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Rate Design James C. Watkins MO PSC Staff Supplemental Testimony ER-2008-0318 December 4, 2008

MISSOURI PUBLIC SERVICE COMMISSION

UTILITY OPERATIONS DIVISION

SUPPLEMENTAL TESTIMONY

OF

JAMES C. WATKINS

UNION ELECTRIC COMPANY d/b/a AMERENUE

CASE NO. ER-2008-0318

Jefferson City, Missouri December 2008

Exhibit No Case No(s). ER-2 Date 12-01-08 _ Rptr_<u>X-F</u>

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Union Electric Company) d/b/a AmerenUE for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area.

Case No. ER-2008-0318

AFFIDAVIT OF JAMES C. WATKINS

STATE OF MISSOURI) ss **COUNTY OF COLE**)

James C. Watkins, of lawful age, on his oath states: that he has participated in the preparation of the following Supplemental Testimony in question and answer form, consisting of 5 pages of Supplemental Testimony to be presented in the above case, that the answers in the following Supplemental Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true to the best of his knowledge and belief.

James

day of December, 2008. Subscribed and sworn to before me this $\frac{1}{2}$



SUSAN L. SUNDERMEYER My Commission Expires September 21, 2010 Callaway County Commission #06942086

Notary Public

3 OF 3 JAMES C. WATKINS 0 UNION ELECTRIC COMPANY 0 d/b/a 11 AMERENUE 12 CASE NO. ER-2008-0318 14 CASE NO. ER-2008-0318 15 Q. 16 Q. 17 A. 18 Service Commission, 200 Madison Street, P. O. Box 360, Jefferson City, Missouri 65102. 19 Q. 10 Who is your employer and what is your present position? 20 A. 11 am employed by the Missouri Public Service Commission (Commission) and my title is Manager, Economic Analysis, Energy Department, Operations Division. 21 Q. 22 A. 23 in this case? 24 A. 25 Q. 26 A. 27 Q. 28 Q. 29 What is the purpose of your supplemental testimony? 26 A. 27 Q. 28 Q. 29 What is the purpose of service and rate design. 29	1	SUPPLEMENTAL TESTIMONY
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A. The Staff recommends that the Commission reject the nonunanimous	27 agreement re	garding class cost of service and rate design.
	28 Q.	What is the Staff's recommendation?
30 stipulation and agreement for the following reasons:	29 A.	The Staff recommends that the Commission reject the nonunanimous
	30 stipulation an	d agreement for the following reasons:

Supplemental Testimony of James C. Watkins

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1	1. The revenue shifts are not consistent with any of the class cost-of-service
2	studies relied on by the parties;
3	2. No provision is made to retain the following current rate design features of the
4	AmerenUE rate schedules:
5	(1) The customer charges on the Small Primary Service (SPS), Large Primary
6	Service (LPS), and Large Transmission Service (LTS) rate schedules should be
7	the same dollar amounts.
8	(2) The rates (\$ per kW) for Rider B voltage credits should be the same under
9	all applicable rate schedules.
10	(3) The rate (\$ per billed kVar) associated with the Reactive Charge should be
11	the same under all applicable rate schedules.
12	(4) The rate (\$ per month) associated with the Time-of-Day meter charge
13	should be the same under all applicable rate schedules.
14	(5) The Time-of-Day energy charge adjustments should be the same on the
15	LPS and LTS rate schedules.
16	3. Larger than system average increases are proposed for the lighting class,
17	despite it not being included in any of the class cost-of-service studies.
18	4. A larger than system average increase is proposed for a customer whose
19	contract with AmerenUE provides that any rate change will be at the level of the
20	overall system average rate change.
21	5. The Staff's class cost-of-service study establishes that no class revenue shifts
22	are necessary in this case given the class revenue shifts accomplished in
23	AmerenUE's immediately preceding rate case, ER-2007-0002. Nonetheless, if the

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Supplemental Testimony of James C. Watkins

Commission adopted the class revenue shifts shown in the Staff's study, the class revenue shift for the LTS Class effectuated by the nonunanimous stipulation and agreement is in the opposite direction of the shift that is indicated as necessary and appropriate by the Staff's study.

Q. What were the results of the class cost-of-service studies filed in this case?

A: Please see below a summary table, which was attached to Staff witness David Roos Rebuttal Testimony as Schedule DCR-R-1:

	Residential	Small General Service	Lg General Service/Sm Primary Service	Large Primary Service	Large Transmission Service
Staff	3.160	-3.063	-5.092	2.901	4.882
AmerenUE	6.820	-6.626	-7.561	3.536	-2.641
OPC 1	-1.850	-9.900	-2.130	14.470	23.010
OPC 2	0.060	-7.080	-2.550	10.480	11.630
MIEC	12.300	-5.800	-11.000	-3.800	-16.200

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shifts?

Q. Does the Staff's class cost-of-service study support the proposed class revenue

A. No. While the Staff's class cost-of-service study establishes that no class revenue shifts are necessary in this case, the Staff's study shows that any rate increase for the Large Transmission Service (LTS) class should be about five percent (5%) **above** the system average, **not below the system average**.

Q. Do the class cost-of-service studies performed by the Office of The Public
Counsel (OPC) support the proposed class revenue shifts?

A. No. OPC's studies show that the LTS class's revenues should be increased in
the range of about twelve percent (12%) to twenty-three percent (23%) above the system

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Supplemental Testimony of James C. Watkins

1 average, not below the system average. The OPC's studies also show that Residential rates, 2 rather than being increased, should be lowered by as much as two percent (2%) below the system average. However, in in filed, prepared Direct Testimony OPC interpreted its own studies together with other factors to indicate that no class revenue shifts are warranted at this time.

6 Q. Does AmerenUE's class cost-of-service study support the proposed class 7 revenue shifts?

AmerenUE's study shows that the LTS class's revenues could be Α. No. increased between two to three percent (2%-3%) below the system average; however, AmerenUE in filed, prepared Direct Testimony interpreted its own study together with other factors to indicate that no class revenue shifts are warranted at this time.

12 Q. Does MIEC's class cost-of-service study support the proposed class revenue 13 shifts?

14 Α. No. MIEC's study is the only one that shows that the LTS class's revenues 15 should be increased by an amount below the system average. It is also the only study that 16 shows that the Large Primary Service (LPS) class's rates should be increased by less than the 17 system average. Its study shows that LPS rates should be increased by about four percent 18 (4%) below the system average; however, the nonunanimous stipulation and agreement 19 provides for an **above** average increase for the LPS class.

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Q. Has the Staff been able to replicate the table on Attachment 1 of the nonunanimous stipulation and agreement?

22 Α. The Staff has been able to calculate the rate increases to each class at each of 23 the four revenue increase levels shown on Attachment 1 of the nonunanimous stipulation and

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Supplemental Testimony of James C. Watkins

agreement. The Staff has nothing to compare its calculations to for other levels of revenue
 increases. Attached as Appendix A to this testimony is the Staff's calculations of revenue
 increases for these and additional levels of revenue increase.

Q. Could the nonunanimous stipulation and agreement be easily implemented if
the Commission would approve it?

6 Α. Because of the complexities of the calculations, it would be difficult to 7 implement. Therefore, I recommend that, if the Commission approves the nonunanimous 8 stipulation and agreement, it should require the signatory parties to file in EFIS a fully 9 functional Excel spreadsheet with one input cell for the amount of overall revenue increase 10 granted by the Commission. The spreadsheet should then calculate and display the dollar and 11 percentage increases for each class. This is the only way to ensure that tariff sheets bearing 12 the new rates can be implemented in a timely fashion without disagreements as to what the 13 language in the nonunanimous stipulation and agreement really means.

The Staff is prepared to assist with and review the spreadsheet before filing if the Commission would approve the nonunanimous stipulation and agreement.

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Does this conclude your supplemental testimony?

A. Yes, it does.

Q.

TABLE 1: THE SYSTEM AVERAGE PERCENTAGE INCREASE APPLIED TO ALL CLASSES

TOTAL MO INCREASE	RESIDENTIAL	SMALL GS	COMBINED LGS&SPS	LARGE PRIMARY	LARGE TRANSMISSION	LIGHTING & MSD	SYSTEM AVG INCREASE
\$40,000,000	\$17,250,545	\$4,619,397	\$12,017,379	\$3,057,315	\$2,505,703	\$549,660	1.92%
\$60,000,000	\$25,875,818	\$6,929,096	\$18,026,069	\$4,585,972	\$3,758,555	\$824,491	2.88%
\$79,999,000	\$34,500,659	\$9,238,679	\$24,034,458	\$6,114,553	\$5,011,344	\$1,099,307	3.83%
\$80,000,000	\$34,501,090	\$9,238,794	\$24,034,758	\$6,114,630	\$5,011,406	\$1,099,321	3.83%
\$80,001,000	\$34,501,522	\$9,238,910	\$24,035,059	\$6,114,706	\$5,011,469	\$1,099,335	3.83%
\$100,000,000	\$43,126,363	\$11,548,493	\$30,043,448	\$7,643,287	\$6,264,258	\$1,374,151	4.79%
\$120,000,000	\$51,751,636	\$13,858,191	\$36,052,137	\$9,171,945	\$7,517,110	\$1,648,981	5.75%
\$140,000,000	\$60,376,908	\$16,167,890	\$42,060,827	\$10,700,602	\$8,769,961	\$1,923,812	6.71%
\$149,999,000	\$64,689,113	\$17,322,624	\$45,064,871	\$11,464,854	\$9,396,324	\$2,061,213	7.19%
\$150,000,000	\$64,689,544	\$17,322,739	\$45,065,172	\$11,464,931	\$9,396,387	\$2,061,227	7.19%
\$150,001,000	\$64,689,976	\$17,322,855	\$45,065,472	\$11,465,007	\$9,396,450	\$2,061,240	7.19%
\$170,000,000	\$73,314,817	\$19,632,438	\$51,073,861	\$12,993,588	\$10,649,238	\$2,336,057	8.15%
\$200,000,000	\$86,252,726	\$23,096,986	\$60,086,896	\$15,286,575	\$12,528,516	\$2,748,302	9.59%

TABLE 2: THE LARGE TRANSMISSION SERVICE REVENUE SHIFT

TOTAL MO INCREASE	RESIDENTIAL	SMALL GS	COMBINED LGS&SPS	LARGE PRIMARY	LARGE TRANSMISSION	LIGHTING & MSD	SUM OF SHIFTS
\$40,000,000	\$0	\$0	\$0	\$0	\$0	· \$0	\$0
\$60,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$79,999,000	\$0	\$0	\$0	· \$0	\$0	\$0	\$0
\$80,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$80,001,000	\$14	\$4	\$10	\$3	(\$31)	\$0	(\$0)
\$100,000,000	\$288,209	\$77,177	\$200,777	\$51,079	(\$626,426)	\$9,183	\$0
\$120,000,000	\$576,418	\$154,355	\$401,554	\$102,159	(\$1,252,852)	\$18,367	\$0
\$140,000,000	\$864,626	\$231,532	\$602,331	\$153,238	(\$1,879,277)	\$27,550	(\$0)
\$149,999,000	\$1,008,716	\$270,117	\$702,710	\$178,775	(\$2,192,459)	\$32,141	(\$0)
\$150,000,000	\$1,008,731	\$270,121	\$702,720	\$178,777	(\$2,192,490)	\$32,142	(\$0)
\$150,001,000	\$1,008,731	\$270,121	\$702,720	\$178,777	(\$2,192,490)	\$32,142	(\$0)
\$170,000,000	\$1,008,731	\$270,121	\$702,720	\$178,777	(\$2,192,490)	\$32,142	(\$0)
\$200,000,000	\$1,008,731	\$270,121	\$702,720	\$178,777	(\$2,192,490)	\$32,142	(\$0)

Appendix A

TABLE 3: THE RE-ASSIGNMENT OF THE RESIDENTIAL-LTS REVENUE SHIFT TO GENERAL SERVICE

TOTAL MO INCREASE	RESIDENTIAL	SMALL GS	COMBINED LGS&SPS	LARGE PRIMARY	LARGE TRANSMISSION	LIGHTING & MSD	SUM OF SHIFTS
\$40,000,000	\$0	\$0	\$ 0	\$0	\$0	\$0	\$0
\$60,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$79,999,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$80,000,000	\$0	\$0	\$ 0	\$0	\$0	\$0	\$0
\$80,001,000	(\$14)	\$4	\$10	\$0	\$0	\$0	(\$0)
\$100,000,000	(\$288,209)	\$80,025	\$208,184	\$0	\$0	\$0	(\$0)
\$120,000,000	(\$576,418)	\$160,049	\$416,368	\$0	\$0	\$0	(\$0)
\$140,000,000	(\$864,626)	\$240,074	\$624,553	\$0	\$0	\$0	\$0
\$149,999,000	(\$1,008,716)	\$280,082	\$728,634	\$0	\$0	\$0	(\$0)
\$150,000,000	(\$1,008,731)	\$280,086	\$728,645	\$0	\$0	\$0	(\$0)
\$150,001,000	(\$1,008,731)	\$280,086	\$728,645	\$0	\$ 0	\$0	(\$0)
\$170,000,000	(\$1,008,731)	\$280,086	\$728,645	\$0	\$0	\$0	(\$0)
\$200,000,000	(\$1,008,731)	\$280,086	\$728,645	\$0	\$0	\$0	(\$0)

TABLE 4: THE RESIDENTIAL - GENERAL SERVICE REVENUE SHIFT

TOTAL MO	RESIDENTIAL	SMALL GS	COMBINED LGS&SPS	LARGE PRIMARY	LARGE TRANSMISSION	LIGHTING & MSD	SUM OF SHIFTS
\$40,000,000	\$0	\$0	\$0	\$0	\$0	\$ 0	\$0
\$60,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$79,999,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$80,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$0
\$80,001,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$ 0	\$0
\$100,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$0
\$120,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$ 0	\$0
\$140,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$0
\$149,999,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$ 0	\$0
\$150,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$0
\$150,001,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$0
\$170,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$ 0
\$200,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$0

TOTAL MO INCREASE	RESIDENTIAL	SMALL GS	COMBINED LGS&SPS	LARGE PRIMARY	LARGE TRANSMISSION	LIGHTING & MSD	SUM OF SHIFTS
\$40,000,000	\$0	\$0	\$0	\$ 0	\$0	\$0	\$0
\$60,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$79,999,000	\$0	· \$0	\$0	\$0	\$0	\$0	\$0
\$80,000,000	\$2,699,560	(\$749,565)	(\$1,949,996)	\$0	\$0	\$0	\$0
\$80,001,000	\$2,699,560	(\$749,557)	(\$1,949,975)	\$3	(\$31)	\$0	\$0 \$0
\$100,000,000	\$2,699,560	(\$592,363)	(\$1,541,034)	\$51,079	(\$626,426)	\$9,183	(\$0)
\$120,000,000	\$2,699,560	(\$435,161)	(\$1,132,073)	\$102,159	(\$1,252,852)	\$18,367	\$0
\$140,000,000	\$2,699,560	(\$277,959)	(\$723,112)	\$153,238	(\$1,879,277)	\$27,550	\$0
\$149,999,000	\$2,699,560	(\$199,366)	(\$518,651)	\$178,775	(\$2,192,459)	\$32,141	(\$0)
\$150,000,000	\$2,699,560	(\$199,358)	(\$518,631)	\$178,777	(\$2,192,490)	\$32,142	\$0
\$150,001,000	\$2,699,560	(\$199,358)	(\$518,631)	\$178,777	(\$2,192,490)	\$32,142	\$0
\$170,000,000	\$2,699,560	(\$199,358)	(\$518,631)	\$178,777	(\$2,192,490)	\$32,142	\$0
\$200,000,000	\$2,699,560	(\$199,358)	(\$518,631)	\$178,777	(\$2,192,490)	\$32,142	\$0

TABLE 5: THE SUM OF ALL THE REVENUE SHIFTS AMONG CLASSES

TABLE 6: TOTAL DOLLAR INCREASE (EQUAL PERCENTAGE INCREASE PLUS REVENUE SHIFTS) BY CLASS

TOTAL MO			COMBINED	LARGE	LARGE	LIGHTING
INCREASE	RESIDENTIAL	SMALL GS	LGS&SPS	PRIMARY	TRANSMISSION	& MSD
\$40,000,000	\$17,250,545	\$4,619,397	\$12,017,379	\$3,057,315	\$2,505,703	\$549,660
\$60,000,000	\$25,875,818	\$6,929,096	\$18,026,069	\$4,585,972	\$3,758,555	\$824,491
\$79,999,000	\$34,500,659	\$9,238,679	\$24,034,458	\$6,114,553	\$5,011,344	\$1,099,307
\$80,000,000	\$37,200,651	\$8,489,229	\$22,084,763	\$6,114,630	\$5,011,406	\$1,099,321
\$80,001,000	\$37,201,082	\$8,489,353	\$22,085,084	\$6,114,709	\$5,011,438	\$1,099,335
\$100,000,000	\$45,825,923	\$10,956,130	\$28,502,414	\$7,694,367	\$5,637,832	\$1,383,334
\$120,000,000	\$54,451,196	\$13,423,030	\$34,920,065	\$9,274,103	\$6,264,258	\$1,667,348
\$140,000,000	\$63,076,469	\$15,889,931	\$41,337,715	\$10,853,840	\$6,890,684	\$1,951,362
\$149,999,000	\$67,388,674	\$17,123,258	\$44,546,220	\$11,643,629	\$7,203,865	\$2,093,354
\$150,000,000	\$67,389,105	\$17,123,381	\$44,546,541	\$11,643,708	\$7,203,897	\$2,093,368
\$150,001,000	\$67,389,536	\$17,123,497	\$44,546,841	\$11,643,785	\$7,203,959	\$2,093,382
\$170,000,000	\$76,014,377	\$19,433,080	\$50,555,231	\$13,172,366	\$8,456,748	\$2,368,199
\$200,000,000	\$88,952,286	\$22,897,627	\$59,568,265	\$15,465,352	\$10,336,026	\$2,780,444

TABLE 7: TOTAL PERCENTAGE INCREASE BY CLASS

TOTAL MO			COMBINED	LARGE	LARGE	LIGHTING	SYSTEM AVG
INCREASE	RESIDENTIAL	SMALL GS	LGS&SPS	PRIMARY	TRANSMISSION	& MSD	INCREASE
\$40,000,000	1.92%	1.92%	1.92%	1.92%	1.92%	1.92%	1.92%
\$60,000,000	2.88%	2.88%	2.88%	2.88%	2.88%	2.88%	2.88%
\$79,999,000	3.83%	3.83%	3.83%	3.83%	3.83%	3.83%	3.83%
\$80,000,000	4.13%	3.52%	3.52%	3.83%	3.83%	3.83%	3.83%
\$80,001,000	4.13%	3.52%	3.52%	3.83%	3.83%	3.83%	3.83%
\$100,000,000	5.09%	4.55%	4.55%	4.82%	4.31%	4.82%	4.79%
\$120,000,000	6.05%	5.57%	5.57%	5.82%	4.79%	5.82%	5.75%
\$140,000,000	7.01%	6.59%	6.59%	6.81%	5.27%	6.81%	6.71%
\$149,999,000	7.49%	7.11%	7.11%	7.30%	5.51%	7.30%	7.19%
\$150,000,000	7.49%	7.11%	7.11%	7.30%	5.51%	7.30%	7.19%
\$150,001,000	7.49%	7.11%	7.11%	7.30%	5.51%	7.30%	7.19%
\$170,000,000	8.45%	8.06%	8.06%	8.26%	6.47%	8.26%	8.15%
\$200,000,000	9.89%	9.50%	9.50%	9.70%	7.91%	9.70%	9.59%

TABLE 8: PERCENTAGE POINT DIFFERENCE FROM SYSTEM AVERAGE

TOTAL MO			COMBINED	LARGE	LARGE	LIGHTING
INCREASE	RESIDENTIAL	SMALL GS	LGS&SPS	PRIMARY	TRANSMISSION	& MSD
\$40,000,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
\$60,000,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
\$79,999,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
\$80,000,000	0.30%	-0.31%	-0.31%	0.00%	0.00%	0.00%
\$80,001,000	0.30%	-0.31%	-0.31%	0.00%	0.00%	0.00%
\$100,000,000	0.30%	-0.25%	-0.25%	0.03%	-0.48%	0.03%
\$120,000,000	0.30%	-0.18%	-0.18%	0.06%	-0.96%	0.06%
\$140,000,000	0.30%	-0.12%	-0.12%	0.10%	-1.44%	0.10%
\$149,999,000	0.30%	-0.08%	-0.08%	0.11%	-1.68%	0.11%
\$150,000,000	0.30%	-0.08%	-0.08%	0.11%	-1.68%	0.11%
\$150,001,000	0.30%	-0.08%	-0.08%	0.11%	-1.68%	0.11%
\$170,000,000	0.30%	-0.08%	-0.08%	0.11%	-1.68%	0.11%
\$200,000,000	0.30%	-0.08%	-0.08%	0.11%	-1.68%	0.11%

TABLE 9: TOTAL CLASS INCREASE RELATIVE TO SYSTEM AVERAGE (SYSTEM AVERAGE = 1.00)

TOTAL MO INCREASE	RESIDENTIAL	SMALL GS	COMBINED LGS&SPS	LARGE PRIMARY	LARGE TRANSMISSION	LIGHTING & MSD	SYSTEM AVG INCREASE
\$40,000,000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
\$60,000,000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
\$79,999,000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
\$80,000,000	1.078	0.919	0.919	1.000	1.000	1.000	1.000
\$80,001,000	1.078	0.919	0.919	1.000	1.000	1.000	1.000
\$100,000,000	1.063	0.949	0.949	1.007	0.900	1.007	1.000
\$120,000,000	1.052	0.969	0.969	1.011	0.833	1.011	1.000
\$140,000,000	1.045	0.983	0.983	1.014	0.786	1.014	1.000
\$149,999,000	1.042	0.988	0.988	1.016	0.767	1.016	1.000
\$150,000,000	1.042	0.988	0.988	1.016	0.767	1.016	1.000
\$150,001,000	1.042	0.988	0.988	1.016	0.767	1.016	1.000
\$170,000,000	1.037	0.990	0.990	1.014	0.794	1.014	1.000
\$200,000,000	1.031	0.991	0.991	1.012	0.825	1.012	1.000