also a member of SI
Furthermore, as has been the created, the costs of transport generated by the utility or en- needs to serve its load are the the utility's control to such traditional rate making is just incurs related to transmission from a policy perspective and electric power it did not gener power"); or 2) Costs to transm to third parties to locations sales").
The evidence shows in this ca all of the power it generates from SPP 100% of the electr However, based on the Com cited above, it would not be la SPP transmission fees throu KCPL's transmission costs are measurable, and not unpredic The Commission concludes tha to be included in the FAC are did not generate to its own lo costs to transmit excess electri to locations outside of SPP (off

o insulate the utility from unexpected ns in transportation costs of purchased ite was drafted, and even in our more the costs of transporting energy in ated by the utility or energy in excess serve its load are the costs that are ility's control to such an extent that a te making is justified. Therefore, of issouri incurs transmission costs cited be included in the FAC are 1) costs to d not generate to its own load (true ts to transmit excess electric power it cations outside of MISO (off-system tion would expand the reach of the

The Empire District Electric Company, (Case No.

PP, the Commission concluded:

ne case since the FAC statute was ting energy in addition to the energy nergy in excess of what the utility costs that are unexpected and out of an extent that a deviation from stified. Therefore, the costs Empire that are appropriate for the FAC, by statute, are: 1) Costs to transmit rate to its own load ("true purchased nit excess electric power it is selling outside of its RTO ("Off-system

se that on a daily basis, KCPL sells into the SPP market and purchases ricity it sells to its retail customers. mission's analysis in the two cases awful for KCPL to recover all of its gh the FAC. In addition, while e increasing, those costs are known, stable, so the costs are not volatile. at the appropriate transmission costs 1) costs to transmit electric power it oad (true purchased power); and 2) ic power it is selling to third parties f-system sales).

1	Staff recommends that the Commission conti
2	("RTO") administrative fees and Regulat
3	These expenses are administrative in nature
4	expenses. This is consistent with the Comm
5	rate case, Case No. ER-2014-0370, and re-
6	Beginning on page 36 of the Commission's
7	Commission stated the following:
8	KCPL has requested that S
9	included in its FAC. The Co
10	administrative in nature and
11	purchased power costs. Thes
12	needs of its customers. These
13	power expenses nor transpor
15	fuel or purchased power.
16	including such fees would be
17	RSMo, and, therefore, Sched
18	hase rates.
20	Staff Expert/Witness: David C. Roos
21	C. Revising the Base Factor
22	Correctly setting the Base Factor in k
23	functioning FAC and a well-functioning FAC
23 24	functioning FAC and a well-functioning FAC recommends the Commission require the Bas
23 24 25	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir
23 24 25 26	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case.
23 24 25 26 27	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case. Table 1 below shows three scenarios
23 24 25 26 27 28	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case. Table 1 below shows three scenarios FAC Base Factor are equal to, less than, or
23 24 25 26 27 28 29	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case. Table 1 below shows three scenarios FAC Base Factor are equal to, less than, or requirement upon which the Commission sets
23 24 25 26 27 28 29 30	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case. Table 1 below shows three scenarios i FAC Base Factor are equal to, less than, or requirement upon which the Commission sets
 23 24 25 26 27 28 29 30 31 	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case. Table 1 below shows three scenarios i FAC Base Factor are equal to, less than, or requirement upon which the Commission sets
 23 24 25 26 27 28 29 30 31 32 	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case. Table 1 below shows three scenarios i FAC Base Factor are equal to, less than, or requirement upon which the Commission sets
 23 24 25 26 27 28 29 30 31 32 33 	functioning FAC and a well-functioning FAC recommends the Commission require the Bas Energy Cost that the Commission includes ir general rates in this case. Table 1 below shows three scenarios i FAC Base Factor are equal to, less than, or requirement upon which the Commission sets

inuc to exclude Regional Transmission Organization tory Commission Expense from KCPL's FAC. and are not related to fuel and purchased power nission's Report and Order in KCPL's last general represents no change to KCPL's existing FAC. Report and Order in Case No. ER-2014-0370, the

PP Schedule 1-A and 12 fees be commission finds that these fees are not directly linked to fuel and se fees support the operation of SPP to buy and sell energy to meet the fees are neither fuel and purchased tation expenses incurred to deliver The Commission concludes that unlawful under Section 386.266.1, ule 1-A and 12 fees should not be fees are appropriate for recovery in

KCPL's FAC tariff sheets is critical to both a well-C sharing mechanism. For the reasons below, Staff se Factor in KCPL's FAC be set based on the Base in the revenue requirement on which it sets KCPL's

in which the FAC Base Energy Cost used to set the greater than the Base Energy Cost in the revenue general rates:

	Table 1: Base Ener	gy C	ost Case Stud	es			
			Case 1		Case 2		Case 3
		E	ergy Cost in	E	nergy Cost in	E	nergy Cost in
	05%/5% Sharing Machanism	FA	C Equal To	FA	C <u>Less Than</u>	F	AC Greater
	3576/576 Sharing Wreenanism	Bas	e Energy Cost	Bas	se Energy Cost		<u>Than</u> Base
Line		j i	1 Rev. Req.	i	n Rev. Req.	E	nergy Cost in
а	Revenue Requirement	\$	10,000,000	\$	10,000,000	\$	10,000,000
b	Base Energy Cost in Rev. Req.	\$	4,000,000	\$	4,000,000	\$	4,000,000
с	Base Energy Cost in FAC	\$	4,000,000	\$	3,900,000	\$	4,100,000
	Outcome 1: Actual Energy Cost G	reat	er Than Base	Ene	rgy Cost in Rev	/enu	e Requirement
d	Actual Total Energy Cost	\$	4,200,000	S	4,200,000	\$	4,200,000
	Billed to Customer:						
= b	in Permanent Rates	\$	4,000,000	\$	4,000,000	\$	4,000,000
$= (d - c) \times 0.95$	through FAC	\$	190,000	S	285,000	\$	95,000
f = b + e	Total Billed to Customers	\$	4,190,000	\$	4,285,000	\$	4,095,000
g=f-d	Kept/(Paid) by Company	\$	(10,000)	\$	85,000	\$	(105,000)
	Outcome 2: Actual Energy Cost	Less	Than Base E	nerg	y Cost in Reve	næ I	Requirement
h	Actual Energy Cost	\$	3,800,000	\$	3,800,000	\$	3,800,000
	Billed to Customer:						···· ·····
= b	in Permanent Rates	\$	4,000,000	\$	4,000,000	\$	4,000,000
$= (h - c) \times 0.95$	through FAC	\$	(190,000)	\$	(95,000)	\$	(285,000)
j = b + i	Total Billed to Customers	\$	3,810,000	\$	3,905,000	\$	3,715,000
k=j-h	Kept/(Paid) by Company	\$	10,000	\$	105,000	\$	(85,000)

1

2

Case 1 illustrates that if the FAC Base Energy Cost used for the Base Factor is equal to 3 the Base Energy Cost in the revenue requirement used for setting general rates, the utility does 4 not over or under-collect as a result of the level of total actual energy costs. The FAC works as it 5 is intended to. 6 Case 2 illustrates that if the FAC Base Energy Cost used for the Base Factor is less than 7 the Base Energy Cost in the revenue requirement used for setting general rates, the utility will 8 collect more than was intended and customers pay more than the FAC was designed for them to 9 10 pay, regardless of the level of actual energy costs.

Case 3 illustrates that if the FAC Base Energy Cost used for the Base Factor is greater 11 than the Base Energy Cost in the revenue requirement used for setting general rates, the utility 12 will not collect all of the costs that was intended in the FAC design, and customers pay less than 13 14 the entire amount intended regardless of the level of actual energy costs.

1	These three cases illustrate the im
2	correctly, i.e., revising the Base Factor
3	requirement used for setting general rates. T
4	match Base Energy Cost in the Commission
5	because it does not lead to over- or under-co
6	FAC is intended to work.
7	Staff Expert/Witness: David C. Roos
8	D. Additional Reporting Requirem
9	Due to the accelerated Staff review
10	Staff recommends the Commission again or
11	information as part of its monthly reports:
12	1. As part of the information K
13	to change its Fuel and Purch
14	calculation of the interest incl
15	2. Maintain at KCPL's corpor
16	agreed-upon place and make
17	for review, a copy of each ar
18	fuel oil, and nuclear fuel cont
19	previous four years;
20	3. Within 30 days of the eff
21	transportation, natural gas, fu
22	into, KCPL provide both noti
23	to review the contract at KC
24	mutually-agreed-upon place;
25	4. Provide a copy of each and e
26	the time the tariff changes or
27	into effect for Staff to retain;
	¹⁰⁵ The company must file its FAC adjustment 60 days
	has 30 days to review the filing and make a recommend

to approve or deny Staff's recommendation. ¹⁰⁶ In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service, Case No. ER-2014-0370, (Report and Order, issued September 2, 2015) pp. 47-48.

nportance of setting the Base Factor in the FAC to match the Base Energy Cost in the revenue Therefore Staff recommends the Base Factor be set to on ordered revenue requirement, as shown in Case 1, collection, which is preferred, and illustrates how the

ients

process necessary with FAC adjustment filings, 105 order¹⁰⁶ KCPL to continue to provide the following

CPL submits when it files a tariff modification hased Power Adjustment rate, include KCPL's luded in the proposed rate;

rate headquarters or at some other mutually available within a mutually-agreed-upon time nd every coal, coal transportation, natural gas, ract KCPL has that is in or was in effect for the

fective date of each and every coal, coal iel oil, and nuclear fuel contract KCPL enters ice to the Staff of the contract and opportunity CPL's corporate headquarters or at some other

every KCPL hedging policy that is in effect at rdered by the Commission in this rate case go

prior to the effective date of its proposed tariff sheet. Staff dation to the Commission. The Commission then has 30 days

1	5. Within 30 days of any change
2	the changed hedging policy for
3	6. Provide a copy of KCPL's in
4	Integrated Market;
5	7. Maintain at KCPL's corpora
6	agreed-upon place and make a
7	for review, a copy of eac
8	sales/purchase contract;
9	8. If KCPL revises any internal
10	30 days of that revision, pr
11	the revisions identified for Sta
12	report supplied by KCPL 1
13	explicitly designate fixed and
14	unit burned, including commo
15	and any additional fixed or va
16	per unit reported.
17	Staff Expert/Witness: David C. Roos
18	E. Fuel Adjustment Clause Heat Ra
19	Whenever an electric utility requests t
20	as a Fuel Adjustment Clause ("FAC") be cont
21	3.161(3)(Q) specifies that the electric utility.
22	testimony in a general rate proceeding:
23	(Q) The results of heat rate tes
24 25	HRSG ¹⁰⁷ , steam turbines and
26	within the previous twenty-four
27	The Commission first authorized KCPL's FAC
28	that its FAC be continued with modification in

.

¹⁰⁷ Heat recovery steam generator.

in a KCPL hedging policy, provide a copy of r Staff to retain;

internal policy for participating in the SPP's

ate headquarters or at some other mutually available within a mutually agreed-upon time ch and every bilateral energy or demand

policy for participating in the SPP, within rovide a copy of the revised policy with aff to retain; and, the monthly as-burned fuel required by 4 CSR 240-3.190(1)(B) shall variable components of the average cost per odity, transportation, emissions, tax, fuel blend, ariable costs associated with the average cost

ate and Efficiency Testing

that a Rate Adjustment Mechanism ("RAM") such tinued or modified, Commission Rule 4 CSR 240shall file specific information as part of its direct

sts and/or efficiency tests on all the d non-nuclear steam generators, d combustion turbines conducted (24) months;

C in Case No. ER-2014-0370. KCPL is requesting this case.

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1	Company witness Burton L. Crawfor
2	that identify supply-side and demand-side res
3	and which also contain the results of the r
4	KCPL's generating units.
5	Each generating unit's fuel type and
6	2017, 2018, 2019 and 2020 are contained in S
7	Schedule BLC-6 contains the results
8	Additional information necessary to comply v
9	responses to Staff Data Request No. 0189 and
10	Staff's review of Company witness Bu
11	Staff Data Request 0189, and KCPL's respon
12	each generating unit meets the previous 24-m
13	Rule 4 CSR 240-3.161(3)(Q).
14	Staff Expert/Witness: J Luebbert
15	XII. Other Miscellaneous Issues
15 16	XII. Other Miscellaneous Issues A. Clean Charge Network
15 16 17	 XII. Other Miscellaneous Issues A. Clean Charge Network 1. <u>KCPL Clean Char</u>
15 16 17 18	 XII. Other Miscellaneous Issues A. Clean Charge Network 1. <u>KCPL Clean Char</u> KCPL and GMO have launched an
15 16 17 18 19	 XII. Other Miscellaneous Issues A. Clean Charge Network 1. <u>KCPL Clean Char</u> KCPL and GMO have launched an electric vehicle ("EV") charging stations the
15 16 17 18 19 20	 XII. Other Miscellaneous Issues A. Clean Charge Network <u>KCPL Clean Charge</u> KCPL and GMO have launched an electric vehicle ("EV") charging stations the KCPL's Missouri and Kansas territories and G
15 16 17 18 19 20 21	 XII. Other Miscellaneous Issues A. Clean Charge Network <u>KCPL Clean Charge</u> KCPL and GMO have launched an electric vehicle ("EV") charging stations the KCPL's Missouri and Kansas territories and 0 or "CCN").¹¹⁰ KCPL submitted a new tariff
15 16 17 18 19 20 21 21 22	 XII. Other Miscellaneous Issues A. Clean Charge Network <u>KCPL Clean Charge</u> <u>KCPL and GMO have launched an</u> electric vehicle ("EV") charging stations the KCPL's Missouri and Kansas territories and 0 or "CCN").¹¹⁰ KCPL submitted a new tariff
15 16 17 18 19 20 21 22 23	 XII. Other Miscellaneous Issues A. Clean Charge Network <u>KCPL Clean Charge</u> <u>KCPL and GMO have launched an</u> electric vehicle ("EV") charging stations the KCPL's Missouri and Kansas territories and 0 or "CCN").¹¹⁰ KCPL submitted a new tariff Schedule CCN) to charge EV owners who for stations throughout the KCPL region. The Feature Schedule CCN is the stations throughout the KCPL region. The Feature Schedule CCN is a station of the station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region. The Feature Schedule CCN is a station of the KCPL region.
15 16 17 18 19 20 21 22 23 23 24	 XII. Other Miscellaneous Issues A. Clean Charge Network <u>KCPL Clean Charge</u> <u>KCPL Clean Charge</u> <u>KCPL and GMO have launched an</u> electric vehicle ("EV") charging stations the KCPL's Missouri and Kansas territories and 0 or "CCN").¹¹⁰ KCPL submitted a new tariff Schedule CCN) to charge EV owners who for stations throughout the KCPL region. The Howners for the first two years of the program.
15 16 17 18 19 20 21 22 23 24	 XII. Other Miscellaneous Issues A. Clean Charge Network <u>KCPL Clean Charge</u> KCPL and GMO have launched an electric vehicle ("EV") charging stations the KCPL's Missouri and Kansas territories and 0 or "CCN").¹¹⁰ KCPL submitted a new tariff Schedule CCN) to charge EV owners who for stations throughout the KCPL region. The Howners for the first two years of the program.
15 16 17 18 19 20 21 22 23 24	 XII. Other Miscellaneous Issues A. Clean Charge Network <u>KCPL Clean Charge</u> KCPL and GMO have launched an electric vehicle ("EV") charging stations the KCPL's Missouri and Kansas territories and G or "CCN").¹¹⁰ KCPL submitted a new tariff Schedule CCN) to charge EV owners who f stations throughout the KCPL region. The H owners for the first two years of the program. ¹⁰⁸ In the Matter of Kansas City Power & Light Comparison for the first two sets to charge for Electric Service, Case No. ER-2016-0285 (Filed July 1, 2016). ¹⁰⁹ In the Matter of Kansas City Power & Light Comparison for the first for the f

filed July 1, 2016). ¹¹⁰ In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Lines 2-5.

rd filed testimony that included several attachments sources expected to meet KCPL's load requirements most recent heat rate/efficiency tests for many of

expected annual MWh dispatch levels for years Schedule BLC-5.¹⁰⁸

of heat rate tests for KCPL's generating units.¹⁰⁹ with 4 CSR 240-3.161(3)(Q) is provided in KCPL's Staff Data Request No. 0309.

urton L. Crawford's testimony, KCPL's response to nse to Staff Data Request No. .0309 confirms that nonth heat rate testing requirement of Commission

ge Network Schedule CCN ("CCN") Tariff

initiative to install and operate more than 1,000 roughout the Greater Kansas City region within GMO service territories ("Clean Charge Network" (Public Electric Vehicle Charging Station Service fill up/charge their vehicles at the CCN charging Pilot Program consisted of free electricity for EV The two year "free" period will end December 31,

my's Request for Authority to Implement a General Rate (Direct testimony of Burton L. Crawford, Schedule BLC-5,

ny's Request for Authority to Implement a General Rate (Direct testimony of Burton L. Crawford, Schedule BLC-6,

Increase for Electric Service, Case No. ER-2016-0285 (Direct Testimony of Tim Rush, filed July 1, 2016) Page 21,

Page 172

1	2016. The proposed Schedule CCN dictates
2	discretionary session charges set by the host si
3	The CCN is designed to address KC
4	service KCPL's mobile customers when the
5	specific to KCPL-owned charging stations av
6	service territory. The proposed tariff does not
7	residences or at privately owned and opera
8	provided at their sites specifically for their emp
9	The total budgeted capital cost for
10	\$16.6 million of which, based upon the se
11	\$6 million would represent the budgeted inv
12	result of situs-based allocators. In addition
13	operations and maintenance ("O&M") expens
14	KCPL's Missouri jurisdiction. ¹¹²
15	The CCN project involves just over
16	GMO's service territories. The actual number
17	determined, in part, by host interest. KCPL i
18	stations ¹¹³ with Commission approval required
19	After reviewing all of the information
20	docket; (File No EW-2016-0123, In the Matte
21	Charging Facilities), Staff counsel advises the
22	Commission to regulate the operation of EV ch
23	Staff counsel further advises that the propose
24	permitting unregulated third parties to set a por
25	STAFF RECO
26	Staff manmondo that the Commissio
20	subject to revisions addressing the session
<i>L</i> !	subject to revisions addressing the session of
	¹¹¹ Id. at Page 21. Lines 9-16.

112 <u>Id.</u> at Page 28, Lines 9-10.
 113 <u>Id.</u> (Rush's testimony cites 350 charging stations for KCPL-Mo, while the tariff cites 400 charging stations.)
 114 <u>Id.</u> at Page 28, Lines 7-11.

the allowable energy charges for EV owners and ite owners, which will be explained further below. PL's service territories (KCPL and GMO) and to ney are in KCPL's certificated territory.¹¹¹ It is vailable to the public throughout KCPL's Missouri address charging of EVs at customer single-family ated charging stations like some businesses have ployees and guests.

the (whole) project (Kansas and Missouri) is ervice territory deployment plan, approximately vestment in KCPL's Missouri jurisdiction as the m to these costs, KCPL anticipates total annual se of roughly \$250,000 which will be allocated to

1,000 charging stations throughout KCPL and r of charging stations located in Missouri will be included a cap in Schedule CCN of 400 charging for additional stations under the tariff.¹¹⁴

n presented at the workshop and provided in the er of a Working Case Regarding Electric Vehicle hat existing Missouri law generally requires the harging stations and the rates charged for their use. ed session charges violates § 393.130, RSMo, by rtion of rates.

MMENDATIONS

on only approve KCPL'S proposed tariff sheets charge and on the condition that all revenues,

1	expenses and investment associated with the
2	hold ratepayers harmless. Please see the A
3	Revenue Requirement Report submitted by K
4	Schedule 10 of Staff's KCPL Accounting S
5	Plant in Service, Adjustment P-290.1, and S
6	Adjustment R-290.1. The deferred tax adjustn
7	Rate Base.
8	Further, consistent with its recomm
9	recommends KCPL be required to gather d
10	interested stakeholders on the impact of electri
11	To learn from the pilot projects, Staff r
12	to the Commission and interested stakeholders
13	such as:
14	1. EV Load Leveling
15	a. Did the load increase overni
16	b. Did the load level as a direc
17 18	c. Did the EV load allow the recover over a greater amou
19	d. Impact on customer bills due
20	e. Did the EV network prevent
21 22	f. Did the EV network smoo evening?
23	2. The IOUs explore various emer
24	demand-response, supply-side re
25	Staff Expert/Witness: Byron M. Murray
26	2. <u>Clean Charge Netw</u>
27	After the Commission concluded in Ca
28	its burden of proof to demonstrate that the cl
29	service territory as of May 31, 2015, should
	· · · · · · · · · · · · · · · · · · ·

¹¹⁵ In the Matter of a Working Case Regarding Electric Vehicle Charging Facilities, File No. EW-2016-0123, (Corrected Staff Report, filed August 9, 2016). Page 30.

e program are recorded below-the-line in order to Audit Sections explanation in the Cost of Service Keith Majors. Staff's adjustments are identified on Schedules, Adjustment E-154.4, and Schedule 3 – Schedule 6 – Accumulated Depreciation Reserve, ment is identified on Staff Accounting Schedule 2 –

mendations in File No. EW-2016-0123, Staff lata and report annually to the Commission and ic vehicle charging stations on grid reliability.

recommends KCPL gather data and report annually rs on the impact of EVs on grid reliability as items

ight due to EV charging? et result of the EV charging network? utilities to spread out fixed generation cost and int of electricity sold? ne to EV load and the resulting load leveling? t periods of over-generation? oth out large load ramps in the morning and

rging technologies and their impact on the areas of resourcing and second battery life programs¹¹⁵.

vork Expenses and Plant Investment

ase No. ER-2014-0370 that KCPL "failed to meet harging stations placed in service in its Missouri be included in rate base as a part of the revenue
1	requirement for this case," The Comm
2	EW-2016-0123, and ordered Staff to investi
3	issues related to both the installation and
4	associated sale of electricity to electric veh
5	docket on August 5, 2016, and within it,
6	electric vehicle charging stations. On Octobe
7	In this case Staff recommends the re
8	accumulated depreciation reserve related to
9	service. The rationale for Staff's recommen
10	Murray in a separate section of this report.
11	KCPL's response to Staff Data Requi
12	the plant in service and O&M expense relat
13	Deferred taxes related to this plant-in-service
14	estimated the accumulated depreciation reserved
15	Network as of June 30, 2016. Staff will upda
16	changes through the true-up date of Decembe
17	Staff's adjustments are identified on S
18	Adjustment E-154.4, and Schedule 3 – Plant
19	Accumulated Depreciation Reserve, Adjust
20	identified on Staff Accounting Schedule 2 – F
21	Staff Expert/Witness: Keith Majors
22	B. Test Year MEEIA Costs
23	Since KCPL's MEEIA program cost
24	adjustments E-180.5 and E-184.1 to remove
25	calculation.
26	Staff Expert/Witness: Matthew R. Young
	a

nission established a working docket, File No. igate and report on the legal and policy regulatory operation of electric charging facilities and the nicle owners. Staff filed a report in this working Staff made several recommendations concerning er 20, the Commission closed the working docket.

emoval of the O&M expense, plant in service, and the Clean Charge Network from KCPL's cost of ndation is explained in the testimony of Byron M.

uest 206 in this Case, No. ER-2016-0285, identified ted to the Clean Charge Network as of June 2016. were identified as of December 31, 2015. Staff has rve and deferred taxes related to the Clean Charge te these amounts with actual known and measurable er 31, 2016.

Schedule 10 of Staff's KCPL Accounting Schedules, t in Service, Adjustment P-290.1, and Schedule 6 stment R-290.1. The deferred tax adjustment is Rate Base.

sts are recovered outside of base rates, Staff made e test year MEEIA costs from the cost of service

1	C. Light Emitting Diode ("LED"
2	On June 1, 2016, KCPL filed with the
3	pursue a structured conversion of all roadwa
4	lighting) to LED fixtures. On June 2, 2016
5	Counsel, a LED Roadway Lighting Evaluat
6	and workpaper to support the tariff sheet fili
7	KCPL-Missouri jurisdiction, it be allowed t
8	lighting (non-decorative, pole mounted, over
9	proposed to convert an estimated seven
10	approximate six (6) month period using
11	equivalent in lighting efficacy to the current l
12	areas during times that will efficiently u
13	September 2, 2016, KCPL informed Staff the
14	inventory and had been in contact with the cit
15	KCPL states in its Report:
16	Company research and research
17	that LED lighting is a via
19	and standardization of the LE
20	vendors, allowing the Comp
21	suitable for deployment. Prior
22	standard and incorporating it
23 24	before a Request for Propose
25	would become obsolete. A
26	luminaires. While still higher
27	alternatives, luminaire prices l
28 29	past year to a point where feasible.
30	KCPL also stated in its Report that, "Althoug
31	does not address decorative lighting, area li
32	continue to monitor the available options and
33	applications as it becomes practical to do so."
	· · · · · · · · · · · · · · · · · · ·

¹¹⁶ On July 1, 2016, the revised tariff sheets as filed on June 1, 2016, went into effect.

") Street and Area Lighting ("SAL")

the Commission revised tariff sheets¹¹⁶ to allow it to ay lighting (non-decorative, pole mounted, over road 5, KCPL provided to Staff and the Office of Public tion Summary and Conversion Proposal ("Report") ing. Within the Report, KCPL proposed that for its to complete a structured conversion of all roadway road lighting) to LED luminaires. KCPL-Missouri thousand five hundred (7,500) lights over an a combination of four (4) LED luminaire sizes lights. KCPL intends to convert lights in geographic utilize its crews and minimize travel time. On ey had completed procuring LED fixtures into their ties where the conversion would start.

ch results obtained publically support able option for lighting of public gnificant development, improvement, ED technology occurring among the pany to identify luminaire options to 2016, the rate of change for LED support definition of a LED lighting to Company inventories. Often, al could be executed, light designs lso of note is the price for LED per unit than the more mature HPS have declined significantly over the the installations are economically

gh this proposal is limited to roadway lighting and ighting, or directional lighting, KCP&L intends to will propose implementation of LED under these

1	Through recent email correspondence
2	informed, in as much detail as possible and to
3	that includes a status report on the progress
4	lighting to LED; and 2) evaluation of the viab
5	to LED. With this agreement by KCPL, Staf
6	LED lighting.
7	Staff Expert/Witness: Brad J. Fortson
8	D. Renewable Energy Standard -
9	Pursuant to 4 CSR 240-20.100 (6)(I
10	compliance costs. The rule provides that KCF
11 12 13 14 15 16 17 18 19 20 21	recover RES compliance conthrough rates established in interval between general rate product of the costs in a regulatory a carrying charge on the balance equal to its short-term cost of to rate recovery of the RES general rate proceeding will including the prudence of the sought and the period of time recovery will be amortized.
22	On April 19, 2012, the Commission authorize
23	Case No. EU-2012-0131 to:
24 25 26 27 28 29 30 31 32	(a) record all incremental ope cost of solar rebates, the cost to the cost of the standard offer a result of compliance with Mis Law in USOA Account 182; the Compan[y's] short term regulatory assets; and (c) d regulatory asset with the dis Compan[y's] next general rate

EU-2012-0131, (Order Approving and Incorporating Stipulation and Agreement), at page 2.

ice, KCPL has agreed to continue to keep Staff the extent possible, by providing an annual update KCPL has made in: 1) conversion of its roadway bility of converting current area lighting technology ff makes no recommendations at this time related to

Costs

D), the RES rule provides a recovery option for PL may:

osts without the use of a RESRAM a general rate proceeding. In the proceedings, the electric utility may asset account and monthly calculate ince in that regulatory asset account borrowing. All questions pertaining compliance costs in a subsequent be reserved to that proceeding, e costs for which rate recovery is over which any costs allowed rate

ed KCPL's use of an accounting authority order in

erating expenses associated with the o purchase renewable energy credits, and other related costs incurred as a ssouri's Renewable Energy Standard (b) include carrying costs based on debt rate on the balances in those lefer such amounts in a separate isposition to be determined in the cases.¹¹⁷

¹¹⁷ In the Matter of Kansas City Power & Light Company and KCP&L Greater Missouri Operations Company's Notice of Intent to File a Joint Application for an Accounting Authority Order Related to its Electrical Operations, Case No.

Page 177

1	In Case No. ER-2012-0174, a regulatory
2	August 31, 2012, and recovery of those cost
3	defined in that case is labeled Vintage 1 and
4	with the Stipulation and Agreement in Cas
5	tracking of the Vintage 1 amortization to the
6	recovery of Vintage 1.
7	Similar to Staff's recommended to
8	recommends that once the amortization of a
9	that will continue to be collected in rates fo
10	current deferred RES program costs.
11	In Adjustment E-188.1, Staff has ir
12	through June 30, 2016, with the recovery per
13	Staff will continue to examine RES costs t
14	adjustments to the recovery period as needed.
15	Staff Expert/Witness: Matthew R. Young
16	XIII. Appendices
17	Appendix 1 - Staff Credentials
18	Appendix 2 - Support for Staff Cost of Capita
17	
20	Appendix 3 – Other Staff Schedules
21 22	- Claire M. Eubanks, PE
23 24	Recommended Depreciation Ra - Keenan B. Patterson, PE

asset was established for costs incurred through sts was set for three (3) years. The regulatory asset nd was completed in January, 2016. In compliance se No. ER-2014-0370, KCPL applied prospective e current RES costs deferred in Vintage 3, after full

treatment of other expiring amortizations, Staff a vintage is complete, KCPL should apply the funds or the amortization of the recovered vintage to the

ncluded deferred RES costs (Vintage 3) incurred riod set at three years. As part of its True-Up audit, through December 31, 2016, and make additional

al Recommendation

t – In-Service Criteria

ates

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

SS.

STATE OF MISSOURI)
)
COUNTY OF COLE)

COMES NOW ALAN J. BAX and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this _28th day of November, 2016.

	D. SUZIE MANKIN
	Notary Public - Notary Seal
	State of Missouri
į	Commissioned for Cole County
	My Commission Expires: December 12, 2016
1	Commission Number: 12412070

OF THE STATE OF MISSOURI

Case No. ER-2016-0285)

AFFIDAVIT OF ALAN J. BAX

ALAN-J. BAX

Motary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Case No. ER-2016-0285) Implement A General Rate Increase for) Electric Service)

AFFIDAVIT OF MICHELLE BOCKLAGE

STATE OF MISSOURI COUNTY OF COLE

SS.

))

ì

COMES NOW MICHELLE BOCKLAGE and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report - Revenue Requirement - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this $\frac{28^{44}}{28}$ day of November, 2016.



-

OF THE STATE OF MISSOURI

Bocklage MICHELLE BOCKLAGE

Suzellankin Notary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI)	
)	ss.
COUNTY OF COLE)	

COMES NOW KORY BOUSTEAD and on her oath declares that she is of sound mind and

lawful age; that she contributed to the foregoing Staff Report - Revenue Requirement - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this $29 \frac{14}{5}$ day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285)))

AFFIDAVIT OF KORY BOUSTEAD

Muzillankin Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW DANA E. EAVES and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

DANA E. EAVES

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285))

AFFIDAVIT OF DANA E. EAVES

uziellanken Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF CLAIRE M. EUBANKS, PE

STATE OF MISSOURI COUNTY OF COLE

SS.

COMES NOW CLAIRE M. EUBANKS, PE and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report - Revenue Requirement - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28^{H} day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285

<u>Claire MErbourts</u> CLAIRE M. EUBANKS, PE

Ausultankin Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW CARY G. FEATHERSTONE and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement-Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

CARV G. FEATHERSTONE

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of November, 2016.

D SUZIE MANKIN	1
Notary Public - Notary Seal	l
State of Missouri	I
Commissioned for Cole County	l
My Commission Expires: December 12, 2016	ļ
Commission Number: 124120/0	ł

OF THE STATE OF MISSOURI

ì Case No. ER-2016-0285

AFFIDAVIT OF CARY G. FEATHERSTONE

<u>Notary Public</u>

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF BRAD J. FORTSON

STATE OF MISSOURI)
)
COUNTY OF COLE)

SS.

COMES NOW BRAD J. FORTSON and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.



JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of November, 2016.



.

OF THE STATE OF MISSOURI

Case No. ER-2016-0285

BRAD J. EØRTSON

Suziellankin Notary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI)
COUNTY OF COLE)

SS.

COMES NOW TAMMY HUBER and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report - Revenue Requirement - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

Janung Huber TAMMY HUBER

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28 th day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285)))

AFFIDAVIT OF TAMMY HUBER

Susullankin Notary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI COUNTY OF COLE

SS.

COMES NOW J LUEBBERT and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this $-\frac{28+1}{2}$ day of November, 2016.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
 My Commission Expires: December 12, 2016
Commission Number: 12412070

OF THE STATE OF MISSOURI

Case No. ER-2016-0285)))

AFFIDAVIT OF J LUEBBERT

J LUEBBERT

Jusullankin Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI COUNTY OF COLE

.

SS.

COMES NOW KAREN LYONS and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report - Revenue Requirement - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this _28th day of November, 2016.

D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 12, 2016 Commission Number: 12412070

OF THE STATE OF MISSOURI

) Case No. ER-2016-0285)))

AFFIDAVIT OF KAREN LYONS

KAREN LYONS

Jusullankin Notary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW KEITH MAJORS and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

KEITH MAJORS

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this $28\frac{4}{2}$ day of November, 2016.

Ø=====	
D SUZIE MANKIN)
NOTARY PUDIC - Notary Seal	
State of Missouri	
UCOMMISSIONED FOR Cole County	
My Commission Evokes: December 12, 2016	
THE OWNER PORT CAPRES. DECEMBER 12, 2010	
Commission Number: 12412070	

OF THE STATE OF MISSOURI

Case No. ER-2016-0285)))

AFFIDAVIT OF KEITH MAJORS

Muziellankin Hotary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF ERIN L. MALONEY, PE

STATE OF MISSOURI COUNTY OF COLE)

ss.

COMES NOW ERIN L. MALONEY, PE and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report - Revenue Requirement - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

P.C. ERIN L. MALONEY, PE

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this _28th day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285))

<u>Suzellankin</u> Notary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW BYRON M. MURRAY and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this <u>28th</u> day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285) ì

AFFIDAVIT OF BYRON M. MURRAY

BYRONM. MURRAY

uzuellan Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF ANTONIJA NIETO

STATE OF MISSOURI)
)
COUNTY OF COLE)

SS.

COMES NOW ANTONIJA NIETO and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report - Revenue Requirement - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this $28\frac{4}{2}$ day of November, 2016.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2016
Commission Number: 12412070

OF THE STATE OF MISSOURI

Case No. ER-2016-0285))

ANTONIJA NIETO

Dusiellankin Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF KEENAN B. PATTERSON, PE

)	
)	SS.
)	
)))

COMES NOW KEENAN B. PATTERSON, PE and on his oath declares that he is of sound

mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement-Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

KEENAN B. PATTĔRSON, PE

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this $29^{4/2}$ day of November, 2016.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2016
Commission Number: 12412070

OF THE STATE OF MISSOURI

Case No. ER-2016-0285))

Muziellankin Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF CHARLES T. POSTON, PE

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW CHARLES T. POSTON, PE and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 384 day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285))

CHARLES T. POSTON, PE

Notary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

ss.

STATE OF MISSOURI)
)
COUNTY OF COLE)

COMES NOW DAVID C. ROOS and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 294 day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285)))

AFFIDAVIT OF DAVID C. ROOS

D. D. C. hon DAVID C. ROOS

Aluziellankin Notary Public

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF MICHAEL L. STAHLMAN

STATE OF MISSOURI COUNTY OF COLE) ss.

COMES NOW MICHAEL L. STAHLMAN and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28^{H} day of November, 2016.



OF THE STATE OF MISSOURI

Case No. ER-2016-0285

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MICHAEL L. STAHLMAN

Notary Public

In the Matter of Kansas City Power & Light) Company's Request for Authority to Implement A General Rate Increase for Electric Service

AFFIDAVIT OF MICHAEL JASON TAYLOR

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW MICHAEL JASON TAYLOR and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement-Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

MICHAEL JASON TAYLOR JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28% day of November, 2016.

l	D. SUZIE MANKIN
	Notary Public - Notary Seal
	State of Missouri
	Commissioned for Cole County
	My Commission Expires: December 12, 2016
1	Commission Number: 12412070

OF THE STATE OF MISSOURI

Case No. ER-2016-0285) Ì)

<u>Jusellankin</u> Notary Public

OF THE STATE OF MISSOURI

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In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

Case No. ER-2016-0285

AFFIDAVIT OF MICHAEL JASON TAYLOR

STATE OF MISSOURI)	
)	ss.
COUNTY OF COLE)	

COMES NOW MICHAEL JASON TAYLOR and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement-Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Ante	Par / gla
MICHAEL	JASON AYLOR
JURAT	\mathcal{O}

	Subscri	bed	and s	worn	before	me, a	dul	y coi	nstitut	ed	and autho	rized	Notary	[,] Publi	c, in	and for
the	County	of	Cole,	State	of Mi	ssouri,	at	my	office	in	Jefferson	City,	on th	is <u>2</u>	<u>84</u>	day of
No	vember,	201	.6.													

D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 12, 2016 Commission Number: 12412070

Suzellankin Notary Public

OF THE STATE OF MISSOURI

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In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

Case No. ER-2016-0285

AFFIDAVIT OF SEOUNG JOUN WON, PhD

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW SEOUNG JOUN WON, PhD and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28 day of November, 2016.

D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 12, 2016 Commission Number: 12412070

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OF THE STATE OF MISSOURI

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In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

Case No. ER-2016-0285

AFFIDAVIT OF J. RANDALL WOOLRIDGE

COMMONWEALTH OF PENNSYLVANIA)	
)	SS.
COUNTY OF CENTRE)	

COMES NOW J. RANDALL WOOLRIDGE and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement-Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

WOOLRIDGE

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Centre. Commonwealth of Pennsylvania, at my office in State College, PA, on this 23% day of November, 2016.

Notary Public

COMMONWEALTH OF PERNSYLVANIA NOTARIAL SEAL RONALD E FLEBOTTE Notary Public STATE COLLEGE BORD, CENTRE COUNTY My Commission Expires Nov 10, 2019

OF THE STATE OF MISSOURI

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In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

Case No. ER-2016-0285

AFFIDAVIT OF MATTHEW R. YOUNG

STATE OF MISSOURI)	
)	SS
COUNTY OF COLE)	

COMES NOW MATTHEW R. YOUNG and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Revenue Requirement- Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

MATTHEW R. YOUNG

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28 day of November, 2016.

D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 12, 2016 Commission Number: 12412070

Descupellankin Notary Public