BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

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In the Matter of the 2020 Wolf Creek Triennial Decommissioning Financing Plan. Docket No. 21-WCNE-103-GIE

DIRECT TESTIMONY

PREPARED BY

Adam H. Gatewood

UTILITIES DIVISION

KANSAS CORPORATION COMMISSION

December 18, 2020

1	Q.	Would you please state your name and business address?
2	A.	My name is Adam H. Gatewood. My business address is 1500 Southwest
3		Arrowhead Road, Topeka, Kansas, 66604.
4	Q.	Who is your employer and what is your title?
5	A.	I am employed in the Utilities Division of the Kansas Corporation Commission as
6		Senior Managing Financial Analyst.
7	Q.	What is your educational and professional background?
8	A.	I graduated from Washburn University with a B.A. in Economics and a Masters of
9		Business Administration. I have filed testimony on cost of capital and related
10		financial issues before the Commission in more than 120 proceedings. I have also
11		filed testimony on cost of capital issues before the Federal Energy Regulatory
12		Commission in natural gas pipeline and electric transmission dockets.
13	Q.	What issues are you testifying to in this Docket?
14	A.	My testimony addresses two issues. First, I am testifying to the escalation rates that
15		Wolf Creek Nuclear Operating Corporation ¹ (WCNOC) is proposing in connection
16		with the Decommissioning Cost Study (Cost Study). ² The escalation rates are
17		discussed in Attachment 3 of the Joint Pleading Regarding Decommissioning
18		Financing Plan (Joint Pleading). The escalation rate is necessary to inflate the
19		decommissioning cost estimate from the 2020-dollar amount to the appropriate year
20		when those costs are scheduled to be incurred.

¹ Wolf Creek Nuclear Operating Corporation is owned by Evergy Metro (f/k/a, Kansas City Power & Light Company) 47%, Evergy Kansas South (f/k/a, Kansas Gas & Electric Company) 47%, and Kansas Electric Power Cooperative, Incorporated, 6%.

² Decommissioning Cost Analysis for the Wolf Creek Generation Station prepared for the Wolf Creek Nuclear Operating Corporation, prepared by TLG Services, Inc. of Bridgewater Connecticut; August 2020. Attachment 3 of Application in 21-WCNE-103-GIE.

1		Second, I review the annual accrual amounts for Evergy Kansas Metro (EKM),
2		Evergy Kansas South (EKS), and Kansas Electric Power Cooperative (KEPCo)
3		(collectively referred to as WCNOC Owners) that appear in Attachment 4 of the
5		(conectively referred to as wervoe owners) that appear in Attachment 4 of the
4		Joint Pleading. The annual accrual is the amount each WCNOC Owner must set
5		aside in a trust to fund its share of the decommissioning costs.
6	Q.	Please summarize your findings and recommendations.
7	A.	First, with respect to the escalation rate, I agree with the escalation rates proposed
8		in Jason O. Humphry's testimony and his methodology of applying the escalation
9		rates to the decommissioning cost components. It is my recommendation that these
10		escalation rates and his methodology should be applied to the decommissioning
11		plan selected by the Commission.
12		Second, regarding the annual accruals for EKM and EKS. I found that the annual
13		accruals for both are sufficient to fund their share of the decommissioning costs
14		under the WCNOC Owners' proposed decommissioning methodology.
15		Third, regarding the annual accrual for KEPCo. I found that KEPCo needs a small
16		increase to its annual accrual to meet its obligations under the WCNOC Owners'
17		proposed decommissioning methodology.
18	Q.	Are your recommendations dependent on the decommissioning method
19		selected by the Commission?
20	A.	Mr. Humphry's escalation rates and methodology are appropriate for either of the
21		decommissioning alternatives presented in the Cost Study. My recommendations
22		for the WNOC Owners' annual accruals is based on the DECON methodology and
23		the specific cash flows detailed in Table 3.1 of the Cost Study; the methodology

1		proposed by the WNOC Owners and supported by Staff witness Leo Haynos. My
2		recommendation on the annual accruals for EKM, EKS, KEPCo are specific to the
3		DECON methodology. If the Commission adopts a different decommissioning
4		methodology, all the parties in this docket will need to review the annual accrual
5		calculations utilizing the cash flow schedule associated with the methodology the
6		Commission selects.
7		In past triennial reviews, the decommissioning methodology has been reviewed and
8		selected by the Commission in one docket. Then, in separate dockets, each
9		WCNOC Owner files a funding plan, sometimes as part of a rate case filing. In this
10		instance, there is sufficient information in the Application to review the funding
11		plans for each WCNOC Owner, possibly completing this triennial review without
12		additional dockets.
13	Q.	Are you sponsoring any attachments to your testimony?
14	A.	Yes, I have attached the following data request responses to my testimony; DR-16
15		(EKS and EKM update to Schedule B), and DR-17 (KEPCo update to Schedule B).
16		These data requests asked each of the WCNOC Owners to update the market values
17		of their nuclear decommissioning trusts to September 30, 2020.
18	Q.	What documents did you review in preparing your testimony?
19	A.	I reviewed the Joint Pleading including the Cost Study, the Direct Testimony of
20		Jason O. Humphrey, data request responses in this Docket, and various documents
21		from the previous decommissioning dockets.
22	Escal	ation Rates Applied to Decommissioning Costs
23	Q.	What is the purpose of the escalation rates in this Docket?

A. The Cost Study presents the estimated cost of decommissioning in 2020-dollars.
 The decommissioning process begins in the year 2045 and continues over several
 decades. The escalation rates are necessary to inflate the 2020-dollar costs to the
 years in the future when they occur. Those inflated-costs are inputs to calculate the
 annual accrual for each owner.

6 Q. Please discuss the escalation rates proposed by the WCNOC Owners.

7 A. The Direct Testimony of Jason O. Humprhey (Attachment 3 of the Joint Pleading) 8 presents long-run inflation forecasts for the decommissioning cost-categories of 9 labor, equipment & materials, energy, burial costs, and a broad category to capture 10 other costs. He obtained the inflation forecasts for four of these five cost categories 11 from Moody's Analytics. As there is no commercially available inflation forecast 12 for the burial costs, which is the disposal-cost of low-level radioactive waste, Mr. 13 Humphrey relied on historic data on burial costs to form an inflation forecast for 14 this cost category.³

15 **Q.**

Q. Do you agree with the forecasts?

A. Yes, the forecasts are acceptable to Staff; they are from reputable sources and
specific to the cost-categories associated with the decommissioning process. These
are the same sources that we have relied on in past decommissioning cost studies.
I recommend that the Commission adopt the inflation forecasts in Mr. Humphrey's
testimony.

21 Q. How did he apply the escalation rates to the 2020-dollar cost estimates?

A. Mr. Humphrey applied the escalation rate of each cost-category, specifically to the

³ NUREG-1307 (Revisions 11 and 16); "Report on Waste Burial Charges," Nuclear Regulatory Commission.

1		costs in that category. In triennial decommissioning cost estimate dockets prior to
2		2017, the escalation rates were not applied to their unique category costs, instead
3		the <i>average</i> of those five escalation rates was applied to each of the cost categories.
4		That approach was sufficient when the entire decommissioning process would be
5		completed in eight years, as was expected in decommissioning triennial reviews
6		prior to 2017. Under the Cost Study, decommissioning will take more than 30 years
7		to complete. This longer horizon and timing of resources demands a more granular
8		application of the escalation rates such as that Mr. Humphry has advocated for in
9		his testimony.
10	Q.	Does Staff agree with this approach?
11	A.	Yes, Staff agrees with Mr. Humphrey's methodology. It is the same methodology
12		that Staff applied in the 18-WCNE-107-GIE, 18-WSEE-328-RTS, 18-KCPE-480-
13		RTS, and 19-KEPE-460-MIS dockets. Each of these dockets was directly related
14		to the previous triennial decommissioning cost study. In those dockets, the
15		Commission adopted funding levels that relied on Staff's approach to applying the
16		escalation rates.
17	Q.	Did you review Mr. Humphrey's workpapers where he applies the escalation
18		rates to the DECON Alternative decommissioning cost estimate?
19	A.	Yes, I traced the calculations through his work papers and I reached the same results
20		as Mr. Humphrey.
21	<u>Settin</u>	ng the Annual Accrual to Fund the Nuclear Decommissioning Trusts
22	Q.	What is the annual accrual?

23 A. The annual accrual is the amount that each owner needs to deposit in their

respective nuclear decommissioning trust (NDT) each year to fund their respective
 share of decommissioning WCNOC. The calculation takes in to account the timing
 of the cash inflows, cash outflows, and returns earned on the balance.

4 Q. What information is necessary to determine each owners' annual accrual?

A. The calculation requires a handful of inputs: 1) a decommissioning cost estimate
with a schedule of annual cash flows; and 2) an escalation rate to inflate the
decommissioning cost estimate from 2020-dollars to the year the cost will be
incurred. Then, several inputs specific to each of the WCNOC Owners: 1) its
ownership interest in Wolf Creek; 2) the Kansas jurisdictional allocation for EKM;
3) the current balance of their respective NDTs; and 3) an estimate of the returns
earned by their NDTs. The Joint Pleading contains all of these inputs.

12

Q. Are these inputs difficult to determine?

13 For the most part, no. The decommissioning methodology and escalation rates are A. 14 set by the Commission in this docket. The split of Wolf Creek ownership has been 15 and will continue to be static over the operating life of the plant with EKS owning 47%, EKM 47%, and KEPCo 6%. For EKM, the portion allocated to Kansas is the 16 17 product of its system average peak demand experienced in its Kansas jurisdiction 18 using the 12-CP approach. The portfolio market value balances for each owner at 19 September 30, 2020, are in their respective calculations in Attachments AHG-1 and 20 AHG-2. Last of all, the expected return on each owner's respective NDT. This 21 input is certainly the most subjective of the inputs because returns on financial 22 assets such as stocks and bonds vary widely over time and expectations for the 23 future can vary widely across sophisticated, competent forecasters.

Q. How does Staff's analysis address the subjectivity associated with the expected returns?

A. It has been Staff's position that an appropriate expected return should fall within
the range of returns achieved over time and those forecasted to be likely in the
future by sophisticated, experienced asset managers.

6 Q. How did you establish a range for the expected returns?

A. I reviewed historic return data and forecasted market returns published by money
management firms. As has been the case for the past two decades, the historic
returns are significantly higher than the returns forecasted by money management
firms. The wide difference between forecasted and historic returns on common
equity are obvious in the following table.

U.S. 10-Year Corporate							
	Equities	Treas. Bond	Bonds				
Survey of Forecast	ted Returns						
J.P. Morgan Long-Term Market Assumptions 2021	5.13%	1.54%	2.60%				
BlackRock Capital Market Assuptions	6.80%	1.00%	2.50%				
Survey of Professional Forecasters	6.17%	2.81%	n/a				
	A A 1	D (1 0)	D 500 T 1				
Published by the Philadelphia Federal Reserve Bank, for Next Ten Years; Average of 19 Forecasts for equit U.S. 10-Year Treasury bond yield	U		&P 500 Index				
	ies and 24 forec		&P 500 Index				
for Next Ten Years; Average of 19 Forecasts for equit U.S. 10-Year Treasury bond yield	ies and 24 forec						
for Next Ten Years; Average of 19 Forecasts for equit U.S. 10-Year Treasury bond yield Historic Ret	ies and 24 forec	asts for	7.22%				
for Next Ten Years; Average of 19 Forecasts for equit U.S. 10-Year Treasury bond yield Historic Ref 1928-2019	turns 11.57%	asts for 5.15%	2 500 Index 7.22% 9.46% 7.23%				
for Next Ten Years; Average of 19 Forecasts for equit U.S. 10-Year Treasury bond yield Historic Ret 1928-2019 1970-2019	ies and 24 forec turns 11.57% 11.89%	asts for 5.15% 7.39%	7.22% 9.46%				
for Next Ten Years; Average of 19 Forecasts for equit U.S. 10-Year Treasury bond yield Historic Ret 1928-2019 1970-2019 2010-2019	ies and 24 forec turns 11.57% 11.89% 14.02%	5.15% 7.39% 4.35%	7.22% 9.46% 7.23%				

12

As a means to evaluate the reasonableness of the WCNOC Owners' expected
 return, I rely on the historic measures of returns and the forecasted expected returns

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of money management firms as endpoints for a range of returns anticipated by investors. This is a reasonable means of setting the endpoints as it captures long run historic and forecasted economic growth.

4 I would be hesitant to rely on returns at the upper-end of that range, relying solely 5 on historic returns, given the near universal acceptance that U.S. and global 6 economic growth going forward will not match the levels experienced over the past 7 90 years. That being said, there are market participants that lean heavily on historic 8 data to form opinions about the future. The lower levels of economic growth 9 translate directly to lower returns on equity and fixed income investments. The 10 expected returns forecasted by money management firms encompass their views 11 for future economic growth. It is important to remind the Commission and 12 participants that we have the opportunity to review the annual accrual and inputs 13 every three years; we are not setting an expected return once and for all for 50 years. 14 As expectations change over time, we can factor those changes into the triennial 15 reviews.

16 **O**.

Q. Do the forecasted returns for EKS' and EKM's NDTs fall within this range?

A. Yes, EKS and EKM incorporate an 8.59% return on common stocks, within the range of historic and forecasted returns. Their expected return on fixed income, through a blend of corporate and government bonds, of 2.43% is also within that range. EKS and EKM relied on returns forecasted by Willis-Towers-Watson, an international company that provides risk management, insurance brokerage, and advisory services. That forecast explicitly takes into account their long-run

economic forecasts.⁴ This firm also provides Evergy pension and post-retirement
 benefits advice and valuation which demands a similar type of long-run forecasts
 of returns.

EKS and EKM continue to maintain separate trusts. Both trusts are governed by
documented investment guidelines that explain the trusts' objectives, investment
policies, and applicable regulations. The investment guidelines for EKS and EKM
are contained in Attachment 4 of the Joint Pleading.

8 Q. With respect to EKS's annual accrual, what has it requested?

9 A. Attachment 4 Schedule B of the Application for EKS indicates that it wants to
10 maintain the current annual accrual of \$5,772,700 for 2021, 2022, and 2023 then
11 increase its annual accrual to \$6,244,898 in 2024 and beyond. Thus, it appears that
12 an increase is necessary, but it wants to delay the increase until the next rate case;
13 after the rate moratorium expires.

14 Q. Does Staff agree with EKS's position?

15 No. If an increase to the annual accrual is necessary, Staff does not support delaying A. 16 it. To confirm the need for a change, I requested each of the WCNOC Owners 17 update the inputs to their respective funding calculations to reflect their NDT's 18 market value at September 30, 2020. With that update, EKS's current annual accrual of \$5,772,700 is sufficient to meet its obligation. The current contribution 19 20 results in an overage of \$2.4 million in year 2079. To achieve a zero balance in 21 that final year, the annual accrual would only decline by 0.30%. Given the long 22 time horizon and the number of variables in the calculation, I view the current

⁴ Willis Towers Watson Expected Return Estimator, U.S. Capital Market Assumptions; DR-18

1		annual accrual of \$5,772,700 an accurate estimate of the amount necessary to meet
2		EKS's obligation.
3	Q.	With respect to Evergy Metro's annual accrual, what is it requesting in the
4		Joint Application?
5	A.	Evergy Kansas Metro demonstrates (Attachment 4 Schedule B of the Application)
6		that it does not require a change in its annual accrual from the current amount of
7		\$2,036,799.
8	Q.	Does Staff agree with EKM's position?
9	A.	Yes, Staff confirmed that EKM's current annual accrual of \$2,036,766 is sufficient
10		to meet its share of the decommissioning cost. With the update to its portfolio
11		balance (Attachment AHG-1) the current annual accrual results in a \$600 thousand
12		over collection at the end decommissioning in 2079; a relatively small amount in
13		that a reduction in the annual accrual of 0.25% would zero out that overage. Given
14		the lengthy time horizon in the calculation and the number of variables involved, I
15		view the current annual accrual of \$2,036,766 an accurate estimate of the amount
16		necessary to meet EKM's obligation.
17	<u>KEP</u>	<u>CO</u>
18	Q.	Is the expected return in KEPCo's analysis within that range?
19	A.	Yes, the expected return on both equities and fixed income investments to fall
20		within the ranges discussed earlier. KEPCo based its forecasted returns on the
21		recent historic returns realized by investments held in its NDT.

		Fixed
	Equities	Income
Evergy (EKS, EKM)	8.49%	2.43%
KEPCo	6.22%	3.96%

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2 Q. Does KEPCo have an investment policy governing its NDT?

3 Yes, it is in Attachment 4 of the Joint Pleading; KEPCo's policy statement sets out A. 4 objectives. investment guidelines, responsibilities, and restrictions on 5 disbursements. The policy statement sets out goals, with limitations, that are 6 consistent with a conservative-growth strategy; managing investments for growth 7 over a long time horizon while conserving principal using a diversified portfolio of 8 equity and fixed income investments.

9 Q. With respect to KEPCo, what is your recommendation?

A. KEPCo provided an update to its annual accrual calculation based on the September
30, 2020, market value of its trust (Attachment AHG-2). That update, indicates a
need for a small increase to its annual accrual to \$550,196 from its current level of
\$543,994. I recommend that the Commission instruct KEPCo to increase its annual
accrual to \$550,196.

15 Q. Does this conclude your testimony?

16 A. Yes, it does.

Evergy Kansas Metro Case Name: 2020 Wolf Creek Decommissioning Financing Plan Case Number: 21-WCNE-103-GIE

Response to Gatewood Adam Interrogatories - KCC_20201029 Date of Response: 11/9/2020

Question:16

For Evergy Kansas South and Evergy Kansas Metro provide updated versions of their Schedule B of Attachment 4 to the

Application that incorporate NDT balance as of 9/30/2020. Include any other updates to inputs that Evergy believes should be made with an update to the NDT balances. Include in the response an Excel spreadsheet with formulas.

Response:

As requested, asset values have been updated to 09/30/2020 and the attached files represent updated assumptions.

Response Provided by Cole Bakalar, Corporate Treasury

Attachments: Q16_DECON - Evergy NDT Cost Modeling_KCC Copy_9.30.20.xlsx Q16_Kansas Attachments 4_9.30.20.pdf

Schedule B Evergy Kansas South 2020 Funding Analysis

DECOMMISSIONING TRUST FUND EARNINGS ASSUMPTIONS

TRUST FUND MANAGEMENT FEE					
Kansas Avg Fund Balance	\$	463,188,727			
Kansas Annual Fixed Fee		46,319			
Fixed Fee %		0.01%			
FI Fee and Fixed Fee%		0.46%			
Equity Fee and Fixed Fee		0.46%			
Real Estate Fee and Fixed Fee		1.26%			

Г	US	Fixed	Real	High	Inter-	Small	Lrg Corp	Weighte After-Ta
	T-Bills	Income	Estate	Yield	national	Stocks	Stocks	Earning
Pre-tax Returns	2.04%	2.43%	5.91%	4.54%	8.91%	8.75%	8.49%	
Effective Tax Rate	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	
Earnings After Fees & Taxes	1.27%	1.58%	3.72%	3.27%	6.76%	6.64%	6.43%	i
Year				tment Mix				i.
2020	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	V 4
2020	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2022	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2023	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2024	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2025	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2026	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2027	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2028	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2029	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2030	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2031	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2032	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2033 2034	0.0% 0.0%	25.0% 25.0%	5.0% 5.0%	14.0% 14.0%	20.0% 20.0%	7.0% 7.0%	29.0% 29.0%	4
2034 2035	0.0%	25.0% 25.0%	5.0% 5.0%	14.0% 14.0%	20.0%	7.0%	29.0%	4
2035	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2037	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2038	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2039	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2040	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2041	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2042	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2043	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2044	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2045	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2046	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2047	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2048 2049	0.0% 0.0%	25.0% 25.0%	5.0% 5.0%	14.0% 14.0%	20.0% 20.0%	7.0% 7.0%	29.0% 29.0%	4
2050	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2050	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2052	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2053	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2054	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2055	0.0%	25.0%	5.0%	14.0%	20.0%	7.0%	29.0%	4
2056	2.0%	27.1%	4.7%	14.0%	18.7%	6.5%	27.1%	4
2057	4.0%	29.1%	4.3%	14.0%	17.3%	6.1%	25.1%	4
2058	6.0%	31.2%	4.0%	14.0%	16.0%	5.6%	23.2%	4
2059	8.0%	33.3%	3.7%	14.0%	14.7%	5.1%	21.3%	3
2060	10.0%	35.3%	3.3%	14.0%	13.3%	4.7%	19.3%	3
2061 2062	12.0% 14.0%	37.4% 39.5%	3.0% 2.7%	14.0% 14.0%	12.0% 10.7%	4.2% 3.7%	17.4% 15.5%	3
2062	14.0% 16.0%	39.5% 41.5%	2.7%	14.0% 14.0%	9.3%	3.7%	15.5%	3
2064	18.0%	43.6%	2.3%	14.0%	9.3 <i>%</i> 8.0%	2.8%	11.6%	2
2065	20.0%	45.7%	1.7%	14.0%	6.7%	2.3%	9.7%	2
2066	22.0%	47.7%	1.3%	14.0%	5.3%	1.9%	7.7%	2
2067	24.0%	49.8%	1.0%	14.0%	4.0%	1.4%	5.8%	2
2068	26.0%	51.9%	0.7%	14.0%	2.7%	0.9%	3.9%	2
2069	28.0%	53.9%	0.3%	14.0%	1.3%	0.5%	1.9%	1
2070	30.0%	56.0%	0.0%	1 4.0%	0.0%	0.0%	0.0%	1
2071	37.8%	49.8%	0.0%	12.4%	0.0%	0.0%	0.0%	1
2072	45.6%	43.6%	0.0%	10.9%	0.0%	0.0%	0.0%	1
2073	53.3%	37.3%	0.0%	9.3%	0.0%	0.0%	0.0%	1
2074	61.1%	31.1%	0.0%	7.8%	0.0%	0.0%	0.0%	1
2075	68.9% 76.7%	24.9% 18.7%	0.0%	6.2% 4.7%	0.0%	0.0%	0.0%	1
2076 2077	76.7% 84.4%	18.7% 12.4%	0.0% 0.0%	4.7% 3.1%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	1
2077	84.4% 92.2%	6.2%	0.0%	1.6%	0.0%	0.0%	0.0%	1
					0.070	0.070	0.0/0	

Schedule B

Evergy Kansas South 2020 Funding Analysis

DECOMMISSIONING TRUST FUND CASH FLOWS

0.00%

NET AFTER-TAX MARKET VALUE					
September 30, 2020 Market Value	279,109,403				
2020 Remaining Deposits	1,443,175				
Market Value Incl Remaining Deposit		280,552,578			
Unrealized Net Gain	33,399,987				
Effective Tax Rate	20.00%				
Tax on Unrealized Net Gain		6,679,997			
Net After-Tax Market Value		273,872,581			

Annual Accrual Escalation

Contribution

5,772,700.00

\$

	Trust	Trust	Earnings	Trust
	Fund	Fund	After Fees	Fund
Year	Contribution	Expenditure	& Taxes	Balance
2020		\$-		\$ 273,872,581
2020	\$ 5,772,700	\$ - \$	\$ 13,028,852	\$ 273,872,581 \$ 292,674,133
2021	\$ 5,772,700	\$- \$-	\$ 13,916,278	\$ 312,363,111
2022	\$ 5,772,700	\$-	\$ 14,845,590	\$ 332,981,401
2023	\$ 5,772,700	\$-	\$ 15,818,765	\$ 354,572,865
2025	\$ 5,772,700	\$-	\$ 16,837,873	\$ 377,183,439
2026	\$ 5,772,700	\$ -	\$ 17,905,083	\$ 400,861,222
2027	\$ 5,772,700	\$ -	\$ 19,022,665	\$ 425,656,587
2028	\$ 5,772,700	\$ -	\$ 20,192,997	\$ 451,622,284
2029	\$ 5,772,700	\$-	\$ 21,418,567	\$ 478,813,551
2030	\$ 5,772,700	\$-	\$ 22,701,984	\$ 507,288,235
2031	\$ 5,772,700	\$-	\$ 24,045,978	\$ 537,106,913
2032	\$ 5,772,700	\$-	\$ 25,453,407	\$ 568,333,020
2033	\$ 5,772,700	\$-	\$ 26,927,267	\$ 601,032,987
2034	\$ 5,772,700	\$ -	\$ 28,470,693	\$ 635,276,380
2035	\$ 5,772,700	\$ -	\$ 30,086,967	\$ 671,136,047
2036	\$ 5,772,700	\$ -	\$ 31,779,529	\$ 708,688,276
2037	\$ 5,772,700	\$ -	\$ 33,551,979	\$ 748,012,955
2038	\$ 5,772,700	\$ -	\$ 35,408,088	\$ 789,193,743
2039	\$ 5,772,700	\$-	\$ 37,351,805	\$ 832,318,248
2040	\$ 5,772,700	\$-	\$ 39,387,264	\$ 877,478,212
2041	\$ 5,772,700	\$ -	\$ 41,518,797	\$ 924,769,709
2042	\$ 5,772,700 \$ 5,772,700	\$ -	\$ 43,750,936 \$ 40,000,422	\$ 974,293,345
2043	\$ 5,772,700 \$ 5,772,700	\$ -	\$ 46,088,432 \$ 40,530,357	\$ 1,026,154,477
2044 2045	\$ 5,772,700 \$ 1,443,175	\$ - \$ (79,415,919)	\$ 48,536,257 \$ 49,617,336	\$ 1,080,463,434 \$ 1,052,108,026
2045	\$ 1,443,175 \$ -	\$ (173,794,459)	\$ 49,617,336 \$ 46,582,942	\$ 1,052,108,026 \$ 924,896,509
2040	\$- \$-	\$ (230,772,225)	\$ 40,502,542 \$ 39,570,111	\$ 733,694,395
2048	\$-	\$ (238,078,089)	\$ 30,416,136	\$ 526,032,441
2049	š -	\$ (120,222,668)	\$ 22,700,598	\$ 428,510,371
2050	\$ -	\$ (52,309,973)		\$ 395,500,037
2051	\$-	\$ (49,686,576)		\$ 363,601,460
2052	\$ -	\$ (17,608,633)		\$ 362,843,000
2053	\$ -	\$ (12,755,316)		\$ 366,987,962
2054	\$ -	\$ (13,151,253)		\$ 370,925,619
2055	\$-	\$ (13,832,424)	\$ 17,262,709	\$ 374,355,904
2056	\$-	\$ (14,018,014)	\$ 16,683,813	\$ 377,021,703
2057	\$ -	\$ (14,416,112)	\$ 16,055,015	\$ 378,660,607
2058	\$ -	\$ (15,157,500)	\$ 15,368,543	\$ 378,871,649
2059	\$-	\$ (15,327,787)	\$ 14,629,047	\$ 378,172,910
2060	\$-	\$ (15,847,117)	\$ 13,850,241	\$ 376,176,033
2061	s -	\$ (16,612,760)		\$ 372,589,317
2062	\$ -	\$ (16,807,045)	\$ 12,165,289	\$ 367,947,561
2063	\$ -	\$ (17,331,885)		\$ 361,898,032
2064	\$ -	\$ (18,258,355)	\$ 10,373,231	\$ 354,012,909
2065	\$ -	\$ (18,432,324) \$ (10,000,025)	\$ 9,447,389 \$ 9,521,774	\$ 345,027,974
2066	\$ -	\$ (19,009,025) \$ (10,067,280)	\$ 8,521,774 \$ 7,504,720	\$ 334,540,722
2067	\$ -	\$ (19,967,289) \$ (20,271,641)		\$ 322,168,153 \$ 208,572,716
2068	\$ - \$ -	\$ (20,271,641) \$ (21,233,278)		\$ 308,572,716 \$ 293,118,778
2069 2070		\$ (21,233,278) \$ (20,724,867)		\$ 293,118,778 \$ 277,309,640
2070	\$ - \$ -	\$ (21,380,522)		\$ 260,432,206
2071	\$- \$-	\$ (22,117,694)		\$ 242,403,363
2072	\$- \$-	\$ (22,755,776)		\$ 223,322,027
2074	\$ -	\$ (23,476,770)		\$ 203,107,269
2075	\$-	\$ (24,220,979)		\$ 181,738,638
2076	\$-	\$ (25,057,624)		\$ 159,127,535
2077	\$-	\$ (25,782,096)		\$ 135,391,609
2078	\$ -	\$ (61,201,430)		\$ 75,672,742
2079	\$ -	\$ (73,844,495)	. , ,	\$ 2,436,647
L		,		

Schedule B

2020 Evergy Kansas Metro Funding Analysis

DECOMMISSIONING TRUST FUND EARNINGS ASSUMPTIONS

		_		
TRUST FUND MANAGEMENT FEE				
Kansas Avg Fund Balance	\$	213,344,388		
Kansas Annual Fixed Trustee Fee		51,326		
Fixed Trustee Fee %		0.0241%		
FI Fee and Fixed Trustee Fee%		0.2351%		
Equity Fee and Fixed Trustee Fee		0.1047%		

					Г	Weighted
1	US	Fixed	Inter-	Small	Lrg Corp	After-Tax
	T-Bills	Income	national	Stocks	Stocks	Earnings
Pre-tax Returns	2.04%	2.43%	8.91%	8.75%	8.49%	
Effective Tax Rate	20.0%	20.0%	20.0%	20.0%	20.0%	i
Earnings After Fees & Taxes	1.44%	1.76%	7.04%	6.92%	6.71%	i
Year		Inve	estment Mix			
2020	0.0%	30.0%	16.0%	20.0%	34.0%	V 5.32
2020	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2022	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2023	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2024	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2025	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2026 2027	0.0% 0.0%	30.0%	16.0%	20.0%	34.0% 34.0%	5.32 5.32
2027	0.0%	30.0% 30.0%	16.0% 16.0%	20.0% 20.0%	34.0%	5.32
2029	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2030	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2031	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2032	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2033	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2034	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2035 2036	0.0% 0.0%	30.0% 30.0%	16.0% 16.0%	20.0% 20.0%	34.0% 34.0%	5.32 5.32
2030	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2038	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2039	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2040	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2041	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2042	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2043 2044	0.0% 0.0%	30.0% 30.0%	16.0% 16.0%	20.0% 20.0%	34.0% 34.0%	5.32 5.32
2044	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2046	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2047	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2048	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2049	0.0%	30.0%	16.0%	20.0%	34.0%	5.32
2050 2051	0.0% 0.0%	30.0% 30.0%	16.0% 16.0%	20.0% 20.0%	34.0% 34.0%	5.32 5.32
2052	3.3%	34.4%	14.2%	17.8%	30.2%	4.9
2053	6.7%	38.9%	12.4%	15.6%	26.4%	4.5
2054	10.0%	43.3%	10.7%	13.3%	22.7%	4.10
2055	13.3%	47.8%	8.9%	11.1%	18.9%	3.69
2056	16.7%	52.2%	7.1%	8.9%	15.1%	3.29
2057	20.0%	56.7%	5.3%	6.7%	11.3%	2.8
2058 2059	23.3% 26.7%	61.1% 65.6%	3.6% 1.8%	4.4% 2.2%	7.6% 3.8%	2.4
2060	30.0%	70.0%	0.0%	0.0%	0.0%	1.66
2061	33.7%	66.3%	0.0%	0.0%	0.0%	1.65
2062	37.4%	62.6%	0.0%	0.0%	0.0%	1.64
2063	41.1%	58.9%	0.0%	0.0%	0.0%	1.63
2064	44.7%	55.3%	0.0%	0.0%	0.0%	1.62
2065 2066	48.4% 52.1%	51.6% 47.9%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	1.60 1.59
2000	55.8%	44.2%	0.0%	0.0%	0.0%	1.58
2068	59.5%	40.5%	0.0%	0.0%	0.0%	1.57
2069	63.2%	36.8%	0.0%	0.0%	0.0%	1.56
2070	66.8%	33.2%	0.0%	0.0%	0.0%	1.55
2071	70.5%	29.5%	0.0%	0.0%	0.0%	1.54
2072	74.2%	25.8%	0.0%	0.0%	0.0%	1.52
2073	77.9%	22.1%	0.0%	0.0%	0.0%	1.5
2074 2075	81.6% 85.3%	18.4% 14.7%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	1.50 1.49
2075	88.9%	14.7 %	0.0%	0.0%	0.0%	1.48
2077	92.6%	7.4%	0.0%	0.0%	0.0%	1.47
2078	96.3%	3.7%	0.0%	0.0%	0.0%	1.46
2079	1 00.0%	0.0%	0.0%	0.0%	0.0%	1.44

Schedule B

2020 Evergy Kansas Metro Funding Analysis

0.00%

DECOMMISSIONING TRUST FUND CASH FLOWS								
NET AFTER-TAX MAR								
September 30, 2020 Market Value	123,025,769							
2020 Remaining Deposits	509,058							
Market Value Incl Remaining Deposit	123,534,826							
Unrealized Net Gain	41,456,737							
Effective Tax Rate	20.00%							
Tax on Unrealized Net Gain	8,291,347							
Net After-Tax Market Value	115,243,479							

Annual Accrual Escalation

Contribution \$

2,036,766.00

	Trust			Trust Earnings				Trust		
	Fund			Fund		After Fees		Fund		
Year	Contribution			Expenditure		& Taxes		Balance		
2020			\$	-			\$	115,243,479		
2021		2,036,766	\$	-	\$	6,169,155	\$	123,449,400		
2022		2,036,766	\$	-	\$	6,605,538	\$	132,091,704		
2023	\$ 2	2,036,766	\$	-	\$	7,065,127	\$	141,193,597		
2024		2,036,766	\$	-	\$	7,549,157	\$	150,779,521		
2025	\$ 2	2,036,766	\$	-	\$	8,058,928	\$	160,875,214		
2026		2,036,766	\$	-	\$	8,595,807	\$	171,507,787		
2027		2,036,766	\$	-	\$	9,161,237	\$	182,705,790		
2028		2,036,766	\$	_	\$	9,756,736	\$	194,499,292		
2029		2,036,766	\$	-	\$	10,383,903	\$	206,919,961		
2030		2,036,766	\$		\$	11,044,422	\$	220,001,150		
2031		2,036,766	\$	-	\$	11,740,067	\$	233,777,983		
2031		2,036,766	\$	_	\$	12,472,706	\$	248,287,455		
				-	φ \$		ф \$			
2033		2,036,766	\$	-	φ Φ	13,244,306		263,568,527		
2034		2,036,766	\$		\$	14,056,939	\$	279,662,232		
2035		2,036,766	\$	-	\$	14,912,786	\$	296,611,784		
2036		2,036,766	\$	-	\$	15,814,147	\$	314,462,698		
2037		2,036,766	\$	-	\$	16,763,442	\$	333,262,906		
2038		2,036,766	\$	-	\$	17,763,219	\$	353,062,891		
2039		2,036,766	\$	-	\$	18,816,163	\$	373,915,820		
2040		2,036,766	\$	-	\$	19,925,102	\$	395,877,687		
2041		2,036,766	\$	-	\$	21,093,013	\$	419,007,466		
2042		2,036,766	\$	-	\$	22,323,032	\$	443,367,265		
2043	\$ 2	2,036,766	\$	-	\$	23,618,463	\$	469,022,494		
2044	\$ 2	2,036,766	\$	-	\$	24,982,783	\$	496,042,043		
2045	\$	509,192	\$	(36,014,359)	\$	25,670,991	\$	486,207,866		
2046	\$	-	\$	(78,814,124)	\$	24,284,345	\$	431,678,087		
2047	\$	-	\$	(104,652,996)		20,869,222	\$	347,894,313		
2048	\$	-	\$	(107,966,135)		16,347,610	\$	256,275,787		
2049	\$	-	\$	(54,519,830)		12,541,258	\$	214,297,216		
2050	\$	-	\$	(23,722,072)		10,923,051	\$	201,498,195		
2051	\$	-	\$	(22,532,387)	\$	10,266,137	\$	189,231,945		
2052	\$	-	\$	(7,985,347)	\$	9,147,476	\$	190,394,074		
2053	\$	-	\$	(5,784,414)	\$	8,480,572	\$	193,090,232		
2054	\$	-	\$	(5,963,967)	\$	7,823,813	\$	194,950,078		
2055	\$	-	\$	(6,272,872)	\$	7,113,020	\$	195,790,226		
2056	\$	_	\$	(6,357,035)		6,357,313	\$	195,790,504		
2057	\$	_	\$	(6,537,569)	\$	5,569,800	\$	194,822,735		
2058	\$	_	\$		\$	4,757,435	\$			
2059	\$	-	ф \$	(6,873,781)		3,932,206	э \$	192,706,389		
	\$ \$	-	ъ \$	(6,951,005)	э \$		э \$	189,687,590		
2060	\$ \$	-	φ Φ	(7,186,516)		3,108,416	ъ \$	185,609,490		
2061		-	\$ \$	(7,533,728)	\$ ¢	3,017,450	ъ \$	181,093,212		
2062	\$	-	¢	(7,621,834)	\$	2,921,861		176,393,239		
2063	\$	-	\$	(7,859,844)		2,823,413	\$	171,356,808		
2064	\$	-	\$	(8,279,989)		2,719,523	\$	165,796,342		
2065	\$	-	\$	(8,358,883)	\$	2,610,471	\$	160,047,931		
2066	\$	-	\$	(8,620,411)	\$	2,498,619	\$	153,926,138		
2067	\$	-	\$	(9,054,974)	\$	2,381,177	\$	147,252,341		
2068	\$	-	\$	(9,192,995)	\$	2,258,259	\$	140,317,605		
2069	\$	-	\$	(9,629,089)	\$	2,131,076	\$	132,819,592		
2070	\$	-	\$	(9,398,529)		2,000,678	\$	125,421,741		
2071	\$	-	\$	(9,695,862)		1,870,481	\$	117,596,360		
2072	\$	-	\$	(10,030,162)		1,735,282	\$	109,301,480		
2073	\$	-	\$	(10,319,526)		1,595,063	\$	100,577,017		
2074	\$	-	\$	(10,646,491)	\$	1,450,115	\$	91,380,641		
2075	\$	-	\$	(10,983,982)	\$	1,300,110	\$	81,696,769		
2076	\$	-	\$	(11,363,393)	\$	1,144,810	\$	71,478,186		
2077	\$	-	\$	(11,691,934)	\$	984,204	\$	60,770,456		
2078	\$	-	\$	(27,754,263)		732,985	\$	33,749,178		
2079	\$	-	\$	(33,487,772)		305,985	\$	567,391		
L										

Kansas Corporation Commission

Information Request

Request No: 17

Company Name	WOLF CREEK NUCLEAR OPERATING CORPORATION	WCNE						
Docket Number	21-WCNE-103-GIE							
Request Date	October 29, 2020							
Date Information Needed	November 9, 2020							
RE: Estimate of KEPCo's Annual Accrual								

Please Provide the Following:

Provide an estimate of KEPCo's annual accrual incorporating the 9/30/20 balance of its nuclear decommissioning trust and the schedule of cash flows shown in Exhibit B of KEPCo's September 2, 2020 Late Filed Exhibit in this docket. Include in the response an Excel spreadsheet with formulas.

Submitted By Gatewood

Submitted To KEPCo

Please see attached file Docket 21-WCNE-103-GIE_Staff DR 17_2020 KCC Schedule.xlsx for KEPCo's response. Also attached is the same file in pdf format.

If for some reason, the above information cannot be provided by the date requested, please provide a written explanation of those reasons.

Verification of Response

I have read the foregoing Information Request and answer(s) thereto and find answer(s) to be true, accurate, full and complete and contain no material misrepresentations or omissions to the best of my knowledge and belief; and I will disclose to the Commission Staff any matter subsequently discovered which affects the accuracy or completeness of the answer(s) to this Information Request.

Rebecca A. Fouler Signed:

Date: <u>11/24/2020</u>

Kansas Electric Power Cooperative Inc. Estimate for Decommissioning Fund Contributions DECON ALT

KCC Stipulated and Fixed Amo	ounts
Total Cost DECON ALT Method in 2020 \$s	\$1,073,642,247
Estimated KEPCo Cost in 2020 \$s	\$64,418,535
Forecasted Rate of Inflation	3.25%
Remaining Years in Service	24
Total KEPCo Cost of Decommissioning	\$199,771,905
Market Value of Portfolio @ 09/30/2020	\$32,163,880
Remaining \$s To Be Collected	\$167,608,025
KEPCo Variables	
Forecasted Return on Portfolio	Table Below
Annual Payment	\$550,196
Amount of Excess/Shortfall	0

		Annual	Annua	.1	Annual				Annual
Time	Year	Inflow	Outfloy	W		Earnings		Balance	Return
1	2020 \$	-	\$	-	\$	-	\$	32,299,885	0.00%
2	2021 \$	550,196	\$	-	\$	1,679,594	\$	34,497,375	5.20%
3	2022 \$	550,196	\$	-	\$	1,793,864	\$	36,806,938	5.20%
4	2023 \$	550,196	\$	-	\$	1,913,961	\$	39,234,288	5.20%
5	2024 \$	550,196	\$	-	\$	1,911,614	\$	41,656,864	5.20%
6	2025 \$	550,196	\$	-	\$	2,166,157	\$	44,331,560	5.20%
7	2026 \$	550,196	\$	-	\$	2,305,241	\$	47,142,666	5.20%
8	2027 \$	550,196	\$	-	\$	2,451,419	\$	50,097,138	5.20%
9	2028 \$	550,196	\$	-	\$	2,605,051	\$	53,202,288	5.20%
10	2029 \$	550,196	\$	-	\$	2,766,519	\$	56,465,801	5.20%
11	2030 \$	550,196	\$	-	\$	2,936,222	\$	59,895,753	5.20%
12	2031 \$	550,196	\$	-	\$	3,114,579	\$	63,500,633	5.20%
13	2032 \$	550,196	\$	-	\$	3,302,033	\$	67,289,361	5.20%
14	2033 \$	550,196	\$	-	\$	3,499,047	\$	71,271,315	5.20%
15	2034 \$	550,196	\$	-	\$	3,706,108	\$	75,456,348	5.20%
16	2035 \$	550,196	\$	-	\$	3,923,730	\$	79,854,818	5.20%
17	2036 \$	550,196	\$	-	\$	4,152,451	\$	84,477,610	5.20%
18	2037 \$	550,196	\$	-	\$	4,392,836	\$	89,336,165	5.20%
19	2038 \$	550,196	\$	-	\$	4,645,481	\$	94,442,505	5.20%
20	2039 \$	550,196	\$	-	\$	4,911,010	\$	99,809,269	5.20%
21	2040 \$	550,196	\$	-	\$	5,190,082	\$	105,449,738	5.20%

Attachment AHG - 2 21-WCNE-103-GIE

22	2041	\$ 550,196	\$ -	\$ 5,483,386	\$ 111,377,871	5.20%
23	2042	\$ 550,196	\$ -	\$ 5,791,649	\$ 117,608,339	5.20%
24	2043	\$ 550,196	\$ -	\$ 6,115,634	\$ 124,156,560	5.20%
 25	2044	\$ 550,196	\$ 	\$ 6,456,141	\$ 131,038,741	5.20%
 26	2045	\$ -	\$ (10,138,202)	\$ 6,814,015	\$ 127,583,514	5.20%
27	2046	\$ -	\$ (22,186,527)	\$ 6,634,343	\$ 111,903,747	5.20%
28	2047	\$ -	\$ (29,460,284)	\$ 5,818,995	\$ 88,150,554	5.20%
29	2048	\$ -	\$ (30,392,948)	\$ 4,583,829	\$ 62,253,284	5.20%
30	2049	\$ -	\$ (15,347,575)	\$ 3,237,171	\$ 50,080,627	5.20%
31	2050	\$ -	\$ (6,677,869)	\$ 2,604,193	\$ 45,956,870	5.20%
32	2051	\$ -	\$ (6,342,967)	\$ 2,389,757	\$ 41,957,704	5.20%
33	2052	\$ -	\$ (2,247,911)	\$ 2,181,801	\$ 41,849,636	5.20%
34	2053	\$ -	\$ (1,628,338)	\$ 2,176,181	\$ 42,355,629	5.20%
35	2054	\$ -	\$ (1,678,883)	\$ 2,202,493	\$ 42,836,883	5.20%
36	2055	\$ -	\$ (1,765,841)	\$ 2,227,518	\$ 43,255,723	5.20%
37	2056	\$ -	\$ (1,789,534)	\$ 2,249,298	\$ 43,672,231	5.20%
38	2057	\$ -	\$ (1,840,355)	\$ 2,270,956	\$ 44,059,160	5.20%
39	2058	\$ -	\$ (1,935,000)	\$ 2,291,076	\$ 44,371,177	5.20%
40	2059	\$ -	\$ (1,956,739)	\$ 1,974,517	\$ 44,344,584	4.45%
41	2060	\$ -	\$ (2,023,036)	\$ 1,973,334	\$ 44,250,538	4.45%
42	2061	\$ -	\$ (2,120,778)	\$ 1,969,149	\$ 44,054,658	4.45%
43	2062	\$ -	\$ (2,145,580)	\$ 1,960,432	\$ 43,825,455	4.45%
44	2063	\$ -	\$ (2,212,581)	\$ 1,950,233	\$ 43,519,282	4.45%
45	2064	\$ -	\$ (2,330,854)	\$ 1,610,213	\$ 42,755,122	3.70%
46	2065	\$ -	\$ (2,353,063)	\$ 1,581,940	\$ 41,941,244	3.70%
47	2066	\$ -	\$ (2,426,684)	\$ 1,551,826	\$ 41,024,445	3.70%
48	2067	\$ -	\$ (2,549,016)	\$ 1,517,904	\$ 39,952,309	3.70%
49	2068	\$ -	\$ (2,587,869)	\$ 1,478,235	\$ 38,802,723	3.70%
50	2069	\$ -	\$ (2,710,631)	\$ 675,167	\$ 36,728,456	1.74%
51	2070	\$ -	\$ (2,645,728)	\$ 639,075	\$ 34,685,075	1.74%
52	2071	\$ -	\$ (2,729,428)	\$ 603,520	\$ 32,524,482	1.74%
53	2072	\$ -	\$ (2,823,535)	\$ 565,926	\$ 30,234,348	1.74%
54	2073	\$ -	\$ (2,904,993)	\$ 526,078	\$ 27,825,199	1.74%
55	2074	-	\$ (2,997,034)	484,158	\$ 25,284,498	1.74%
56	2075	-	\$ (3,092,040)	439,950	\$ 22,607,124	1.74%
57	2076	-	\$ (3,198,846)	393,364	\$ 19,779,035	1.74%
58	2077	-	\$ (3,291,331)	344,155	\$ 16,812,080	1.74%
59	2078	-	\$ (7,812,949)	292,530	\$ 9,274,849	1.74%
60	2079	\$ -	\$ (9,426,957)	\$ 161,382	\$ 0	1.74%

STATE OF KANSAS

COUNTY OF SHAWNEE

VERIFICATION

) ss.

Adam H. Gatewood, being duly sworn upon his oath deposes and states that he is a Senior Managing Financial Analyst for the Utilities Division of the Kansas Corporation Commission of the State of Kansas, that he has read and is familiar with the foregoing *Testimony*, and attests that the statements contained therein are true and correct to the best of his knowledge, information and belief.

Adam H. Gatewood

Adam H. Gatewood Senior Managing Financial Analyst State Corporation Commission of the State of Kansas

Subscribed and sworn to before me this 18 day of December, 2020.

Notary Pub



ANN M. MURPHY My Appointment Expires April 28, 2021

My Appointment Expires:

CERTIFICATE OF SERVICE

21-WCNE-103-GIE

I, the undersigned, certify that a true and correct copy of the above and foregoing Testimony was served electronically this 18th day of December, 2020, to the following:

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CERTIFICATE OF SERVICE

21-WCNE-103-GIE

/s/ Vicki Jacobsen Vicki Jacobsen