

In the Matter of the Applications of Westar)
Energy, Inc. and Kansas Gas and Electric)
Company for Approval to Make Certain) Docket No. 17-WSEE-147-RTS
Changes in their Charges for Electric)
Service)
)

DIRECT TESTIMONY

PREPARED BY

Lana J. Ellis, PhD

UTILITIES DIVISION

KANSAS CORPORATION COMMISSION

April 11, 2017

1 **I. STATEMENT OF QUALIFICATIONS**

2 **Q. What is your name and business address?**

3 A. Lana J. Ellis, Kansas Corporation Commission (Commission), 1500 S.W.
4 Arrowhead Road, Topeka, Kansas, 66604-4027.

5 **Q. What is your position at the Commission?**

6 A. I am employed as the Deputy Chief of the Economics and Rates Section of the
7 Utilities Division.

8 **Q. What is your educational background and professional experience?**

9 A. I have a B.S.B.A. from Missouri Western State University, an M.B.A. from
10 Rockhurst University, an M.A. and a Ph.D. from the University of Missouri-
11 Kansas City, and a J.D. from Seattle University. Before I began my employment
12 with the Commission in 2010, I worked for Sprint Corporation for nine years,
13 primarily in strategic planning and market research positions. In addition, I have
14 taught undergraduate and graduate business and economics courses as an adjunct
15 instructor at several universities.

16 **Q. Have you previously testified before the Commission?**

17 A. Yes. I provided testimony in Dockets No. 14-KCPE-272-RTS, 14-BHCG-502-
18 RTS, 15-WSEE-181-TAR, and 16-KCPE-446-TAR. I have also participated, as a
19 member of Commission Staff (Staff), in a number of other dockets.

20 **II. INTRODUCTION**

21 **Q. How is your testimony organized?**

22 A. First, I discuss the terms of the Docket No. 15-WSEE-115-RTS Stipulation and
23 Agreement (15-115 Settlement Agreement) as they relate to rate design. Second,

1 I discuss how Staff's rate design maintains Westar's basic rate structure while
2 adhering to the terms of the 15-115 Settlement Agreement. Finally, I conclude by
3 recommending the Commission accept Staff's rate design.

4 **III. ANALYSIS**

5 **Q. What was agreed to in the 15-115 Settlement Agreement in terms of rate**
6 **design for this Docket?**

7 **A.** The relevant portions of the 15-115 Settlement Agreement provide:

8 40. The Parties agree that the monthly basic service fee for all residential
9 classes except for the Peak Management Rate will be \$14.50. The monthly
10 basic service fee for the Peak Management Rate will be \$16.50. These
11 basic service fees will not be adjusted in the abbreviated rate case
12 discussed in paragraphs 35-36 [of the agreement].
13

14 43. The Parties agree that no part of the increase in revenue requirement in
15 the abbreviated rate case associated with investments in grid resiliency
16 will be allocated to the [large general service (LGS), industrial and large
17 power (ILP)], large tire manufacturer (LTM), interruptible service (IS)
18 classes, or the special contracts customers. That amount will be allocated
19 to the remaining customer classes in the abbreviated rate case based on the
20 same percentages [as the allocation of the 15-115 revenue requirement
21 increase] reflected in Appendix A¹ but adjusted proportionally to reflect
22 the exclusion of the LGS, ILP, LTM, IS, and special contracts classes
23 from the allocation.
24

25 44. The remainder of the increase in revenue requirement in the
26 abbreviated rate case will be allocated based on the same percentages [as
27 the allocation of the 15-115 revenue requirement increase] reflected in
28 Appendix A.²
29

30 **Q. Does your rate design comport with what was agreed to in the 15-115**
31 **Settlement Agreement in terms of rate design?**

32 **A.** Yes. Staff's rate design follows the principles set forth in the 15-115 Settlement
33 Agreement and does not conflict with any provision of that agreement.

¹ Appendix A is attached here as LJE Attachment A.

² Joint Motion to Approve Stipulation and Agreement, ¶¶40, 43-44 Docket No. 15-WSEE-115-RTS (Aug. 6, 2015).

1 The Residential basic service fees (customer charges) are left unadjusted in
2 Staff's rate design. The increase in revenue requirement associated with the grid
3 resiliency investments is not allocated to the Large General Service (LGS),
4 Industrial and Large Power (ILP), Large Tire Manufacturer (LTM), Interruptible
5 Service (IS), or the special contracts classes. Instead, that amount is allocated
6 only to the remaining customer classes based on the percentages reflected in
7 Appendix A of the 15-115 Settlement Agreement adjusted proportionally to
8 reflect the exclusion of the LGS, ILP, LTM, IS, and special contracts classes from
9 the allocation. The remainder of the increase in revenue requirement is allocated
10 to all customer classes proportionally based on the percentages agreed to in
11 Appendix A of the 15-115 Settlement Agreement.

12 **Q. Is your rate design proposal different than Westar's?**

13
14 **A. Yes.** My rate design allocates Staff's adjusted revenue requirement, instead of
15 Westar's proposed revenue requirement, to the customer classes. In terms of
16 methodology, Westar only increased the volumetric charges for each of the rate
17 classes. With respect to the residential class, Staff proportionately increased all of
18 the rate design components, excluding the customer charges. With respect to all
19 other classes, Staff proportionately increased all rate design components,
20 including the customer charges, demand charges, and volumetric charges.

21 **Q. Why is Staff's rate design methodology more appropriate?**

22
23 **A. In order to maintain the intra-class proportionality of existing rates, all rate design**
24 elements must be increased proportionally. Accordingly, Staff proportionately
25 increased all rate design components, except for the residential customer charges

1 as provided for in the 15-115 Settlement Agreement. Thus, Staff's rate design
2 maintains the intra-class proportionality of existing rates as much as possible
3 given the terms of the 15-115 Settlement Agreement.

4 **Q. Why should the intra-class proportionality of existing rates be maintained?**

5 A. The current rate structure was agreed to in the 15-115 Settlement Agreement and
6 found just and reasonable by the Commission's September 24, 2015, Order
7 Approving Stipulation and Agreement in Docket No. 15-WSEE-115-RTS. Since
8 the starting point of rate design is cost causation, changing the proportions of
9 relative fixed and variable rates would require a new class cost of service, which
10 are not typically done in abbreviated rate cases and was not performed by any
11 party of this Docket. Thus, the basic structure of the rate design needs to be
12 maintained, which can only be done with proportional increases in rates across the
13 board.

14 **Q. What is your recommendation?**

15 A. Because Staff's rate design maintains Westar's basic rate structure and comports
16 with the terms of the 15-115 Settlement Agreement, I recommend the
17 Commission accept Staff's rate design, which is attached here as Exhibit LJE-1
18 and filed separately in this Docket as Confidential Exhibit LJE-1.

19 **IV. CONCLUSION**

20 **Q. Does this conclude your testimony?**

21 A. Yes. Thank you.

LJE ATTACHMENT A

Docket No. 17-WSEE-147-RTS

| Customer Class | Percentage Increase from Net Revenue | | PTS | ECRR | ISR | Total |
|--------------------------------|---|-------------------------|-------------------|-------------------|------------------|--------------------|
| | Net Rev. Req. Increase | Requirement Increase | | | | |
| Residential | 40,820,133 | 5.3% | 13,384,578 | 28,383,230 | 508,806 | 83,096,748 |
| Small General Service | 12,866,000 | 3.2% | 7,573,856 | 15,231,324 | 291,521 | 35,962,701 |
| Medium General Service | 6,869,090 | 3.0% | 5,512,889 | 9,699,590 | 212,200 | 22,293,768 |
| HLF/LTM | 11,591,651 | 3.1% | 10,533,072 | 7,798,702 | 474,169 | 30,397,594 |
| Interruptible Contract Service | 141,714 | 5.0% | 82,403 | 124,282 | | 348,399 |
| Special Contracts | 1,337,493 | 2.3% | 2,319,137 | 1,910,745 | | 5,567,374 |
| Schools | 2,111,635 | 4.1% | 1,278,537 | 1,227,485 | 50,372 | 4,668,029 |
| Churches | 62,284 | 4.1% | 30,068 | 43,876 | | 136,227 |
| Lighting | 2,200,000 | 8.3% | 400,460 | 8,891 | 15,224 | 2,624,575 |
| Total | 78,000,000 | 4.08% | 41,115,000 | 64,428,125 | 1,552,292 | 185,095,416 |

EXHIBIT LJE-1

Docket No. 17-WSEE-147-RTS

PUBLIC VERSION

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| | kWh Billing Determinants | Current Revenue | Incr \$ - Original | | % Allocation of Settled Increase | EDGR Revenue | | | Total Increase | Proposed Revenue | Target Delta | Actual Delta |
|--------------------------------|-----------------------------|-----------------|--------------------|---------|--|-----------------------|---------------|------------------|---------------------|------------------|--------------|--------------|
| | | | Request w/o EDGR | | | Allocation % for EDGR | Increase | | | | | |
| Residential Customer Charge | 0 | \$105,638,461 | \$ - | 0.00% | 0.00% | 0.00% | - | \$ - | \$105,638,461 | 0% | 0% | |
| Residential Energy Charge | 6,360,393,365 | \$468,208,470 | \$ 8,366,345.31 | 51.93% | 51.93% | 62.39% | \$ 129,745.38 | \$ 8,496,090.69 | \$476,702,267 | 1.815% | 1.814% | |
| Residential Demand Charge | 0 | \$3,593,583 | \$ 64,213.19 | 0.40% | 0.40% | 0.48% | \$ 995.82 | \$ 65,209.01 | \$ 3,659,467.08 | 1.815% | 1.833% | |
| Residential | 6,360,393,365 | \$577,440,514 | \$ 8,430,558.49 | 52.33% | 52.33% | 62.87% | \$ 130,741.20 | \$ 8,561,299.70 | \$586,000,195 | 1.483% | 1.482% | |
| Small General Service | 3,599,120,222 | \$278,655,800 | \$ 2,657,207.55 | 16.49% | 16.49% | 19.82% | \$ 41,208.01 | \$ 2,698,415.56 | \$281,356,502 | 0.968% | 0.969% | |
| Medium General Service | 2,619,741,897 | \$156,502,824 | \$ 1,418,669.19 | 8.81% | 8.81% | 10.58% | \$ 22,000.74 | \$ 1,440,669.93 | \$157,943,770 | 0.921% | 0.921% | |
| High Load Factor (LGS/ILP) | 4,870,564,853 | \$215,257,447 | \$ 2,334,135.78 | 14.49% | 0.00% | 0.00% | \$ - | \$ 2,334,135.78 | \$217,592,161 | 1.084% | 1.085% | |
| Large Tire Manufacturer | 134,784,000 | \$4,895,398 | \$ 59,881.25 | 0.37% | 0.00% | 0.00% | \$ - | \$ 59,881.25 | \$4,955,287 | 1.223% | 1.223% | |
| Interruptible Contract Service | 39,158,310 | \$1,722,678 | \$ 29,268.16 | 0.18% | 0.00% | 0.00% | \$ - | \$ 29,268.16 | \$1,751,949 | 1.699% | 1.699% | |
| Special Contracts | 1,102,061,000 | \$24,626,647 | \$ 276,231.62 | 1.71% | 0.00% | 0.00% | \$ - | \$ 276,231.62 | \$24,902,825 | 1.122% | 1.121% | |
| Schools | 607,564,901 | \$35,115,960 | \$ 436,114.78 | 2.71% | 2.71% | 3.25% | \$ 6,763.27 | \$ 442,878.05 | \$35,556,833 | 1.261% | 1.255% | |
| Churches | 14,288,217 | \$1,136,382 | \$ 12,863.45 | 0.08% | 0.08% | 0.10% | \$ 199.49 | \$ 13,062.93 | \$1,149,444 | 1.150% | 1.149% | |
| Lighting | 190,299,764 | \$23,866,870 | \$ 454,364.73 | 2.82% | 2.82% | 3.39% | \$ 7,046.29 | \$ 461,411.02 | \$24,328,281 | 1.933% | 1.933% | |
| Total | 19,537,976,529 | \$1,319,220,519 | \$16,109,295 | 100.00% | 83% | 100% | \$207,959 | \$ 16,317,254.00 | \$ 1,335,537,246.42 | | | |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| RATE SCHEDULE | | | | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE |
|---------------------------------|--|----------------|-----------|----------------------|---------------|---------------|------------|------------------|------------------|------------------|------------------|
| RS | Residential Standard Service | | | | | | | | | | |
| | Energy | Block 1 | Winter | 1,904,369,083 | \$0.075360 | \$0.076727 | 0.001367 | \$143,513,254 | \$146,116,527 | \$2,603,273 | 1.81% |
| | | Block 2 | Winter | 847,438,337 | \$0.075360 | \$0.076727 | 0.001367 | \$63,862,953 | \$65,021,401 | \$1,158,448 | 1.81% |
| | | Block 3 | Winter | 945,385,577 | \$0.061600 | \$0.062718 | 0.001118 | \$58,235,758 | \$59,292,699 | \$1,056,941 | 1.81% |
| | | Block 1 | Summer | 1,007,921,475 | \$0.075360 | \$0.076727 | 0.001367 | \$75,956,962 | \$77,334,791 | \$1,377,829 | 1.81% |
| | | Block 2 | Summer | 626,237,408 | \$0.075360 | \$0.076727 | 0.001367 | \$47,193,251 | \$48,049,318 | \$856,067 | 1.81% |
| | | Block 3 | Summer | 864,173,475 | \$0.083127 | \$0.084635 | 0.001508 | \$71,836,148 | \$73,139,322 | \$1,303,174 | 1.81% |
| | | Total kWh | | 6,195,525,455 | | | | \$460,598,327 | \$468,954,057 | \$8,355,731 | |
| | Customer Charge | | | 7,141,989 | 14.50 | 14.50 | | \$ 103,558,841 | \$103,558,841 | \$0 | 0.00% |
| | Total Residential Standard Service Revenue | | | 6,195,525,455 | | | | \$564,157,167 | \$572,512,898 | \$8,355,731 | 1.48% |
| RS | Residential Restricted Conservation | | | | | | | | | | |
| | Energy | Block 1 | Total kWh | 9,819,997 | \$0.050920 | \$0.051844 | 0.000924 | \$500,034 | \$509,108 | \$9,074 | 1.81% |
| | Customer Charge | | | 37,313 | 14.50 | 14.50 | 0.00 | \$541,039 | \$541,039 | \$0 | 0.00% |
| | Total Residential Restricted Conservation | | | 9,819,997 | | | | \$1,041,073 | \$1,050,146 | \$9,074 | 0.87% |
| RS | Residential Peak Management | | | | | | | | | | |
| | Energy | Block 1 | Total kWh | 154,729,151 | \$0.045750 | \$0.046580 | 0.000830 | \$7,078,859 | \$7,207,284 | \$128,425 | 1.81% |
| | Demand | | Winter | 757,936 | \$2.09 | \$2.13 | 0.04 | \$1,584,086 | \$1,614,404 | \$30,317 | 1.91% |
| | Demand | | Summer | 296,386 | \$6.78 | \$6.90 | 0.12 | \$2,009,497 | \$2,045,063 | \$35,566 | 1.77% |
| | Customer Charge | | | 93,011 | 16.50 | 16.50 | 0.00 | \$1,534,682 | \$1,534,682 | \$0 | 0.00% |
| | Total Residential Peak Management | | | 154,729,151 | | | | \$12,207,123 | \$12,401,432 | \$194,309 | 1.59% |
| Residential Time of Use Service | Energy | | | | | | | | | | |
| | | Block 1 | Winter | 151,332 | \$0.089793 | \$0.091422 | 0.00 | \$ 13,589 | \$ 13,835 | \$247 | 1.81% |
| | | Block 2 | Winter | 717 | \$0.089793 | \$0.091422 | 0.00 | \$ 64 | \$ 66 | \$1 | 1.81% |
| | | Block 3 | Winter | 52,771 | \$0.055528 | \$0.056536 | 0.00 | \$ 2,930 | \$ 2,983 | \$53 | 1.82% |
| | Energy | Block 1 | Summer | 79,214 | \$0.152310 | \$0.155074 | 0.00 | \$ 12,065 | \$ 12,284 | \$219 | 1.81% |
| | | Block 2 | Summer | 6,724 | \$0.105654 | \$0.107571 | 0.00 | \$ 710 | \$ 723 | \$13 | 1.81% |
| | | Block 3 | Summer | 28,004 | \$0.067548 | \$0.068774 | 0.00 | \$ 1,892 | \$ 1,926 | \$34 | 1.82% |
| | Customer Charge | | | 269 | 14.50 | 14.50 | \$ - | \$ 3,901 | \$ 3,901 | \$ - | 0.00% |
| | Total Residential Time of Use | | | 318,762 | | | | \$ 35,151 | \$ 35,718 | \$ 567 | 1.61% |
| | Total Residential Service | | | Total kWh | 6,360,393,365 | | | | \$577,440,514 | \$586,000,195 | \$8,559,680 |
| | | Billing Demand | 1,054,322 | | | | | | | | |
| | | Customer Bills | 7,272,313 | | | | | | | | |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| RATE SCHEDULE | | | | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE |
|---|---|---------|-----------|-------------------------|------------------|------------------|------------|---------------------|---------------------|---------------------|---------------------|
| SGS | Small General Service | | | | | | | | | | |
| | Energy | Block 1 | | 692,712,366 | \$0.069699 | \$0.070383 | 0.000684 | \$48,281,359 | \$48,755,174 | \$473,815 | 0.98% |
| | | Block 2 | | 2,830,900,553 | \$0.050723 | \$0.051220 | 0.000497 | \$143,591,769 | \$144,998,726 | \$1,406,958 | 0.98% |
| | | | Total kWh | 3,523,612,919 | | | | \$191,873,128 | \$193,753,901 | \$1,880,773 | 0.98% |
| | Demand | Block 1 | Winter | 1,907,279 | \$0.00 | \$0.00 | 0.00 | \$0 | \$0 | \$0 | |
| | | Block 2 | Winter | 6,261,374 | \$4.38 | \$4.42 | 0.04 | \$27,424,818 | \$27,675,273 | \$250,455 | 0.91% |
| | Demand | Block 1 | Summer | 992,588 | \$0.00 | \$0.00 | | \$0 | \$0 | \$0 | |
| | | Block 2 | Summer | 3,789,962 | \$8.47 | \$8.55 | 0.08 | \$32,100,978 | \$32,404,175 | \$303,197 | 0.94% |
| | Customer Charge | | | 1,007,206 | \$22.50 | \$22.72 | 0.22 | \$22,662,135 | \$22,883,720 | \$221,585 | 0.98% |
| | Total Small General Service | | | 3,523,612,919 | | | | \$274,061,059 | \$276,717,069 | \$2,656,010 | 0.97% |
| SGS | Small General Service - Recreational Lighting | | | | | | | | | | |
| | Energy | Block 1 | Total kWh | 8,880,478 | \$0.088250 | \$0.089117 | 0.000867 | \$783,702 | \$791,402 | \$7,699 | 0.98% |
| | Customer Charge | | | 5,583 | \$22.50 | \$22.72 | 0.22 | \$125,618 | \$126,846 | \$1,228 | 0.98% |
| Total Small General Service - Recreational Lighting | | | 8,880,478 | | | | \$909,320 | \$918,247 | \$8,928 | 0.98% | |
| SGS | Small General Service - Unmetered | | | | | | | | | | |
| | Energy | Block 1 | | 155,974 | \$0.069699 | \$0.070383 | 0.000684 | \$10,871 | \$10,978 | \$107 | 0.98% |
| | | Block 2 | | 105,824 | \$0.050723 | \$0.051221 | 0.000498 | \$5,368 | \$5,420 | \$53 | 0.98% |
| | | | Total kWh | 261,798 | | | | \$16,239 | \$16,398 | \$159 | 0.98% |
| | Customer Charge | | | - | \$22.50 | \$22.72 | 0.22 | \$0 | \$0 | \$0 | 0.98% |
| | Total Small General Service - Unmetered | | | 261,798 | | | | \$16,239 | \$16,398 | \$159 | 0.98% |
| SGS | Small General Service - Church Option | | | | | | | | | | |
| | Energy | Block 1 | | 47,399 | \$0.069699 | \$0.070383 | 0.000684 | \$3,304 | \$3,336 | \$32 | 0.98% |
| | | Block 2 | | 77,691 | \$0.050723 | \$0.051221 | 0.000498 | \$3,941 | \$3,979 | \$39 | 0.98% |
| | | | Total kWh | 125,090 | | | | \$7,244 | \$7,315 | \$71 | 0.98% |
| | Demand | Block 1 | Winter | 208 | \$0.00 | \$0.00 | | \$0 | \$0 | \$0 | |
| | | Block 2 | Winter | 1,687 | \$1.36 | \$1.37 | 0.010000 | \$2,294 | \$2,311 | \$17 | 0.74% |
| | Demand | Block 1 | Summer | 84 | \$0.00 | \$0.00 | | \$0 | \$0 | \$0 | |
| | | Block 2 | Summer | 329 | \$2.47 | \$2.49 | 0.020000 | \$813 | \$819 | \$7 | 0.81% |
| | Customer Charge | | | 78 | \$22.50 | \$22.72 | 0.220000 | \$1,755 | \$1,772 | \$17 | 0.98% |
| | Total Small General Service - Church Option | | | 125,090 | | | | \$12,106 | \$12,218 | \$112 | 0.92% |
| ST | Short Term Service | | | | | | | | | | |
| | Energy | Block 1 | Total kWh | 6,801,481 | \$0.069699 | \$0.070383 | 0.000684 | \$474,056 | \$478,709 | \$4,652 | 0.98% |
| | Demand | Block 1 | Winter | 3,759 | \$0.00 | \$0.00 | | \$0 | \$0 | \$0 | |
| | | Block 2 | Winter | 9,177 | \$4.38 | \$4.42 | 0.040000 | \$40,195 | \$40,562 | \$367 | 0.91% |
| | Demand | Block 1 | Summer | 2,080 | \$0.00 | \$0.00 | | \$0 | \$0 | \$0 | |
| | | Block 2 | Summer | 5,163 | \$8.47 | \$8.55 | 0.080000 | \$43,731 | \$44,144 | \$413 | 0.94% |
| Customer Charge | | | 14,080 | \$22.50 | \$22.72 | 0.220000 | \$316,800 | \$319,898 | \$3,098 | 0.98% | |
| Total Short Term Service | | | 6,801,481 | | | | \$874,782 | \$883,312 | \$8,530 | 0.98% | |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| RATE SCHEDULE | | | | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE |
|-----------------------------|--|----------|-----------|-------------------------|------------------|------------------|------------|---------------------|---------------------|---------------------|---------------------|
| DOR | Dedicated Off-Peak Rider | | | | | | | | | | |
| | Energy | Block 1 | | 74,166 | \$0.047931 | \$0.048401 | 0.000470 | \$3,555 | \$3,590 | \$35 | 0.98% |
| | | Block 2 | | 91,810 | \$0.038681 | \$0.039061 | 0.000380 | \$3,551 | \$3,586 | \$35 | 0.98% |
| | | Block 3 | | 5,271 | \$0.019621 | \$0.019813 | 0.000192 | \$103 | \$104 | \$1 | 0.98% |
| | | | Total kWh | 171,247 | | | | 7,210 | 7,280 | 71 | 0.98% |
| | Customer Charge | | | 24 | \$22.50 | \$22.72 | 0.220000 | \$540 | \$545 | \$5 | 0.98% |
| | Total Dedicated Off-Peak Rider | | | 171,247 | | | | \$7,750 | \$7,826 | \$76 | 0.98% |
| RPS | Restricted Peak Service (Off-Peak) | | | | | | | | | | |
| | Energy | Block 1 | Total kWh | 18,343,970 | \$0.020350 | \$0.020549 | 0.000199 | \$373,300 | \$376,950 | \$3,650 | 0.98% |
| | Demand | Peak | | 6,000 | \$11.94 | \$12.06 | 0.120000 | \$71,640 | \$72,360 | \$720 | 1.01% |
| | Demand | Off-Peak | | 108,434 | \$2.35 | \$2.37 | 0.020000 | \$254,820 | \$256,989 | \$2,169 | 0.85% |
| | Customer Charge | | | 108 | \$100.00 | \$100.97 | 0.970000 | \$10,800 | \$10,905 | \$105 | 0.97% |
| | Total Restricted Peak Service (Off-Peak) | | | 18,343,970 | | | | \$710,560 | \$717,204 | \$6,644 | 0.94% |
| GSS | Generation Substitution Service | | | | | | | | | | |
| | Energy | Block 1 | | 14,789,946 | \$0.056536 | \$0.057090 | 0.000554 | \$836,164 | \$844,358 | \$8,194 | 0.98% |
| | | Block 2 | | 17,414,919 | \$0.048491 | \$0.048967 | 0.000476 | \$844,467 | \$852,756 | \$8,290 | 0.98% |
| | | Block 3 | | 8,718,374 | \$0.041484 | \$0.041891 | 0.000407 | \$361,673 | \$365,221 | \$3,548 | 0.98% |
| | | | Total kWh | 40,923,239 | | | | 2,042,304 | 2,062,336 | 20,032 | 0.98% |
| | Customer Charge | | | 542 | \$40.00 | \$40.39 | 0.390000 | \$21,680 | \$21,891 | \$211 | 0.98% |
| | Total Generation Substitution Service | | | 40,923,239 | | | | \$2,063,984 | \$2,084,227 | \$20,243 | 0.98% |
| Total Small General Service | | | | Total kWh | 3,599,120,222 | | | \$278,655,800 | \$281,356,502 | \$2,700,702 | 0.97% |
| | | | | Billing Demand | 13,088,124 | | | | | | |
| | | | | Customer Bills | 1,027,621 | | | | | | |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| RATE SCHEDULE | | | | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE | |
|------------------------------|---------|--------|-----------|----------------------|---------------|---------------|------------|------------------|------------------|------------------|------------------|-------|
| Medium General Service | | | | | | | | | | | | |
| Energy | Block 1 | Winter | | 1,649,760,185 | \$0.014627 | \$0.014762 | 0.000135 | \$24,131,042 | \$24,353,760 | \$222,718 | 0.92% | |
| | Block 2 | Summer | | 969,981,712 | \$0.019261 | \$0.019438 | 0.000177 | \$18,682,818 | \$18,854,505 | \$171,687 | 0.92% | |
| | | | Total kWh | 2,619,741,897 | | | | \$42,813,860 | \$43,208,264 | \$394,404 | 0.92% | |
| | | | | | | | | | | | | |
| Demand | | | | | 7,179,161 | \$15.62 | \$15.76 | \$112,104,064 | \$113,136,025 | \$1,031,961 | 0.92% | |
| Customer Charge | | | | | 15,849 | \$100.00 | \$100.92 | 0.920000 | \$1,584,900 | \$1,599,481 | \$14,581 | 0.92% |
| Total Medium General Service | | | | | | | | \$156,502,824 | \$157,943,770 | \$1,440,947 | 0.92% | |
| Total Medium General Service | | | | Total kWh | 2,619,741,897 | | | \$156,502,824 | \$157,943,770 | \$1,440,947 | 0.92% | |
| | | | | Billing Demand | 7,179,161 | | | | | | | |
| | | | | Customer Bills | 15,849 | | | | | | | |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| RATE SCHEDULE | | | | | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE | |
|---------------|-----------------------------------|---|-----------|-------------------|-------------------------|------------------|------------------|------------|---------------------|---------------------|---------------------|---------------------|-------|
| RITODS | Religious Institution Time of Day | | | | | | | | | | | | |
| | Energy | Block 1 | Winter | First 10 kWh | 22,803 | \$2,056,591 | \$2,080,232 | 0.023641 | \$46,896 | \$47,436 | \$539 | 1.15% | |
| | | Block 2 | | Weekday Use | 2,961,154 | \$0.076503 | \$0.077382 | 0.000879 | \$226,537 | \$229,140 | \$2,603 | 1.15% | |
| | | Block 3 | | Weekday Evening | 242,294 | \$0.076503 | \$0.077382 | 0.000879 | \$18,536 | \$18,749 | \$213 | 1.15% | |
| | | Block 4 | | Night and Weekend | 4,767,552 | \$0.051571 | \$0.052164 | 0.000593 | \$245,867 | \$248,695 | \$2,827 | 1.15% | |
| | | Block 1 | Summer | First 10 kWh | 10,454 | \$2,056,591 | \$2,080,232 | 0.023641 | \$21,500 | \$21,747 | \$247 | 1.15% | |
| | | Block 2 | | Weekday Use | 1,637,800 | \$0.189576 | \$0.191755 | 0.002179 | \$310,488 | \$314,056 | \$3,569 | 1.15% | |
| | | Block 3 | | Weekday Evening | 1,080,946 | \$0.076503 | \$0.077382 | 0.000879 | \$82,696 | \$83,646 | \$950 | 1.15% | |
| | | Block 4 | | Night and Weekend | 3,565,214 | \$0.051571 | \$0.052164 | 0.000593 | \$183,862 | \$185,976 | \$2,114 | 1.15% | |
| | | Total kWh | | | 14,288,217 | | | | \$ 1,136,382 | \$ 1,149,444 | \$ 13,062 | 1.15% | |
| | | Total Religious Institution Time of Day | | | | 14,288,217 | | | | \$1,136,382 | \$1,149,444 | \$13,062 | 1.15% |
| | REIS | Restricted Educational Institution Service | | | | | | | | | | | |
| | | Energy | Block 1 | Winter | | 106,995,059 | \$0.057049 | \$0.057768 | 0.000719 | \$6,103,961 | \$6,180,891 | \$76,929 | 1.26% |
| | | | Block 2 | Winter | | 47,995,000 | \$0.044872 | \$0.045438 | 0.000566 | \$2,153,632 | \$2,180,797 | \$27,165 | 1.26% |
| | | Block 3 | Winter | | 34,683,469 | \$0.032540 | \$0.032950 | 0.000410 | \$1,128,600 | \$1,142,820 | \$14,220 | 1.26% | |
| | | Block 1 | Summer | | 56,520,558 | \$0.057049 | \$0.057768 | 0.000719 | \$3,224,441 | \$3,265,080 | \$40,638 | 1.26% | |
| | | Block 2 | Summer | | 30,415,998 | \$0.064483 | \$0.065296 | 0.000813 | \$1,961,315 | \$1,986,043 | \$24,728 | 1.26% | |
| | | Block 3 | Summer | | 24,519,939 | \$0.066531 | \$0.067370 | 0.000839 | \$1,631,336 | \$1,651,908 | \$20,572 | 1.26% | |
| | | Total kWh | | | 301,130,023 | | | | \$ 16,203,285 | \$ 16,407,539 | \$ 204,254 | 1.26% | |
| | | Customer Charge | | | | 6,783 | \$22.50 | \$22.78 | 0.280000 | \$152,618 | \$154,517 | \$1,899 | 1.24% |
| | | Total Restricted Educational Institution Service | | | | | | | | \$16,355,903 | \$16,562,055 | \$206,153 | 1.26% |
| R-TESC | | Restricted Total Electric - School and Church | | | | | | | | | | | |
| | | Energy | Block 1 | Winter | | 9,837,569 | \$0.056655 | \$0.057370 | 0.000715 | \$557,347 | \$564,381 | \$7,034 | 1.26% |
| | | | Block 2 | Summer | | 3,971,284 | \$0.068848 | \$0.069716 | 0.000868 | \$273,414 | \$276,861 | \$3,447 | 1.26% |
| | | | Total kWh | | | 13,808,853 | | | | \$830,761 | \$841,242 | \$10,481 | 1.26% |
| | | Customer Charge | | | | | | | | \$830,761 | \$841,242 | \$10,481 | 1.26% |
| | | Total Restricted Total Electric - School and Church | | | | | | | | \$830,761 | \$841,242 | \$10,481 | 1.26% |
| PS-R | Restricted Service to Schools | | | | | | | | | | | | |
| | Energy | Block 1 | | | 77,097,885 | \$0.073795 | \$0.074726 | 0.000931 | \$5,689,438 | \$5,761,217 | \$71,778 | 1.26% | |
| | | Block 2 | | | 99,042,016 | \$0.054575 | \$0.055263 | 0.000688 | \$5,405,218 | \$5,473,359 | \$68,141 | 1.26% | |
| | | Separately Metered Heat | | | 11,444,418 | \$0.054575 | \$0.055263 | 0.000688 | \$624,579 | \$632,453 | \$7,874 | 1.26% | |
| | | Total kWh | | | 187,584,319 | | | | 11,719,236 | 11,867,028 | 147,793 | 1.26% | |
| | | Customer Charge | | | | 8,571 | \$22.50 | \$22.78 | 0.280000 | \$192,848 | \$195,247 | \$2,400 | 1.24% |
| | | Total Restricted Service to Schools | | | | | | | | \$11,912,083 | \$12,062,276 | \$150,193 | 1.26% |
| | SES | Standard Educational Service | | | | | | | | | | | |
| | | Energy | Total kWh | | | 105,041,726 | \$0.026813 | \$0.027151 | 0.000338 | \$2,816,484 | \$2,851,988 | \$35,504 | 1.26% |
| | | Demand | | | | 377,666 | \$8.31 | \$8.41 | 0.100000 | \$3,138,404 | \$3,176,171 | \$37,767 | 1.20% |
| | | Customer Charge | | | 2,770 | \$22.50 | \$22.78 | 0.280000 | \$62,325 | \$63,101 | \$776 | 1.24% | |
| | | Total Standard Educational Service | | | 105,041,726 | | | | \$6,017,213 | \$6,091,260 | \$74,046 | 1.23% | |
| CLASS | Total Schools and Church | | | | Total kWh | 621,853,118 | | | \$36,252,342 | \$36,706,277 | \$453,935 | 1.25% | |
| | | | | Billing Demand | 377,666 | | | | | | | | |
| | | | | Customer Bills | 11,341 | | | | | | | | |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| RATE SCHEDULE | | | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE |
|--|------------------------|----------------------|-------------------------|------------------|------------------|------------|---------------------|---------------------|---------------------|---------------------|
| High Load Factor - North | | | | | | | | | | |
| Energy | Block 1 | Total kWh | 2,459,287,900 | \$0.015390 | \$0.015557 | 0.000167 | \$37,848,441 | \$38,259,142 | \$410,701 | 1.09% |
| Demand | Secondary Distribution | | 1,613,553 | \$15.103727 | \$15.267504 | 0.163777 | \$24,370,664 | \$24,634,927 | \$264,263 | 1.08% |
| | | Primary Distribution | 2,224,234 | \$14.103727 | \$14.256660 | 0.152933 | \$31,369,989 | \$31,710,148 | \$340,159 | 1.08% |
| | | Transmission | 1,284,822 | \$12.233727 | \$12.366383 | 0.132656 | \$15,718,162 | \$15,888,601 | \$170,439 | 1.08% |
| | | | | | | | \$71,458,815 | \$72,233,676 | \$774,861 | 1.08% |
| Customer Charge | | | 1,067 | \$250.00 | \$252.71 | | \$266,750 | \$269,642 | | |
| Total High Load Factor North | | | 2,459,287,900 | | | | \$109,574,006 | \$110,762,459 | \$1,185,562 | 1.08% |
| High Load Factor - South | | | | | | | | | | |
| Energy | Block 1 | Total kWh | 2,411,276,953 | \$0.015390 | \$0.015557 | 0.000167 | \$37,109,552 | \$37,512,236 | \$402,683 | 1.09% |
| Demand | Secondary Distribution | | 583,022 | \$15.103727 | \$15.267504 | 0.163777 | \$8,805,805 | \$8,901,291 | \$95,486 | 1.08% |
| | | Primary Distribution | 3,214,982 | \$14.103727 | \$14.256660 | 0.152933 | \$45,343,228 | \$45,834,905 | \$491,677 | 1.08% |
| | | Transmission | 1,170,441 | \$12.233727 | \$12.366383 | 0.132656 | \$14,318,856 | \$14,474,122 | \$155,266 | 1.08% |
| | | | | | | | \$68,467,889 | \$69,210,318 | \$742,428 | 1.08% |
| Customer Charge | | | 424 | \$250.00 | \$252.71 | | \$106,000 | \$107,149 | | |
| Total High Load Factor South | | | 2,411,276,953 | | | | \$105,683,442 | \$106,829,702 | \$1,145,112 | 1.08% |
| Total High Load Factor (North and South) | | | 4,870,564,853 | | | | \$215,257,447 | \$217,592,161 | \$2,330,674 | 1.08% |
| Large Tire Manufacturing | | | | | | | | | | |
| Excess Energy | | | 30,650,800 | \$0.018129 | \$0.018351 | 0.000222 | \$555,668 | \$562,473 | \$6,804 | 1.22% |
| | Excess Energy | | 104,133,200 | | | | \$0 | \$0 | \$0 | |
| | Total kWh | | 134,784,000 | | | | \$555,668 | \$562,473 | \$6,804 | 1.22% |
| Base Demand with Energy per KVA | | | 260,333 | \$16.495000 | \$16.696769 | 0.201769 | \$4,294,193 | \$4,346,720 | \$52,527 | 1.22% |
| Facility Charge | | | | | | | \$45,537 | \$46,094 | \$557 | 1.22% |
| Total Large Tire Manufacturing | | | 134,784,000 | | | | \$4,895,398 | \$4,955,287 | \$59,889 | 1.22% |
| Interruptible Contract Service | | | | | | | | | | |
| Energy | | Total kWh | 39,158,310 | \$0.043962 | \$0.044709 | 0.000747 | \$1,721,478 | \$1,750,729 | \$29,251 | 1.70% |
| Customer Charge | | | 12 | \$100.00 | \$101.70 | 1.700000 | \$1,200 | \$1,220 | \$20 | 1.70% |
| Total Interruptible Contract Service | | | 39,158,310 | | | | \$1,722,678 | \$1,751,949 | \$29,272 | 1.70% |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

| RATE SCHEDULE | | | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE |
|-----------------------------|---------|--------|-------------------------|------------------|------------------|------------|---------------------|---------------------|---------------------|---------------------|
| Special Contract (a) | | | | | | | | | | |
| Energy | Block 1 | Winter | | | | | | | | |
| | Block 2 | Winter | | | | | | | | |
| | Block 3 | Winter | | | | | | | | |
| | Block 4 | Winter | | | | | | | | |
| | Block 1 | Summer | | | | | | | | |
| | Block 2 | Summer | | | | | | | | |
| | Block 3 | Summer | | | | | | | | |
| | Block 4 | Summer | | | | | | | | |
| Total kWh | | | | | | | | | | |
| Total Contract (a) | | | | | | | | | | |
| Special Contract (b) | | | | | | | | | | |
| Winter - kWh | Block 1 | | | | | | | | | |
| | Block 2 | | | | | | | | | |
| | Block 3 | | | | | | | | | |
| | Block 4 | | | | | | | | | |
| Summer - kWh | Block 1 | | | | | | | | | |
| | Block 2 | | | | | | | | | |
| | Block 4 | | | | | | | | | |
| Total kWh | | | | | | | | | | |
| Demand - kW | | | | | | | | | | |
| Customer Charge | | | | | | | | | | |
| Total Contract (b) | | | | | | | | | | |
| Total HLF Class | | | Total kWh | 6,146,568,163 | | | \$246,502,170 | \$249,202,222 | \$2,696,012 | 1.09% |
| | | | Billing Demand | 10,351,387 | | | | | | |
| | | | Customer Bills | | | | | | | |

WESTAR ENERGY, INC.
PROOF OF REVENUE
17-WSEE-147-RTS

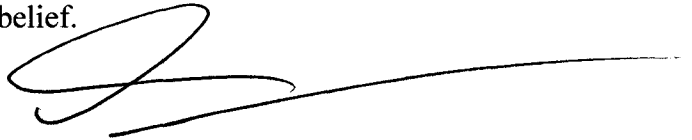
CLASS

| RATE SCHEDULE | BILLING DETERMINANTS | EXISTING RATE | PROPOSED RATE | DIFFERENCE | EXISTING REVENUE | PROPOSED REVENUE | REVENUE INCREASE | PERCENT INCREASE |
|-------------------------------|---|------------------|------------------|------------|---------------------|---------------------|---------------------|---------------------|
| Security Area Lighting | | | | | | | | |
| Energy | 105,093,474 | | | | \$10,910,358 | \$11,121,285 | \$210,927 | 1.93% |
| Minimum Bill | | | | | \$348,726 | \$355,468 | \$6,742 | 1.93% |
| | | | | | \$11,259,084 | \$11,476,752 | \$217,668 | 1.93% |
| Street Lighting | | | | | | | | |
| Energy | 81,308,434 | | | | \$11,910,050 | \$12,140,303 | \$230,253 | 1.93% |
| Minimum Bill | | | | | \$315,846 | \$321,952 | \$6,106 | 1.93% |
| | | | | | \$12,225,896 | \$12,462,256 | \$236,360 | 1.93% |
| Traffic Signals | | | | | | | | |
| Energy | 3,897,856 | \$0.094000 | \$0.095817 | | \$365,398 | \$373,482 | \$7,083 | 1.93% |
| Minimum Bill | | | | | \$15,491 | \$15,791 | \$299 | 1.93% |
| | | | | | \$381,890 | \$389,273 | \$7,383 | 1.93% |
| Lighting Class | Total kWh Billing Demand Customer Bills | 190,299,764 | | | \$23,866,870 | \$24,328,281 | \$461,411 | 1.93% |

VERIFICATION

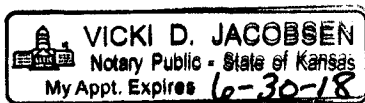
STATE OF KANSAS)
) ss.
COUNTY OF SHAWNEE)

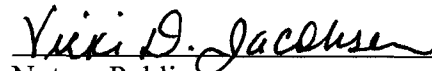
Lana Ellis, being duly sworn upon her oath deposes and states that she is the Deputy Chief of Economics and Rates for the Utilities Division of the State Corporation Commission of the State of Kansas; that she has read and is familiar with the foregoing *Staff Direct Testimony*, and that the statements contained therein are true and correct to the best of her knowledge, information and belief.



Lana Ellis
Deputy Chief of Economics and Rates
Kansas Corporation Commission
of the State of Kansas

SUBSCRIBED AND SWORN to before me this 11th day of April, 2017.




Notary Public

My Appointment Expires: June 30, 2018

CERTIFICATE OF SERVICE

17-WSEE-147-RTS

I, the undersigned, certify that a true and correct copy of the above and foregoing Direct Testimony of Lana Ellis on Behalf of the Kansas Corporation Commission was served via electronic service this 11th day of April, 2017, to the following:

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CERTIFICATE OF SERVICE

17-WSEE-147-RTS

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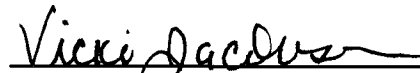
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Vicki Jacobsen