Exhibit No .: Issues:

Witness: Type of Exhibit: Sponsoring Party:

Case No,: Date Testimony Prepared:

Effect of Transfer on Nuclear Decommissioning Trust Kevin L. Redhage Surrebuttal Union Electric Company d/b/a AmerenUE EO-2004-0108 March 1, 2004

> FILED APR 1 6 2004 Missouri Public Invice Commission

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MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. EO-2004-0108

SURREBUTTAL TESTIMONY

OF

KEVIN L. REDHAGE

ON

BEHALF OF

UNION ELECTRIC COMPANY d/b/a AmerenUE

St. Louis, Missouri March 1, 2004

Exhibit No. Case No(s) = 0 - 20 Date 3 - 25 - 0 \ _ R 4.1 Rotr.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of the Application of Union Electric Company d/b/a AmerenUE for an Order Authorizing the Sale, Transfer an Assignment of Certain Assets, Real Estate Leased Property, Easements and Contractual Agreements to Central Illinois Public Service Company d/b/a AmerenCIPS, and in Connection Therewith, Certain Other Related Transactions.

Case No. EO-2004-0108

AFFIDAVIT OF KEVIN L. REDHAGE

STATE OF MISSOURI)) CITY OF ST. LOUIS)

Kevin L. Redhage, being first duly sworn on his oath, states:

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- 1. My name is Kevin L. Redhage. I am a Finance Professional for Ameren Services Company.
- 2. Attached hereto and made a part hereof for all purposes is my Surrebuttal Testimony consisting of 14 pages, including Schedules 1 4, all of which have been prepared in written form for introduction into evidence in the above-referenced docket.
- 3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct.

Kevin L. Redhage

Subscribed and sworn to before me this $\frac{51}{1000}$ day of March., 2004.

Notary Public

VALERIE W. WHITEHEAD Notary Public - Notary Seal STATE OF MISSOURI Jefferson County My Commission Expires: Dec. 10, 2006

1		SURREBUTTAL TESTIMONY
2		OF
3		KEVIN L. REDHAGE
4		CASE NO. EO-2004-0108
5 6	Q.	Please state your name and business address.
7	A.	My name is Kevin L. Redhage and my business address is One Ameren Plaza,
8		1901 Chouteau Avenue, P. O. Box 66149, MC 1070, St. Louis, Missouri, 63166-
9		6149.
10	Q.	By whom are you employed and in what capacity?
11	A.	I am a Finance Professional in the Financial Planning and Investments
12		Department at Ameren Services Company.
13	Q.	Are you the same Kevin L. Redhage who filed direct testimony in this
14		proceeding on September 17, 2003?
15	Α.	Yes.
16	Q.	What is the purpose of your surrebuttal testimony in this proceeding?
17	A.	The purpose of my surrebuttal testimony is to respond to the January 30, 2004
18		rebuttal testimony of Mr. Greg R. Meyer of the Staff of the Missouri Public
19		Service Commission (the "Commission" or "MPSC"). In particular, I am
20		addressing the position taken by Mr. Meyer in his rebuttal testimony that a deficit
21		in decommissioning funding will exist following the property transfer unless the
22		funding level is increased to cover the additional decommissioning cost liability
23		being transferred to Missouri ratepayers.

1		l am also addressing precisely what Union Electric Company d/b/a
2		AmerenUE ("AmerenUE" or the "Company") requires from the Commission in
3		order to contribute periodic decommissioning expense and contribution amounts
4		to the Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund (the
5		"qualified decommissioning trust fund"), should the amounts be increased as a
6		result of this proceeding.
7	Q.	Are you sponsoring any schedules?
8	Α.	Yes. I am sponsoring Schedule Numbers 1 through 4.
9	Q.	Please summarize the proposed post-property transfer decommissioning
10		funding for the Missouri jurisdiction put forth in your direct testimony.
11	Α.	In my direct testimony, I requested Commission approval to reallocate a portion
12		of the funds currently in the Illinois jurisdictional sub-account of the qualified
13		decommissioning trust fund to the Missouri jurisdictional sub-account. The
14		reallocation would be based on 12-month coincident peak demand allocation
15		factors, adjusted to exclude the Illinois demands. I also requested Commission
16		approval to continue the Missouri decommissioning expense and contribution
17		amount at its current annual level of \$6,214,184 following the property transfer.
18		Finally, I indicated that any adjustments in the level of annual contributions
19		necessary to maintain decommissioning funding adequacy will be addressed at
20		the next triennial update filing, required by September 1, 2005, and in ongoing
21		triennial update filings required every three years thereafter.
22	Q.	Did the Commission Staff agree with the proposed reallocation of the Illinois
23		jurisdictional sub-account?

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1	A.	Yes. Mr. Ronald L. Bible and Mr. Meyer both concurred with the proposed
2		reallocation of the Illinois jurisdictional sub-account in their testimony. Mr. Alan
3		J. Bax specifically concurred in his testimony with the use of 12-month coincident
4		peak demand allocation factors for performing the reallocation.
5	Q.	Did the Commission Staff agree with the Company's proposal to maintain
6		the Missouri decommissioning expense and contribution amount at its
7		current annual level of \$6,214,184 following the property transfer?
8	A.	No. Mr. Meyer states in his testimony (Page 5, Lines 20-23 and Page 6, Lines 1-
9		5), as follows:
10 11 12 13 14 15 16 17 18 19 20 21 22 23		The Staff, at this time, cannot agree to this condition. The transfer of Callaway almost totally to the Missouri retail jurisdiction, except for the very small wholesale jurisdiction piece, without a corresponding increase in the Missouri decommissioning expense accrual will mean that the total amount to decommission Callaway at the time of the transfer will be deficient by that portion that was funded by the AmerenUE Illinois retail jurisdiction. AmerenUE seeks to have the Callaway assets transferred almost totally to Missouri retail, yet requests that the funding level of UE not be changed at this time to reflect this reallocation of the Callaway decommissioning cost that is associated with the reallocation of the Callaway generation.
24		follows:
25 26 27 28 29 30	Q.	Simply stated, without a continuance of the total current funding to cover the cost of decommissioning Callaway, a deficit in that funding will occur as a result of this transfer from a level that previously was determined to be reasonable by all parties involved. Did the Commission Staff concur with the Company's position that any
31		future adjustments in the level of annual contributions necessary to maintain

1		decommissioning funding adequacy could be addressed in the next triennial
2		update filing, required by September 1, 2005 ?
3	А.	No. Mr. Meyer states as follows in his testimony (Page 6, Lines 6-14):
4		AmerenUE witness Kevin L. Redhage states in his direct
5		testimony that AmerenUE must make its next decommissioning
6		filing before this Commission by September 1, 2005. At that time,
7		if this proposed transfer has been approved by the Commission, the
8		Callaway decommissioning cost recovery responsibility will be
9		nearly 100% assigned to Missouri for the determination of the
10		proper level of decommissioning expense and its recovery from
11		Missouri ratepayers. However, in the interim period (currently
12		through the next time Callaway decommissioning expense is
13		determined to be included in AmerenUE's Missouri retail rates or
14		a change in rates is effectuated), that portion of the AmerenUE-
15		Illinois retail funding will not be considered, as no further funding
16		will occur.
17		will occur.
18	Q.	Does the Company agree with Mr. Meyer's position that decommissioning
19		funding will be deficient unless the total funding level is maintained at its
20		current level following the proposed property transfer?
21	А.	No. The calculation of an annual decommissioning expense and contribution
22		amount adequate to cover future decommissioning liabilities is sensitive to
23		varying forecasts of future decommissioning inflation and investment returns.
24		Forecasted nominal investment returns are dependent on future investment policy
25		and on forecasts of real returns on bond investments, equity premiums over and
26		above bond investment returns and on general inflation levels. Since the
27		determination of an annual decommissioning contribution can be sensitive to
28		these various factors, the Company utilizes a "Zone of Reasonableness" model
29		that computes the required annual decommissioning contribution within a
30		"reasonable" range of economic and financial parameters.

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1		This methodology computes "optimistic," "expected" and "conservative"
2		annual contribution amounts required for the future decommissioning liability to
3		be fully funded at various decommissioning inflation rates and under various
4		portfolio return assumptions. The "conservative" contribution boundary is
5		computed using conservative assumptions that would require higher contributions
6		in order for the trust to be adequately funded, such as low real rates of return on
7		bonds, low equity premiums and an earlier divestiture out of equity investments.
8		Conversely, the "optimistic" contribution level is computed using more
9		aggressive assumptions that would allow smaller contributions with the
10		decommissioning liability still being adequately funded, such as higher real rates
11		of return on bonds, higher equity premiums and a later divestiture out of equity
12		investments. Required contribution amounts based on an "expected" set of
13		assumptions, estimated to be about midway between those assumed for the
14		"optimistic" and "conservative" scenarios, are also computed. These
15		"optimistic," "expected" and "conservative" contribution levels form a "zone of
16		reasonableness" for decommissioning funding. Provided the established funding
17		level falls within the zone formed by the upper ("conservative") and lower
18		("optimistic") contribution boundaries at a projected rate of decommissioning
19		inflation, it can be concluded that funding adequacy is being achieved under a
20		reasonable set of economic and financial assumptions.
21	Q.	Does the current annual Missouri decommissioning expense and contribution

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22 of \$6,214,184 continue to be within the zone of reasonableness boundaries, as

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1		described above, following the assumption by Missouri of the additional
2		decommissioning liability associated with the property transfer?
3	A.	Yes. A zone of reasonableness analysis was performed reflecting the assumption
4		by Missouri ratepayers of a portion of the decommissioning expense formerly
5		borne by the Illinois ratepayers and incorporating the reallocation of a portion of
6		the funds currently in the Illinois jurisdictional sub-account to the Missouri sub-
7		account. With the exception of updating the beginning sub-account balance and
8		starting date of the analysis, all other input factors to the zone of reasonableness
9		analysis were held identical to those submitted in the Company's most recent
10		triennial update filing (Case No. EO-2003-0083). This analysis was submitted as
11		Schedule 3 to my direct testimony.
12	Q.	Please summarize the results of this analysis.
13	A.	The zone of reasonableness methodology was used to determine the
14		decommissioning inflation values for which the current annual funding level of
15		\$6,214,184 would continue to be adequate under the economic and financial
16		assumptions associated with "optimistic," "expected" and "conservative"
17		contribution boundaries, given the increased decommissioning cost liability that
18		Missouri ratepayers would assume following the property transfer. The
19		decommissioning inflation values were, respectfully, 4.500%, 3.854% and
20		3.312%. Thus, if the economic and financial conditions assumed for the
21		"optimistic" scenario are actually experienced, an annual contribution of
22		\$6,214,184 would be adequate up to a decommissioning inflation rate of 4.500%.
23		Should the economic and financial conditions assumed for the "conservative"

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1	scenario be experienced, an annual contribution of \$6,214,184 would be adequate
2	up to a decommissioning inflation rate of 3.312%. If the economic and financial
3	conditions assumed for the "expected" scenario are actually experienced, an
4	annual contribution of \$6,214,184 would be adequate up to a decommissioning
5	inflation rate of 3.854%.
6	At the time of the 2002 triennial update filing (Case No. EO-2003-0083),
7	a decommissioning inflation rate of 4.036% was projected. As part of the
8	analysis submitted in my direct testimony, I re-evaluated the decommissioning
9	inflation projection (using the same methodology as in the projection performed
10	in Case No. EO-2003-0083) based on the most recent data available at the current
11	time. Applying the new data resulted in a projected decommissioning inflation
12	rate of 3.472%. Since the current annual Missouri decommissioning expense and
13	contribution amount of \$6,214,184 was calculated to be adequate up to a
14	projected decommissioning inflation rate of 3.854%, it would certainly be
15	assumed to be adequate at the projected rate of 3.472%.
16	Another way of viewing the zone of reasonableness results would be to
17	consider that at an assumed decommissioning inflation rate of 4.00%, annual
18	contributions ranging from \$3,307,452 (under "optimistic" assumptions) to
19	\$10,535,758 (under "conservative" assumptions) would be required. Since the
20	current annual contribution of \$6,214,184 is within the "spread" established by
21	these "upper" and "lower" bounds, it is considered adequate within the tolerance
22	of the zone of reasonableness model's parameters.

1	Q.	Has the Company updated the zone of reasonableness analysis to reflect
2		more recent data than the one submitted with your direct testimony in this
3		case?
4	Α.	Yes. The zone of reasonableness analysis submitted with my direct testimony
5		was based on qualified decommissioning trust fund balances as of June 30, 2003
6		and 12-CP demand allocation factors as of December 31, 2002 (the latest
7		available at the time the direct testimony was filed). I have since updated the
8		analysis using trust fund balances and 12-CP demand allocation factors as of
9		December 31, 2003. No other input parameters were changed.
10	Q.	Please summarize the results of this updated analysis.
11	Α.	As a result of the improved investment returns experienced in the 2 nd half
12		of the year, the beginning balances of the qualified decommissioning trust fund's
13		jurisdictional sub-accounts had grown considerably since the previous analysis.
14		Holding all of the other input parameters the same as in the previous analysis, but
15		starting with the increased fund balances and applying the later 12-CP demand
16		allocators indicates that the current annual Missouri decommissioning expense
17		and contribution amount of \$6,214,184 would be adequate up to a projected
18		decommissioning inflation rate of 3.964%. Thus, this provides further credence
19		to the proposal to leave the annual decommissioning expense and contribution to
20		the Missouri jurisdictional sub-account unchanged at the current \$6,214,184
21		amount following the property transfer.

1		Schedules 1, 2 and 3 illustrate the foregoing qualified decommissioning
2		trust fund valuations and the zone of reasonableness analysis. They are attached
3		to my surrebuttal.
4	Q.	Does the Company agree with Mr. Meyer's position that in the interim
5		period, from the time the property transfer occurs through the next triennial
6		decommissioning update filing in 2005, the portion of the AmerenUE-Illinois
7		retail funding will not be considered, as no further funding will occur?
8	Α.	No. Mr. Meyer is considering a given decommissioning funding level to be a
9		value that is fixed at a given point in time relative to a fixed amount of
10		decommissioning cost liability, and that is "locked in" from one triennial update
11		analysis to the next. He is ignoring the fact that the various projections and input
12		parameters used in deriving the given funding level are not static and can change
13		within the three-year periods between mandated update analyses. Such changes
14		would have a subsequent effect on the required decommissioning funding level,
15		or would change the amount of decommissioning liability that could be funded at
16		a given funding level.
17		It is the Company's contention that there is nothing in the Missouri statute
18		that precludes performing an updated funding analysis prior to the next legally
19		mandated triennial update and adjusting the decommissioning expense and
20		contribution amount accordingly, as long as the triennial update schedule
21		established in the statute continues to be adhered to. In fact, when an
22		"extraordinary" event, such as the Illinois property transfer, occurs that could
23		have ramifications on the decommissioning funding process, the Company

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1		contends that it would be imprudent to not update the funding analysis using the
2		latest available data at the time the event occurred.
3	Q.	If the post-property transfer Missouri decommissioning expense and
4		contribution amount were to be increased by \$272,554 annually (the current
5		Illinois decommissioning expense and contribution amount that will no
6		longer be collected from Illinois ratepayers following the property transfer),
7		as proposed by Mr. Meyer, what would be the effect on decommissioning
8		funding adequacy?
9	А.	The increased annual decommissioning expense and contribution amount of
10		\$6,486,738 (the current \$6,214,184 amount plus the additional \$272,554) would
11		be adequate within a range of decommissioning inflation values from a low of
12		3.472% (based on "conservative" financial and economic assumptions) to a high
13		of 4.643% (based on "optimistic" assumptions). At "expected" financial and
14		economic assumption values, the current annual contribution amount would be
15		adequate for a decommissioning inflation level of 4.006%.
16		Schedule 4 contains the zone of reasonableness analysis from which the
17		foregoing funding adequacy values were derived.
18	Q.	If the amount of decommissioning costs that are included in the Company's cost
19		of service for ratemaking purposes were to be increased, would the Company
20		contribute the increased amount to the qualified decommissioning trust fund?
21	A.	Yes. In its Order in the early Callaway cases regarding the establishment of the
22		decommissioning trust fund (Case No. EO-85-17 and Case No. ER-85-160), the
23		Commission stated as follows:

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1 2 3 4 5 6		 "The Commission, though, requires that UE establish the external fund to take the maximum advantage of the 1984 tax law and follow the requirements of the tax law in making investments for the fund." Consequently, the Company is actually <u>required</u> by Commission order to
7		fund its future decommissioning liability through contributions to the qualified trust
8		fund.
9	Q.	Will this proceeding require the Company to file a request for a schedule of
10		ruling amounts from the Internal Revenue Service in order to ensure that it can
11		make tax-deductible contributions to the qualified decommissioning trust fund?
12	A.	The obligation to make a filing with the Internal Revenue Service will depend upon
13		the Commission's decision on the amount of decommissioning costs that is included
14		in the Company's cost of service for ratemaking purposes. If that amount is left
15		unchanged (as the Company has requested), there will be no Internal Revenue
16		Service filing obligation, and the Company will continue to be permitted to make
17		tax-deductible contributions to the qualified fund consistent with the authorization
18		that it has previously received from the Internal Revenue Service. If that amount
19		were to be decreased, the Company would be required to request and receive from
20		the Internal Revenue Service a schedule of ruling amounts before making any further
21		tax deductible contributions to the qualified fund for the year in which the order
22		takes effect. If the amount is increased, the Company would increase its tax-
23		deductible contribution to the higher level and it would be required to request and
24		receive from the Internal Revenue Service a schedule of ruling amounts authorizing
25		the higher amount before it could make the higher contribution.

1	Q.	If the Company is required to request a schedule of ruling amounts due to an
2		increase in the amount of decommissioning costs that are included in the
3		Company's cost of service for ratemaking purposes, what must be demonstrated
4		to the Internal Revenue Service in order to receive such authorization to make
5		the requested tax-deductible contributions?
6	Α.	The Company will be required to establish that the Commission has determined the
7		amount of decommissioning costs included in the Company's cost of service for
8		ratemaking purposes and has disclosed the after-tax return and any other
9		assumptions, estimates, determinations and other factors used in establishing or
10		approving such amount. This is in accordance with the applicable Treasury
11		Regulation (26 C.F.R. Section 1.468A-3(g)), which reads as follows:
12 13 14		(g) Requirement Of Determination By Public Utility Commission Of Decommissioning Costs To Be Included In Cost Of Service
15 16 17 18 19 20 21		The Internal Revenue Service shall not provide a taxpayer with a schedule of ruling amounts for any nuclear decommissioning fund unless a public utility commission that establishes or approves rates for electric energy generated by the nuclear power plant to which the nuclear decommissioning fund relates has –
21 22 23 24 25		(1) Determined the amount of decommissioning costs of such nuclear power plant to be included in the taxpayer's cost of service for ratemaking purposes; and
26 27 28 29		(2) Disclosed the after-tax return and any other assumptions and determinations used in establishing or approving such amount for any taxable year beginning on or after January 1, 1987.
30		SUMMARY
31	Q.	Please summarize what the Company is seeking from the MPSC with regard
32		to nuclear decommissioning costs.

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1	A.	In conjunction with the proposed transfer of AmerenUE's properties in the Metro
2		East area in Illinois to AmerenCIPS, the Company is requesting that the
3		Commission concurrently approve the following:
4		1) The reallocation of a portion of the decommissioning cost
5		previously allocated to Illinois ratepayers to Missouri ratepayers;
6		2) The reallocation of a portion of the funds currently in the Illinois
7		jurisdictional sub-account of the qualified decommissioning trust
8		fund to the Missouri jurisdictional sub-account;
9		3) The use of the latest available 12-Month Coincident Peak Demand
10		Allocation Factors, adjusted for the elimination of the Illinois
11		demands, for the performance of the above reallocations; and
12		4) The Company's continuing to accrue decommissioning expenses
13		and to make contributions to the qualified decommissioning trust
14		fund at the current level of \$6,214,184 annually.
15		If the Commission does not approve the Company's continuing to accrue
16		decommissioning expenses and to make contributions to the qualified
17		decommissioning trust fund at the current level of \$6,214,184 annually and
18		instead requires the Company to make contributions to the fund at the level of
19		\$6,486,738 annually, as proposed by Mr. Meyer, then, in addition to items 1
20		through 4 above, the Company would also request the following:
21		1) Commission confirmation that the Company's current Missouri
22		jurisdictional cost of service for nuclear decommissioning will
23		increase by \$272,554 as a result of the property transfer and that a

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11	O .	Does this cor	iclude your testimony?
10			request for a revised schedule of ruling amounts.
9			Schedule 4 to the Internal Revenue Service in support of its
8			4 to this surrebuttal testimony. The Company would present
7			used in the zone of reasonableness analysis contained in Schedule
6			established based on the economic and financial input parameters
5			expense to be included in the Company's cost of service is
4		2)	Commission confirmation that the foregoing decommissioning
3			ratemaking purposes; and
2			included in the Company's cost of service in Missouri for
1			total, annual decommissioning expense of \$6,486,738 will be

12 A. Yes, it does.

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Union Electric Company (d/b/a AmerenUE) AVERAGE PEAK DEMANDS AT TIME OF AMEREN PEAK 12 Months Ended December 31, 2003

Pre-Property Transfer Includes Illinois Demands									
	Total	Ultimate Co		Sales For					
	Company	Missouri	Illinois	Resale					
Average Demands:	6,168,583	5,729,500	439,083	0					
Applicable to Resale:	0	(119,114)	0	119,114					
Total:	6,168,583	5,610,386	439,083	119,114					
Fixed Allocation %:	100.00%	90.95%	7.12%	1.93%					

Post-Property Transfer Excludes Illinois Demands										
Total Ultimate Consumers Sales Fo										
	Company	Missouri	Illinois	Resale						
Average Demands:	5,729,500	5,729,500	0	0						
Applicable to Resale:	0	(119,114)	0	119,114						
Total:	5,729,500	5,610,386	0	119,114						
Fixed Allocation %:	100.00%	97.92%	0.00%	2.08%						

CALLAWAY PLANT TAX-QUALIFIED NUCLEAR DECOMMISSIONING TRUST FUND REALLOCATION OF ILLINOIS JURISCOLCTIONAL SUBACCOUNT BALANCES Sub-Account Valuations as of December 31, 2003

	Jur	isdictional Sub-Account		
	Missouri	Illinois	Wholesale	Total
Pre-Property Transfer Balances (Pre-Reallocations):				
Market Value	\$191,531,417.12	\$15,098,999.61	\$5,456,245.74	\$212,086,662.47
Book Value.	146,285,746.31	11,867,593.11	5,079,839,17	163,233,178.59
Unrealized Gains	45,245,670.81	3,231,406.50	376,406.57	48,853,483.88
Composite Income Tax Rate	24.5283%	24,5283%	24.5283%	24,5283%
Income Tax Liability on Unrealized Gains	(11,097,993 87)	(792,609.08)	(92,326.13)	(11,982,929.09)
After-Tax Liquidation Value	\$180,433,423.25	\$14,306,390.53	\$5,363,919,61	\$200,103,733.38
Post-Property Transfer Reallocation Factor (As of 12/31/03);	97.92%	0.00%	2.08%	100.00%
Amounts of Reallocations: Market Value	\$14,785,097.48	(\$15,098,999.61)	\$313,902,13	(\$0:00)
Book Value	11.620,870.62	(11,867,593.11)	246,722.49	0.00
Unrealized Gains	3,164,226.86		67 179 64	***************************************
Income Tax Liability on Unrealized Gains	(776,131.06)	(3,231,406.50) 792,609.08	67,179.64 (16,478.02)	0,00 0,00
After-Tax Liquidation Value	\$14,008,966.43	(\$14,306,390.53)	\$297,424 10	(\$0.00
Post-Property Transfer Balances (Post-Reallocations):				
Market Value	\$206,316,514.60	\$0.00	\$5,770,147.87	\$212,086,662.47
Book Value	157,906,616.93	0.00	5,326,561.66	163,233,178.59
Unrealized Gains	48,409,897.67	0.00	443,586.21	48,853,483.88
Income Tax Liability on Unrealized Gains	(11,874,124.93)	0.00	(108,804.16)	(11,982,929.09
After-Tax Liquidation Value	\$194,442,389.67	\$0.00	\$ <u>5,661,343.71</u>	\$200,103,733.38

Note 1:

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The reallocation factor used above is based on the 12CP coincident demand factors for the 12-months ending December 31, 2002. This is the latest available value for this parameter at the time of preparation of this testimony.

Note 2:

In actual practice, the securities in the Illinois sub-account will not be sold and the proceeds reinvested in the remaining jurisdictional sub-accounts. Doing this would result in a realized gain which would incur an income tax liability. Instead, the individual securities in the Illinois sub-account will be "reassigned" to the Missouri and Wholesale subaccounts. This "reassignment" will be performed in such a manner that the market value is reallocated as closely as possible in accordance with the reallocation factors, while maintaining the index replication of the sub-accounts. But, since the reallocation is being performed by reassigning individual securities with fixed book values, the exact reallocation amounts may vary slightly when considered from a market versus a book value perspective.

In addition, the actual reallocation will be performed at the time the Company so directs the trustee, following receipt of Commission approval. The actual market values will, in all probability, have changed from those indicated in the above spreadsheet

Consequently, the reallocation of the "After-Tax Liquidation Value" should coincide closely with the values indicated in the above spreadsheet, but cannot be expected to match precisely.

AmerenUE Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection Missouri Jurisdiction

1 Current Year: 2003 **2** Year Decommissioning Begins: 2024 **3 Year Decommissioning Ends:** 2033 **4 End-Of-Year Fund Balances** Dec 31, 2003 End-Of-Quarter Fund Balance: \$194,442,390 2033 End-Of-Year Fund Balance: \$0 After entering all data, manually set this cell equal to the Final, Ending Balance of Fund, located on "Fund Projections" worksheet! **5** Annual Contribution to Fund Current: \$6,214,184 \$6,214,184 Revised: **Effective Date of Revised Annual Contribution** Year: 2004 Quarter: 2 **6** Portfolio Return Assumptions Asset Allocation Equities: 65.000% 35.000% Bonds: Real Return on Bonds: 4.500% **CPI Inflation:** 3.000% Nominal Return on Bonds: 7.500% Equity Premium over Bonds: 4.000% Nominal Return on Equities: 11.500% Weighted Average Return: 10.100% Switch Out of Equities at End-Of-Year: 2022 7 Investment Management & Trust Fees (Basis Points): 15.00 8 Federal & State Tax Assumptions Federal Tax Rate: 20.0000% Missouri State Income Tax Rate: 6.2500% Percentage of Federal Taxes Deductible on MO Taxes: 50.0000%

Composite Tax Rate:

Schedule 3 Page 1 of 5

24.5283%

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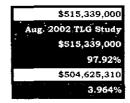
Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection

Missouri Jurisdiction

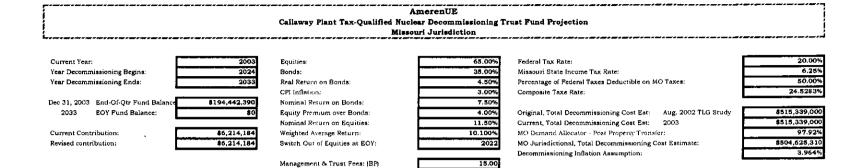
1 Decommissioning Expense Estimates

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Original, Total Decommissioning Cost Estimate: Original Estimate Based On: Current, Total Decommissioning Cost Estimate: Demand Allocator (Missouri - Post Property Transfer): MO Jurisdictional, Total Decommissioning Cost Estimate: Decommissioning Inflation:



Year	Aug. 2002 TLG Study Total Decommissioning Expenses	Aug. 2002 TLG Study Decommissioning Expenses % OF TOTAL	Missouri Jurisdictional Decommissioning Expenses 2002	# of Years of Inflation	Inflation Factor At 3.964% Decommissioning Inflation Rate	Missouri Jurisdictional Decommissioning Expenses (Inflated \$\$)
TOTAL	\$515,339,000.00	100.00%	\$504,625,310			\$1,380,946,608
2003	\$0	0.00%	\$0	1	1.0396	\$0
2004	\$0	0.00%	\$0	2	1.0808	\$0
2005	\$0	0.00%	\$0	3	1.1237	\$0
2006	\$0	0.00%	\$0	4	1.1682	\$(
2007	\$0	0.00%	\$0	5	1.2145	\$0
2008	\$0	0.00%	\$0	6	1.2627	\$(
2009	\$0	0.00%	\$0	7	1.3127	\$(
2010	\$0	0.00%	\$0	8	1.3648	\$
2011	\$0	0.00%	\$0	9	1.4188	\$
2012	\$0	0.00%	\$0	10	1.4751	\$
2013	\$0	0.00%	\$0	11	1.5336	\$
2014	\$0	0.00%	\$0	12	1.5943	\$
2015	\$0	0.00%	\$0	13	1.6575	\$
2016	\$0	0.00%	\$0	14	1.7232	\$
2017	\$0	0.00%	\$0	15	1.7915	\$
2018	\$0	0.00%	\$0	16	1.8625	\$
2019	SO	0.00%		17	1.9364	\$
2020	SU	0.00%		18	2.0131	\$
2021	\$0	0.00%		19	2.0929	4
2022	\$0	0.00%		20	2.1759	ç
2023	\$0	0.00%		21	2.2621	\$
2024	\$9,627,000	1.87%	-	22	2.3518	\$22,169,89
2025	\$56,737,000	11.01%		23	2.4450	\$135,837,84
2026	\$108,154,000	20.99%		24	2.5419	\$269,202,24
2027	\$103,226,000	20.03%		25	2.6427	\$267,120,27
2028	\$57,321,000	11.12%		26	2.7474	\$154,210,22
2029	\$57,164,000	11.09%		27	2.8563	\$159,883,52
2030	\$49,358,000			28	2.9695	\$143,522,60
2031	\$31,638,000			29	3.0872	\$95,643,0
2032	\$34,101,000		, ,	30	3.2096	\$107,174,93
2033	\$8,013,000			31	3.3368	\$26,182,0



			6. decisión 16. 6 mailtín an a martinite											
¥	Beginning-of-Year	Annual Contributions To		Pre Tax & Fee		Investment Management & Trust		Federal & State Income		After Tax & Fee		Missouri Jurisdictional Decommissioning Expenses		End-Of-Year Balance
TOTAL		\$ 130,497,865	8	1,423,831,654	8	24,623,235		343,202,065	8	1,056,006,354		1,380,946,608		
2003													\$	194,442,390
2004	\$ 194,442,390	\$ 6,214,184	\$	19,952,498	\$	311,289	\$	4,817,655	\$	14,823,554	\$	-		215,480,12
2005	215,480,128	6,214,184		22,077,309		344,439		5,330,704	~~~~	16,402,165		•		238,096,47
2006	238,096,478	6,214,184		24,361,561		380,077		5,882,251	~~~~~	18,099,233		-		262,409,89
2007	262,409,895	6,214,184		26,817,216		418,388		6,475,184		19,923,643		-		285,547,72
2008	288,547,723	6,214,184	himitem	29,457,136		459,575		7,112,609	hilling	21,884,952	harau			316,646,85
2009	316,646,859	6,214,184	4	32,295,149		503,852		7,797,865		23,993,431		*		346,854,47
2010	346,854,474	6,214,184	After California	35,346,118		551,452	******	8,534,541		25,260,125			4	379,328,78
2011	379,328,784	6,214,184	*****	38,626,023		602,623	*********	9,326,494		28,695,906		-		414,239,87
2012	414,239,873	6,214,184	Dectional Con	42,152,044		657,634		10,177,874		31,316,535		*		451,770,59
2013	451,770,593	6,214,184		45,942,646		715,774		11,093,139		34, 132, 734		•		492,117,51
2014	492,117,511	6,214,184		50,017,685		780,350		12,077,082		37,160,253		*		535,491,94
2015	535,491,947	6,214,184		54,398,503		848,697		13,134,858	,	40,414,948		-		582,121,07
2016	582,121,079	6,214,184		59,108.045	unun	922,173		14,272,006		43,913,866				632,249,12
2017	632,249,129	6,214,184	HIMIHHHH	64,170,978	po.pri	1,001,163		15,494,483		47,675,333	4-142944			686,138,64
2018	686,138,645	6,214,184		69,613,819		1,086,079		16,808,691		51,719,049		*		744,071,87
2019	744,071,879	6,214,184		75,465,076		1,177,367	******	18,221,513		56,066,195	uuun	*	uningini	806,352,25
2020	806,352,258	6,214,184		81,755,394		1,275,506		19,740,350		60,739,539		-		873,305,98
2021	873,305,981	6,214,184		88,517,720		1,381,008		21,373,156		65,763,557	4			945,283,72
2022	945,283,722	6,214,184		95,787,472		1,494,427		23,128,483		71,164,563		•		1,022,662,46
2023	1,022,662,468	5,214,184		76,932,717		1,596,354		18,478,731		56,857,633		-		1,085,734,28
2024	1,085,734,285	6,214,184	efers felens fr	80,831,732		1,677,258	abiHrirrel	19,415,248		59,739,225		22,169,899		1,129,517,79
2025	1,129,517,795	idental frationer an unit transmostance		79,610,915		1,652,113		19,124,178		58,843,624		135,837,845		1,052,523,57
2026	1,052,523,575	-		68,844,184		1,428,517		16,535,918		50,879,749		269,202,240		834,201,08
2027	834,201,083	******	-,'	52,548,071		1,090,372		12,621,700		38,835,999		267,120,274		605,916,80
2028	605,916,808	•		39,650,877		822,963		9,526,281		29,311,633		154,210,228		481,018,21
2029	481,018,213		14-14)-1-141-14	30,080,734		624,175	anto mur	7,225,194		22,231,365		159,883,520		343,366,05
2030	343,366,058	-		20,370,357		422,685		4,892,825		15,054,847		143,522,607		214,898,29
2031	214,898,298	Hillion and a state of the stat		12,530,758		260,013		3,009,805		9,260,939		95,643,058		128,516,17
2032	128,516,179	-		5,619,654		116,608		1,349,804		4,153,242	-040-11	107,174,931	*******	25,494,49
2033	25,494,490	minetal and a second	rumushihi	930,262		19,303		223,443	~	687,516		26,182,006		(

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Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection Missouri Jurisdiction

	Contribution Boundary Estimates								
1 Portfolio Return Assumptions	Optimistic Estimate	Expected Estimate	Conservative Estimate						
Equity Allocation:	65.000%	65.000%	65.000%						
Bond Allocation:	35.000%	35.000%	35.000%						
Real Return on Bonds:	4.750%	4.500%	4.250%						
CPI Inflation:	3.250%	3.000%	2.750%						
Nominal Return on Bonds:	8.000%	7.500%	7.000%						
Equity Premium over Bonds:	4.500%	4.000%	3.500%						
Nominal Return on Equities:	12.500%	11.500%	10.500%						
Weighted Average Return:	10.925%	10.100%	9.275%						
Switch out of Equities at End-Of-Year:	2024	2022	2021						

2 Decommissioning Expense Estimates

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\$0

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Decommissioning Inflation:	4.603%	3.964%	3.429%
-			

		Optimistic	Expected	Conservative
Revised Annual Contr	ibution:	\$6,214,184	\$6,214,184	\$6,214,184
\$8,000,000	Nuclear Decommis	sioning Zone of Reas	sonableness	
n	\$6,214,184	\$6,214,184	\$6,214,184	
∯6,000,000 4 5 5 5 5 5 7 8 4,000,000				

Expected

Conservative

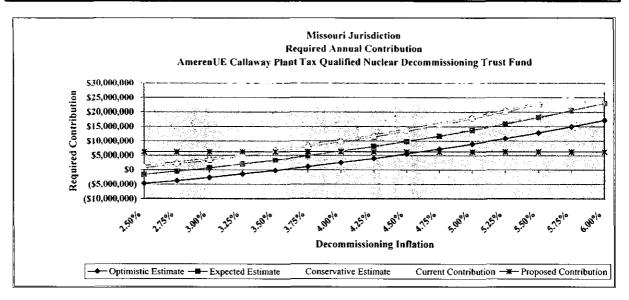
Optimistic

Schedule 3 Page 4 of 5

AmerenUE Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection Missouri Jurisdiction Zone of Reasonableness Analysis

	Contribution Boundary Estimates							
Portfolio Return Assumptions	Optimistic Estimate	Expected Estimate	Conservative Estimate					
Equity Allocation:	65,00%	65.00%	65.00%					
Bond Allocation:	35.00%	35,00%	35.00%					
Real Return on Bonds:	4,75%	4.50%	4,25%					
CPI Inflation:	3,25%	3.00%	2.75%					
Nominal Return on Bonds:	8,00%	7.50%	7.00%					
Equity Premium over Bonds:	4.50%	4,00%	3.50%					
Nominal Return on Equities:	12.50%	j1,50%	10.50%					
Weighted Average Return:	10.93%	10,10%	9.28%					
Switch out of Equities at End-Of-Year:	2024	2022	2021					

	Required Contribution Amounts							
Decommissioning Inflation:	Optimistic Estimate	Expected Estimate			Conservative Estimate			
2.50%	\$ (4,734,399)	\$	(1,707,099)	\$	1,047,477			
2.75%	\$ (3,703,641)	\$	(544,302)	\$	2,326,127			
3.00%	\$ (2,608,665)	\$	690,994	\$	3,684,556			
3.25%	\$ (1,445,608)	\$	2,003,153	\$	5,127,571			
3.50%	\$ (210,383)	\$	3,396,794	\$	6,660,257			
3.75%	\$ 1,101,337	\$	4,876,803	\$	8,287,997			
4.00%	\$ 2,494,124	\$	6,448,349	\$	10,016,484			
4.25%	\$ 3,972,818	\$	8,116,900	\$	11,851,742			
4.50%	\$ 5,542,536	\$	9,888,240	\$	13,800,139			
4.75%	\$ 7,208,691	\$	11,768,484	\$	15,868,415			
5.00%	\$ 8,977,003	\$	13,764,100	\$	18,063,692			
5.25%	\$ 10,853,525	\$	15,881,927	\$	20,393,505			
5.50%	\$ 12,844,651	\$	18,129,193	\$	22,865,818			
5.75%	\$ 14,957,144	\$	20,513,542	\$	25,489,053			
6.00%	\$ 17,198,149	\$	23,043,052	\$	28,272,108			



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Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection Missouri Jurisdiction

4

1 Current Year: 2003 **2** Year Decommissioning Begins: 2024 **3 Year Decommissioning Ends:** 2033 **4 End-Of-Year Fund Balances** Dec 31, 2003 End-Of-Quarter Fund Balance: \$194,442,390 2033 End-Of-Year Fund Balance: \$0 After entering all data, manually set this cell equal to the Final, Ending Balance of Fund, located on "Fund Projections" worksheet! **5** Annual Contribution to Fund Current: \$6,214,184 \$6,486,738 Revised: **Effective Date of Revised Annual Contribution** Year: 2004 Quarter: з **6** Portfolio Return Assumptions Asset Allocation Equities: 65.000% 35.000% Bonds: Real Return on Bonds: 4.500% **CPI** Inflation: 3.000% Nominal Return on Bonds: 7.500% Equity Premium over Bonds: 4.000% Nominal Return on Equities: 11.500% Weighted Average Return: 10.100% Switch Out of Equities at End-Of-Year: 2022 7 Investment Management & Trust Fees (Basis Points): 15.00 8 Federal & State Tax Assumptions Federal Tax Rate: 20.0000% Missouri State Income Tax Rate: 6.2500% Percentage of Federal Taxes Deductible on MO Taxes: 50.0000% Composite Tax Rate: 24.5283%

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Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection

Decommissioning Expense Calculation

Missouri Jurisdiction

1 Decommissioning Expense Estimates

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Original, Total Decommissioning Cost Estimate: Original Estimate Based On: Current, Total Decommissioning Cost Estimate: Demand Allocator (Missouri - Post Property Transfer): MO Jurisdictional, Total Decommissioning Cost Estimate:

Decommissioning Inflation:

2032

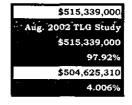
2033

\$34,101,000

\$8,013,000

6.62%

1.55%



		Decomn	iissioning Expense	e Calculat	ion	
			Missouri			Missouri
•	Aug. 2002 TLG Study	Aug. 2002 TLG Study	Jurisdictional		Inflation Factor At	Jurisdictional
	Total	Decommissioning	Decommissioning	# of	4.006%	Decommissioning
	Decommissioning	Expenses	Expenses	Years of	Decommissioning	Expenses
Year	Expenses	% OF TOTAL	2002	Inflation	Inflation Rate	(Inflated \$\$)
TOTAL	\$515,339,000.00	100.00%	\$504,625,310			\$1,395,605,037
2003	\$0	0.00%	\$0	1	1.0401	\$0
2004	\$0	0.00%	\$0	2	1.0817	\$0
2005	\$0	0.00%	\$0	3	1.1251	\$0
2006	\$0	0.00%	\$0	4	1,1701	\$0
2007	\$0	0.00%	\$0	5	1.2170	\$0
2008	\$0	0.00%	\$0	6	1.2658	\$0
2009	\$0	0.00%	\$0	7	1.3165	\$0
2010	\$0	0.00%	\$0	8	1.3692	\$0
2011	\$0	0.00%	\$0	9	1.4240	\$0
2012	\$0	0.00%	\$0	10	1.4811	\$0
2013	\$0	0.00%	\$0	11	1.5404	\$0
2014	\$0	0.00%	\$0	12	1.6021	\$0
2015	\$0	0.00%	\$0	13	1.6663	\$0
2016	\$0	0.00%	\$0	14	1.7331	\$0
2017	\$0	0.00%	\$0	15	1.8025	\$0
2018	\$0	0.00%	\$0	16	1.8747	\$0
2019	50	0.00%	\$0	17	1.9498	\$0
2020	\$U	0.00%	\$0	18	2.0279	\$0
2021	\$0	0.00%	\$0	19	2,1091	\$0
2022	\$0	0.00%	\$0	20	2.1936	\$0
2023	\$0	0.00%	\$0	21	2.2815	\$0
2024	\$9,627,000	1.87%	\$9,426,859	22	2.3729	\$22,368,899
2025	\$56,737,000	11.01%	\$55,557,461	23	2.4679	\$137,112,827
2026	\$108,154,000	20.99%	\$105,905,522	24	2.5668	\$271,839,383
2027	\$103,226,000	20.03%	\$101,079,973	25	2.6696	\$269,846,608
2028	\$57,321,000	11.12%	\$56,129,319	26	2.7766	\$155,847,448
2029	\$57,164,000	11.09%	\$55,975,583	27	2.8878	\$161,646,618
2030	\$49,358,000	9.58%	\$48,331,867	28	3.0035	\$145,164,238
2031	\$31,638,000	6.14%	\$30,980,259	29	3.1238	\$96,776,337
0000	A34 101 000	6 600	#00.000 0F 1		0.0400	#100 400 010

\$33,392,054

\$7,846,413

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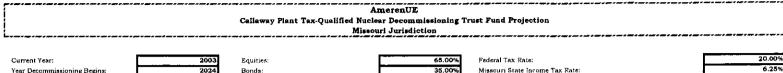
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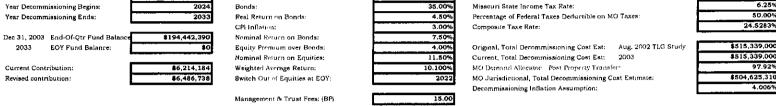
3.2489

3.3791

\$108,488,910

\$26,513,768





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Vara	Beginning-of-Year	Annual Contributions To Put f		Рте Тих & Рес		Investment Management & Trust		Federal & State Income Taxon		After Tax & Fee	Missouri Jurisdictional Decommissioning Expenses (infected \$\$)		End-Of-Year Balance
TOTAL		\$ 136,017,083	*	1,436,159.642	\$	24,841,769		346,172,308	\$	1,065,145.564	1,395,605,037	,	
2003												\$	194,442,390
2004	\$ 194,442,390	\$ 6,282,323	\$	19,955,939	\$	311,342	\$	4,818,486	\$	14,826,110	\$		215,550,823
2005	215,550,823	6,486,738		22,098,213	••••••	344,765	inn lirar	5,335,751	hronab	16,417,697	*	, ,	238,455,258
2006	238,455,258	6,486,738		24,411,561		380,857		5,894,324		18,136,381	-		263,078,376
2007	263.078.376	6,485,738		26,898,496		419.656		6,494,810		19,984,030			289,549,144
2008	289,549,144	6,486,738		29,572,044		461,368		7,140,355		21,970,322			318,006,204
2009	318,006,204	6,486,738		32,446,207		506,209	He baa HaaH	7.834.339		24,105,659			348,598,601
2010	348,598,601	6,486,738		35,536,039		554,415		8,580,398		26,401,226			381,486,564
2011	381,486,564	6,486,738		38,857,723		606,238		9,382,440		28,869,045			416,842,348
2012	416.842.348	6,486,738		42,428,657		661,950		10,244,664		31,522,043			454,851,129
2013	454,851,129	6,486,738		46,267,544		721,842		11,171,587		34,374,115			495,711,982
2014	495,711,982	6,486,738	O.H.H.H.	50,394,490		786,229		12,168,064		37,440,197	******		539,638,917
2015	539,638,917	6,486,738		54,831,111		855,447	h	13,239,314	arlanan.	40,736,350	••••••••••••••••••••••••••••••••••••••		586,862,005
2016	586,862,005	6,486,738		59,600,643		929,859		14,390,947		44,279,837	-		637,628,581
2017	637.628.581	6,485,738	Hurnwert	64,728,067	*****	1,009,854	******	15,628,996	•••••••	48,089,217			692,204,536
2018	692,204,536	6,486,738		70,240,238		1,095,852		16,959,944		52,184,443			750,875,716
2019	750,875,716	6,486,738		76,166,028		1,188,303		18,390,763		56,586,962			813,949,416
2020	813,949,416	6,486,738	itri-attribuble	82,536,471		1,287,692	*****	19,928,946		61,319,834	•		881,755,988
2021	881,755,988	6,486,738	190-H-190610	89,384,935	******	1,394,538		21,582,550		65,407,847	-		954,650,573
2022	954,650,573	6,486,738		96,747,288		1,509,401		23,360,236		71,877,650	•		1,033,014,961
2023	1,033,014,961	6,486,738	*****	77,719,375		1,612,677		18,667,681		57,439,017	-		1,096,940,717
2024	1,096,940,717	6,486,738		81.674,973		1,694,756		19,617,789		60,362,428	22,368,899		1,141,420,983
2025	1,141,420,983			80,464,843		1,669,645		19,327,124		59,468,073	137,112,827		1,063,776,230
2026	1,063,776,230		ninnnitin	69,589,240		1,443,977	Heba-ba-bi	16,714,876		51,430,388	271,839,383		843,367,234
2027	843,367,234	±		53.133,295		1,102,516		12,762,267		39,268,512	269,846,608		612,789,139
2028	612,789,139	an a	latahtHat	40,114,906		832,384	*****	9,635,336		29,647,186	155,847,448		486,588,877
2029	486,588,877	-		30,432,418		631,473		7,309,666		22,491,279	161,646,618		347,433,538
2030	347,433,538	•		20,613,856		427,738		4,951,312		15,234,807	145,164,238		217,504,107
2031	217,504,107	•		12,683,695		263,187		3,046,540		9,373,969	96,776,337		130,101,739
2032	130,101,739		-944-9494-9	5,689,296		118,053		1,366,531		4,204,712	108,488,910		25,817,540
2033	25,817,540	*		942.049		19,548		226,274		696,228	26,513,768		0

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50.00%

97.92%

4.006%

24.5283%

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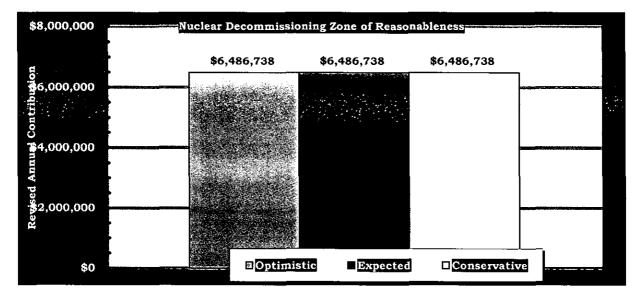
Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection Missouri Jurisdiction

	Contribution Boundary Estimates									
1 Portfolio Return Assumptions	Optimistic Estimate	Expected Estimate	Conservative Estimate							
Equity Allocation:	65.000%	65.000%	65.000%							
Bond Allocation:	35.000%	35.000%	35.000%							
Real Return on Bonds:	4.750%	4.500%	4.250%							
CPI Inflation:	3.250%	3:000%	2.750%							
Nominal Return on Bonds:	8.000%	7.500%	7.000%							
Equity Premium over Bonds:	4.500%	4.000%	3.500%							
Nominal Return on Equities:	12.500%	11.500%	10.500%							
Weighted Average Return:	10.925%	10.100%	9.275%							
Switch out of Equities at End-Of-Year:	2024	2022	2021							

2 Decommissioning Expense Estimates

Decommissioning Inflation:	4.643%	4.006%	3.472%

	Optimistic	Expected	Conservative
Revised Annual Contribution:	\$6,486,738	\$6,486,738	\$6,486,738

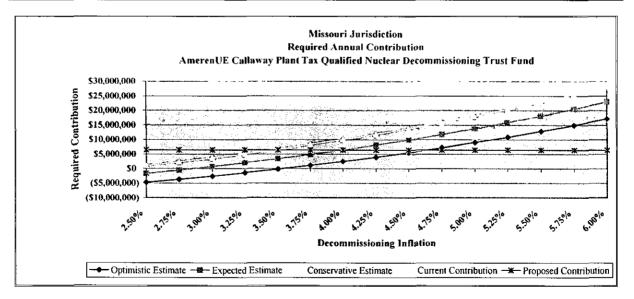


AmerenUE Callaway Plant Tax-Qualified Nuclear Decommissioning Trust Fund Projection Missouri Jurisdiction Zone of Reasonableness Analysis

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	Con	tribution Boundary Estimat	es
Portfolio Return Assumptions	Optimistic Estimate	Expected Estimate	Conservative Estimate
Equity Allocation:	65.00%	65,00%	65.00%
Bond Allocation:	35.00%	35.00%	35,00%
Real Return on Bonds:	4.75%	4.50%	4.25%
CP1 Inflation:	3.25%	3,00%	2,75%
Nominal Return on Bonds:	8,00%	7.50%	7.00%
Equity Premium over Bonds:	4.50%	4.00%	3,50%
Nominal Return on Equities:	12.50%	11.50%	10.50%
Weighted Average Return:	10.93%	10.10%	9,28%
Switch out of Equities at End-Of-Year:	2024	2022	2021

		Required Contribution Amounts								
Decommissioning Inflation:		Optimistic Estimate	Expected Estimate			Conservative Estimate				
2.50%	\$	(4,734,399)	\$	(1,707,099)	\$	1,047,477				
2.75%	\$	(3,703,641)	\$	(544,302)	\$	2,326,127				
3.00%	\$	(2,608,665)	\$	690,994	\$	3,684,556				
3.25%	\$	(1,445,608)	\$	2,003,153	\$	5,127,571				
3.50%	\$	(210,383)	\$	3,396,794	\$	6,660,257				
3.75%	\$	1,101,337	\$	4,876,803	\$	8,287,997				
4.00%	\$	2,494,124	\$	6,448,349	\$	10,016,484				
4.25%	\$	3,972,818	\$	8,116,900	\$	11,851,742				
4.50%	\$	5,542,536	\$	9,888,240	\$	13,800,139				
4.75%	\$	7,208,691	\$	11,768,484	\$	15,868,415				
5.00%	\$	8,977,003	\$	13,764,100	\$	18,063,692				
5.25%	\$	10,853,525	\$	15,881,927	\$	20,393,505				
5,50%	\$	12,844,651	\$	18,129,193	\$	22,865,818				
5.75%	\$	14,957,144	\$	20,513,542	\$	25,489,053				
6.00%	\$	17,198,149	\$	23,043,052	S	28,272,108				



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CERTIFICATE OF SERVICE

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I hereby certify that a copy of the foregoing has been sent to all parties of record this 1st day of March, 2004 by electronic mail (e-mail) or U.S. Mail.

<u>/s/ Joseph H. Raybuck</u>