

MATHIS, RIGGS & PRATHER, P.S.C.

ATTORNEYS AT LAW 500 MAIN STREET, STE. 5 SHELBYVILLE, KENTUCKY 40065 MAR 2 1 2007

PUBLIC SERVICE COMMISSION

C. LEWIS MATHIS, JR. T. SHERMAN RIGGS DONALD. T. PRATHER **NATHAN T. RIGGS**

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March 21, 2007

HAND DELIVERED

Ms. Elizabeth O'Donnell **Executive Director** Public Service Commission 211 Sower Boulevard Frankfort, KY 40602

Re:

PSC Case No. 2006-00487

Dear Ms. O'Donnell:

Please find enclosed for filing with the Public Service Commission in the abovereferenced case an original and five (5) copies of the Responses of Shelby Energy Cooperative, Inc., to the Commission Staff's First Data Requests dated March 12, 2007.

Yours truly,

MATHIS, RIGGS & PRATHER, P.S.C.

Donald T. Prather

Attorney for Shelby Energy Cooperative, Inc.

Enc.

dtp/letters/rate case as a second of the second of t

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

| APPLICATION OF SHELBY ENERGY |) | |
|--------------------------------------|---|------------|
| COOPERATIVE, INC. TO PASS-THROUGH AN |) | CASE NO. |
| INCREASE OF ITS WHOLESALE POWER |) | 2006-00487 |
| SUPPLIER PURSUANT TO KRS 278.455(2) |) | • |

RESPONSES TO COMMISSION STAFF'S FIRST DATA REQUEST TO SHELBY ENERGY COOPERATIVE, INC.

DATED MARCH 12, 2007

SHELBY ENERGY COOPERATIVE, INC.

PSC CASE NO. 2006-00487

COMMISSION STAFF'S FIRST DATA REQUEST DATED 3/12/07

Shelby Energy Cooperative, Inc. ("Shelby") hereby submits responses to the Commission Staff's First Data Request dated March 12, 2007. Each response with its associated supportive reference materials is individually tabbed.

SHELBY ENERGY COOPERATIVE, INC. PSC CASE NO. 2006-00487 FIRST DATA REQUEST RESPONSE

COMMISSION STAFF'S FIRST DATA REQUEST DATED 3/12/07

REQUEST 1

RESPONSIBLE PERSON:

William A. Bosta

COMPANY:

Shelby Energy Cooperative, Inc.

Request 1.

Refer to the Application, Exhibits II and III.

Request 1a. Provide all workpapers, calculations, assumptions, and other documentation used to determine the proposed rates and the billing analysis.

Response 1a. Attached is information from EKPC's Exhibit I, Pages 3-5, which shows the present and proposed rates and revenues by wholesale customer class for service to Shelby.

As indicated in Mr. Bosta's testimony, the demand charges for retail industrial rates mirror EKPC's proposed rates for Schedules B and C, as applicable.

The increase applicable to all other classes was based on taking the total increase to the member system, subtracting the retail industrial class increase and then dividing that amount by the kWh for all other classes. This resulted in a per unit (cents/kWh) energy cost increase that was applied to all other classes. The only exceptions are Electric Thermal Storage (ETS) Rate Schedule ETS, Rates 9 and 29, which were designed based on a charge of 60 percent of the energy rate of the related rate class.

See the response to Request 1b for the calculations to determine the proposed rates.

Request 1b. Provide in electronic format the Excel spreadsheets used to determine the proposed rates and billing analysis, with all formulas intact.

Response 1b. Based on discussion with the Commission Staff on March 19, 2007, attached are two (2) copies of the requested information on CD-ROM.

| | | | | • | | | | | | | • | |
|-----------------------------------|--|---|--|-----------|--|--|-------------|------------|--|-------------|--|-------------|
| | Adjustments Adjustments Adjustments 1,627,323 1,627,323 1,073,046 | 3-5°C000*50 | 8.693 3.201 31,344 | 43,237 | | Adjustment 144,759 19,505 104,424 104,796 500,175 | 395,265 | 155,420 | 011,171 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2,273,652 | 131,186 17,503 | 302,695 |
| | | 750'401'750 | 82,014 27,539 272,866 | 382,819 | | Revenue 1, 123, 413 273,301 1, 137,868 1, 1089,205 6, 129,124 6, 129,124 | 4,415,196 | 1,806,138 | 1,900,905 0 0 0 0 0 0 0 0 8,307,482 | 26,620,634 | 1,449,037 | 3,420,921 |
| | Proposed Total Revenue 20,177,5429 (1770,429 (1773,429 (1773,429 (1733,429 (1773),429 (1733,479 | SS*1770'07* | Total Revenue 90,707 31,140 394,210 | 426,056 | į | 1000 1,756,172 232,807 1,242,232 1,191,002 6,629,299 | 4,810,462 | 1,961,558 | 2,072,016 8,988,679 | 28,894,286 | Total Revental 1,580,222 2,443,394 | 3,723,816 |
| | Energy-OFF Revenue (4.1),743 (4.3), | | Energy-OFF Revenue 36,502 14,907 142,717 | 194,125 | i | Energy (277,887 155,912 821,075 780,030 4,853,036 | 3,256,633 | 1,365,236 | 1,352,658 | 19,944,370 | Energy Sevenue 1,077,026 1,797,245 | 2,874,370 |
| | ### ### ############################## | 176,574,854 | Energy-ON E Revenue 43,013 14,011 | 198,305 | . 4 | Revenue 17,583 17,583 82,231 82,231 35,535 228,682 | 149,048 | ٥ | 251,340 | 902,088 | intern Excess Dem Reventle - 186 319,605 | 319,991 |
| | | 111,593,148 | Demand Revenue 11,192 2,221 20,213 | 33,626 | | Revenue 530,712 68,672 338,985 575,435 1,747,581 | 1,404,783 | 596,322 | 468,018 | 8,044,828 | Firm Demand Revenue 503,010 | 529,254 |
| 의 | <u>?</u> | | XS-KW 5,407 1,073 9,462 | 15,942 | | | | | | | | |
| ate Revenu | · | | 5,407 1,073 9,582 | 16,052 | | XS-KW 1,810 846 8,460 3,655 23,527 | 15,334 | | 25,858 13,625 | 53,116 | 89888 WH-SX | 88,713 |
| s - Base R | 10,000,173 | 9,170,197,674 | KWH-2 1,181,355 482,465 4,618,956 | 6,282,776 | | BILL-KWH 44,569,633 5,705,834 20,646,506 28,546,395 170,284,530 | 119,181,435 | 49,962,903 | 49,502,574 | 729,894,618 | 8251758 36415397 86415397 81144684 81144684 | 105,191,985 |
| Billing Units – Base Rate Revenue | į – | 20,708,501 | XWIL1 1,118,256 361,263 | 5,155,598 | | 911,1-KW 74,610 10,266 54,860 55,158 263,250 | 208,034 | 81,800 | 90,058 358,525 | 1,196,559 | \$9226 \$1089 WAY TITE | 159,313 |
| Ш | KWH-Z 100,405 (8,577 208,100,406 199,290,306 199,290,306 199,290,306 199,290,306 199,60,406 201,118,913 105,512,600 201,118,913 105,512,600 4,250,920 4,250,920 4,730,920 4,730,920 4,730,920 | 4,487,835,397 | CHTR-KW 0 120 | 120 | | CNTR-KOW 72,800 9,420 46,500 51,500 229,723 | 192,700 | 81,800 | 344,300 | 1,103,543 | CMTR-4W 89000 8600 | 72,600 |
| 0.00378 | E-1 6.82 0.0314 0.0330838 2.03084 2.02, 4.03, 4.03 2.10, 787, 748 2.20, 6.03, 2.02 2.20, 6.03, 2.03 2.20, 6.03 2.20, 6.03 | , 582,541,283 | | | | | | | | 1 | . | |
| я * Н ч | E-2 2.2 3.22 0.039464 0.030898 E E E E E E E E E E E E E E E E E E E | 5.22 2.07 0.038464 | NAME RIC Coder Lake (E3 Magnolia Co E3 Cheplin E3 | | 92.7 9.72 9.0027 | GROUP | _ | | | | 7.29 3.69 4.14 0.0273285 NAME R/C LIly Tulip CA BD Alf Liquide BD | |
| Demand Energy! | # Dommod | Rate E _ Interr Firm Demand Inter 60 Demand | # COOP 130 COOP 251 C | | Rate B Demand Excess D Energy | # COOD + L W W W W W W W W W W W W W W W W W W | 6 37 B | | | Total B | Rate B - Interr Firm Demand Interr 10 Demand Interr 80 Demand Energy R COOP N 2 37 A A | |
| | | and the second second | | | | | | | | | | |

Request 1a Attachment Page 2 of 3 EXHIBIT I Page 4 of 7

| | | | Revenue Adjustment | 60,420 69,023 181,926 | 0 204,854 | 11,400 | 610,652 313,795 0 | 000 | 55,049 0 | 1,487,119 | | Revenue | 498,379 | | | 98,306 247,478 345,783 | | | | 2,971,785 | 2,971,785 | | | 00 | 0 | |
|-----|--------|--------|-----------------------------|--|--------------|-----------|-----------------------------|------|------------------|-------------|------------------|-----------------------------|-----------------------------|-----|------------------|--|----------|--------|------------------------------------|---------------------------|--|-----------|---------------------------------------|---|-----------|--|
| | | | Present Total Revenue | 90 00 6 | 2,312,464 | 105,823 | 5,684,585 3,180,622 0 | 600 | 604,486 | 15,987,554 | | Present Total Revenue | 7,381,355 | | | 1,473,864 3,485,937 4,959,800 | | | | 30,870,772 | 30,870,772 | | | 4,061,065 | 9,563,647 | |
| | | | Total Revenue | 805,315 800,711 1,784,828 | 2,517,318 | 117,223 | 7,295,238 | | 659,535 | 17,474,683 | | Total Revenue | 7,889,734 | | in the second | Reverue 1,572,169 3,733,414 5,305,583 | | | ļ | Revenue 33,842,557 | 33,842.557 | | | Total Revenue 4,061,085 5,602,582 | 9,663,647 | |
| | | | Energy . | 573,483 536,880 1,163,643 | 1,731,325 | 73,483 | 4,952,261 | | 448,322 | 11,768,844 | | Energy | 5,635,627 | | Engrey | Revenue 1,127,545 2,614,104 3,741,649 | | | ; ; | Revenue 17,617,063 | 8,838,806 17,617,063 | | | Energy Revenue 3,779,534 5,077,582 | 8,857,116 | |
| | | | | | | | | | | | | | | | | | | | į | Revenue 8,838,806 | 1 | | | Energy-ON Revenue | | |
| : | | ···· | Derrand | 231,822 | 785,993 | 43,740 | 2,342,977 | | 211,213 | 5,705,839 | | Demand | 2,254,107 | | d d | Revenue 444,824 1,119,310 1,563,934 | | | | Revenue 7,386,667 | 7,386,687 | | | Ď Ž | 808,531 | |
| | | | | | | | | | | | | | | | | | | | | interr Chg = | | | | TOTS BILL-KWH 4061065 67755402 56072582 8570870 9683647 1597782772 | | |
| | | | | | | | | | | | | : | 220,486,205 | | | BILL-KWH 44,113,866 102,273,245 146,386,911 | | | | 1,034,355,652 | | | | um of FACS 7 | | |
| | | | BILLKWH | 20,987,840 19,611,349 42,585,301 | 63,360,482 | 2,689,215 | 181,235,637 83,822,026 | | 18,407,017 | 430,698,767 | | | 325,738 | | | 64.252 64.252 161.750 226,002 | | | | BILL-KW 1,942,343 | 180,000 1,440,000 322,343 | 1,942,343 | | BILL KW Sum of FAC\$ 150875 0 300000 0 | | |
| | | | BILL -KOW | 31,800 36,328 85,224 | 107,818 | 6,000 | 321,396 165,155 | | 28,973 | 782,694 | | | R_GROUP | | | R_GROUP B C | | | | KWH-2 ,504 714,688,148 | Firm 10 min Intern 90 min Intern | | | 1 KWH-2 30733734 36421668 40831542 4773328 71565276 84160998 | | , |
| | | 7.29 | 0.027325 | . 000 | v | oe | 200 | | υ | | ner | | NAME R/C Inland Conta CM | | 6.92 0.02556 | NAME RIC AGC Automy BD AGC Automy CM | | | 3,32 4,22 0.02765 0.02465 | മ' ശ | | | 1.75 calc | R_GROUP KWH-1 3073 H 4083 H 7156 | | 5.00073823 0.02450058 |
| | O] | Demans | Energy | | 8 % | 5 48 | 5 13 13 E | និងន | 0 2 2 3 | Total C | Inland Container | Demand Energy | - 22 22 24 | (al | Demand Energy | COOP N 1 51 A 2 51 A Total AGC | atin | Demand | Int-10 Eng-ON Eng-ON | , 37 1 37 | | ٠, | Demand Eng-ON cale Eng-OFF cale | COOP 1 23 2 52 | | Inland Steam equiv Demand equiv Energy |
| ; . | Rate C | | * | • | | | | | | | <u>lnla</u> | | ¥£ | AGC | | 1 1: | Gallatin | | | ** | | TGP | | 78 | | Inlai equiv |

EXHIBIT I Page 5 of 7

| | 778.224 | | ć | Adjustment | | 0 (| > .0 | | · es · | 0 (|) C | . 6 | 5 | 0 | 0 | ۰. | > c | • = | ó | | • 6 | > c | 43,364,220 |
|--|--------------------------|--------|----------|------------|------------|------------|----------------|----------|----------|--------------|------------|---------|-----------|-----------|----------|---------|---------------|-----------|-----------|-------------|----------------------------|-----------------------|-------------------------------------|
| | 8,554,161 | | Present | • | , | 439 595 | 447,336 | 989,168 | 413,076 | 955,020 | 613,860 | 689,112 | 474,120 | 1,197,228 | 325,248 | 266,150 | 0 | 410,676 | 1,162 992 | 10,219,784 | 426 2000 | 7,500 | |
| Fotal Revenue | 3,534,384 | | Total LC | Reversion | 788 ACT | 439,596 | 447,336 | 899,198 | 413,078 | 955,580 | 613,860 | 669,112 | 474,120 | 1,197,228 | 417 FAR | 268.296 | 0 | 410,676 | 1,162,982 | 10,219,764 | 426,000 | 7,500 | 554,033,251 |
| Energy Revente | | | | | | | | | | | | | | | | | | | | | Metaring | 5 Metering Point only | 140,461,551 186,836,874 218,081,567 |
| Dem Reve. 2543.590 | | | | | 392 | 986 | 2 52 53 | 776 | 98 | 00 | 22 | ZO | 28 | 84 | 8 | æ. | ာ ဗူ | . 5 | | × | | | • |
| | - | | d | | 886,692 | 439,596 | 991,868 | 413,078 | 428,336 | 008,866 | 689.112 | 474,1 | 1,197,228 | 325,248 | 517,548 | 967397 | 410.676 | 1,162,997 | | 10,219,764 | 425,000 | 3 | 10,653,264 |
| 277,090,529 Mbts-Energy 2392681.7 | | | 4605 | | 24 | 75 | ₹ | * | ₽ | \$ € | 4 | 8 | \$ | | ħ | | | Z | | 4 68 | Metering Met Point only | | |
| 508,649 Mbtz-Demand N 4394,11 | | | 2855 | | 82 3 | 108 | 240 | 88 | 120 | i t | 4 | 108 | 312 | 3 | <u> </u> | ţ | æ | 228 | | 3 | Met | | |
| converted Mi | | | 2373 | | 4 5 | 7 | 8 | <u>t</u> | 2 | 7 | 7 | į | 8 8 | 8 8 | 2 8 | ļ | 22 | 89 | 1 | Ř | | | |
| | alized | 125 | 776 | ; | Ā | | | | | 12 | | | | | | | ; | 12 | ų | 3 | | | |
| 7205 64463 38014 \$ Mbtu 595994 \$ Mbtu | .oad Center ~ Normalized | Metor≖ | =07 | b D | ន | ٠. | . 5 | 2 4 | | G > 1 | - ^ | 1 4 | | | _ | | | | | | | | |

| | Rate Adj | 3,716,181 | 3,865,565 | 7,188,493 | 2,675,812 | 4,457,060 | 1,971,896 | 30,005 | 43,364,220 |
|---------------------------------------|-------------------------------|----------------------------|--|---|------------------|---------------------------------|--------------------------|------------|-------------|
| | Present | 42,526,334 | 20,221,967 42,364,588 18,671,430 | 21,777,590 | 31,936,390 | 51,840,182 | 22,673,225 | 314,498 | 52,390,640 |
| | Proposed | 48,242,515 | 46,020,253 | 23,657,444 | 34,611,402 | 56,297,242 | 24,645,121 12,726,538 | 12,902,829 | 554,033,251 |
| | | | | | | ÷ | | | • |
| | Metering Only | | 1500 | 3000 | 1500 | 1500 | | | 7.500 |
| | Metering | 39,000 19,500 18,000 | 18,500 | 34,500 34,500 36,000 | 27,000 18,000 | 49,500 15,000 100,51 | 12,600 | 19,500 | 426,000. |
| | Load Center | 439,596 | 991,668 | 955,980 613,860 | 689,112 | 1,197,228 325,248 517 548 | 289,296 | 410,676 | 10,219,764 |
| | AGC | | | | 5,305,583 | | | | 5,305,583 |
| | 195 | 4,061,065 | | | 5,502,582 | | | | 9,663,647 |
| | Gallatin | | | 33,842,557 | | | | | 33,842,557 |
| | inland Steam | | | | 9,332,384 | | | | 9,332,384 |
| | inland Container inland Steam | | | | 7,889,734 | | | | 7,889,734 |
| System | Э | 800,711 800,711 | 2,517,318 | 11,223 | 7,295,238 | 000 | 0 0 000 | 0 | 17,474,683 |
| by member | 3,346,394 | 1,242,292 | 8,629,299 | 0,330,539 0 1,961,558 | 2,072,016 | 000 | > O C | 8,988,679 | 32,617,902 |
| ordina rotal revenue by member System | £ 41,970,429 | 19,437,170 | 13,398,969 | 20,561,234 26,628,149 | 20,429,813 | 24,105,073 | 344,503 | 46,624,862 | 427,253,496 |
| 5 | COOP 23 23 | 120 | AKR | \$ 15 54 54 54 54 54 54 54 54 54 54 54 54 54 | 8 & 8 | 8 2 2 | 59 61 | \$ | |

| | Total \$ Present Rate | Total \$ Proposed Rate | \$ Increase | % Increase |
|---|-----------------------|------------------------|-------------|------------|
| Schedule 1 General Service | 8,819,817 | 9,158,925 | 339,108 | 3.84% |
| Schedule ETS Off-Pk Retail Mkt Rate | 31,013 | 32,247 | 1,234 | 3.98% |
| Schedule 2 Lg Power Service >50 kW | 3,105,183 | 3,246,419 | 141,236 | 4.55% |
| Schedule 3 - Outdoor & Str Lighting | 337,674 | 345,190 | 7,516 | 2.23% |
| Schedule 10 - Optional Res, Church & School | 9,294,111 | 9,706,538 | 412,428 | 4.44% |
| Schedule B-1 Lg Industrial Rate | 7,350,653 | 7,865,097 | 514,444 | 7.00% |
| Sch B-2 Lg Industrial Rate | 2,553,357 | 2,725,305 | 171,948 | 6.73% |
| | 31,491,807 | 33,079,721 | 1,587,914 | 5.04% |

Schedule 1 General Service Rate 1; 11, 14; 31

| | | | | | | *** | | <u> </u> | | |
|--|--------------------------|--------------------------|------------------------|------------------------|---|------------------------|------------------------|--------------------|----------------|--------------------|
| | E-Based kWh | Existing | | | Proposed | | | S Increase % | Increase | Dmd \$ Energy S |
| | | Billing | Current | Annualized | Billing | | Annualized | | | |
| | ! | Determinants | Rate | Revenues | Determinants | Rate | Revenues | | | |
| Customer Charge | | 102,395 | \$7.18 | \$735,196 | 102,395 | \$7.18 | 735,196 | - | 0.00% | |
| Energy charge per kWh | | | | | | | | *00.504 | E 048/ | 400 504 |
| First 600 kWh Next 1400 kWh | 58,067,339 37,548,840 | 58,067,339 37,548,840 | \$0,06758 \$0,06583 | 3,924,191 2,471,840 | 58,067,339 37,548,840 | \$0,07096 \$0,06921 | 4,120,692 2,598,906 | 196,501 127,066 | 5.01% 5.14% | 196,501 127,066 |
| all over 2000 kWh | 4,592,366 | 4,592,366 | \$0.05451 | 296,254 | 4,592,366 | \$0.06789 | 311,794 | 15,541 | 5.25% | 15,541 |
| Total from base rates | | | | 7,427,481 | | | 7,766,589 | 339,108 | 4.57% | |
| Fuel adjustment | | | | 788,311 | | | 788,311 | * | 0.00% | • |
| Environmental surcharge | | | | 604,025 | | | 604,025 | - | 0.00% | |
| Total revenues | | | | \$8,819,817 | | | 9,158,925 | 339,108 | 3.84% | • |
| Average Bill | | | | \$86.14 | | | 89,45 | 3.31 | 3.84% | |
| | | | | | Schedule ETS | | | | | |
| | | | | Off | Peak Retail Marketir | g Rate | | | | |
| | | | | | Rate 9; 29 | | | | | |
| | E-Based kWh | Existing | | | Proposed | | | \$ Increase 9 | 6 Increase | Dmd \$ Energy \$ |
| | | | | | m/w | | A | | | |
| | • | Billing Determinants | Current Rate | Annualized Revenues | Billing Determinants | Rate | Annualized Revenues | | | • |
| | 1 | | - raid | | | | | | | |
| Customer Charge | | 95 | | \$0 | 95 | \$0.00 | * | | | |
| Sch 9 27 Cust, Sch 29 68 Cust Energy charge per kWh | 608,765 | 608,765 | \$0.03871 | 23,565 | 608,765 | \$0.04074 | 24,799 | 1,234 | 5.23% | 1,234 |
| Total from base rates | | | | 23,565 | | | 24,799 | 1,234 | 5.23% | |
| Fuel adjustment | | | , | 5,488 | | | 5,488 | • | 0,00% | |
| Environmental surcharge | | | | 1,960 | | | 1,960 | ······ | 0.00% | |
| Total revenues | • | | | \$31,013 | | | 32,247 | 1,234 | 3.98% | |
| Average Bill . | • | | | \$326.46 | | | 339 | 12.99 | 3.98% | |
| | | | | | Schedule 2 | 201141 | | | | • |
| | | | | Li | arge Power Service > Rale 2; 5; 21; 32 | OUKAA | | | | |
| | E-Based kWh | Existing | | | Proposed | | | \$ Increase | % Increase | Omd \$ Energy \$ |
| | | D.W | | | D96 | | Annualized | | | |
| - | | Billing Determinants | Current Rate | Annualized Revenues | Billing Determinants | Rate | Revenues | | | |
| Customer Charge | | 775 | \$0.00 | \$0 | 775 | \$0.00 | - | - | | |
| Demand Charge | | 128,622 | \$4.50 | 578,799 | 128,622 | \$4,50 | 578,799 | • | 0.00% | • 1 |
| Energy Charge | | | | | | | | | | |
| First 100 kWh Per KW | 12,264,204 | 12,264,204 | \$0.05384 | 660,305 | 12,264,204 | \$0.05722 | 701,707 | 41,402 | 6.27% | 41,402 |
| Next 100 kWh Per KW | 11,310,936 | 11,310,936 | \$0,04827 \$0,04271 | 545,979 779,985 | 11,310,936 18,262,362 | \$0.05165 \$0.04609 | 584,163 841,636 | 38,184 61,651 | 6.99% 7.90% | 36,184 61,651 |
| All over 200 kWh Per KW | 18,262,362 | 18,262,362 | \$0,04271 | 779,983 | 18,202,302 | 50.04009 | 041,030 | 1,0031 | 7.90% | 100,10 |
| Total Baseload Charges | | | | \$2,565,068 | | | 2,706,304 | 141,236 | 5.51% | |
| Fuel adjustment Environmental surcharge | | | | 328,378 211,737 | | | 328,378 211,737 | | 0,00% 0,00% | |
| Total revenues | | | | \$3,105,183 | | | 3,246,419 | 141,236 | 4.55% | • |
| Average Bill | | | | \$ 4,006.69 | | | 4,189 | 182.24 | 4.55% | |

Schedule 3 Ouldoor & Street Lighting Service

| | E-Based kWh | Existing | | | Proposed | | | \$ Increase | % Increase | Dmd \$ Energy S |
|---|--|--|--|--|--|---|---|----------------------------------|---|----------------------------------|
| | E-Based Kyvii | Billing | | | | | | | 14 (100-18)-541 | |
| | | Determinants | Current Rate | Annualized Revenues | Billing Determinants | Rate | Annualized Revenues | | | |
| | • | | | | | | | | | |
| Customer Charge 100 Watt HPS Security light 250 Watt Directional Flood 100 Watt Decorative Colonial 400 Watt Directional Flood 150 Watt Decorative Acorn | 1,659,450 286,056 32,292 240,408 8,352 | 1,659,450 286,056 32,292 240,408 8,352 | \$0.17 \$0.11 \$0.23 \$0.08 \$0.18 | \$277,000.50 \$30,446.88 \$7,369.20 \$18,733.68 \$1,513.44 | 1,659,450 286,055 32,292 240,408 8,352 | \$0,17030 \$0,10981 \$0,23168 \$0,08130 \$0,18458 | 282,603 31,413 7,478 19,545 1,542 | 5,602 966 109 812 28 | 2.02% 3.17% 1.48% 4.33% 1.86% | 5,602 966 109 812 28 |
| 100 Hatt Devolative Accin | 0,002 | 0,000 | V | | ., | | 342,580 | | | • |
| | | | | 335,064 | | | | | | |
| | | | AC S _ | 1,031 1,579 337,674 | | | 1,031 1,579 345,190 | 7,516 | 2.23% | |
| | | | | Shelby E for the 12 | nergy Cooperative B months ended Septe | illing Analysis mber 30, 2006 | | | | |
| | | | | Optional Re | Schedule 10 sidential, Church and Rate 10; 13; 40; 8 | | ce | | | |
| | E-Based kWh | Existing | | | Proposed | | | \$ Increase | % increase | Dmd \$ Energy \$ |
| | | Billing | Current | Annualized | Billing | т | Annualized | | | |
| | | Determinants | Rate | Revenues | Determinants | Rate | Revenues | | | |
| | | | | | | | | | | |
| Customer Charge Single Phase Three-Phase Service | | 73,368 144 | \$11.35 \$29.50 | \$832,727 \$4,248 | 73,368 144 | \$11,35 \$29,60 | 832,727 4,248 | - | 0.00% 0.00% | |
| Energy charge per kWh | 122,170,911 | 122,170,911 | \$0.05618 | 6,863,562 | 122,170,911 | \$0.05966 | 7,275,989 | 412,428 | 6.01% | 412,428 |
| | | | | | | | | - | | |
| Total from base rates | | | | 7,700,537 | | | 8,112,964 | 412,428 | 5,36% | |
| Fuel adjustment Environmental surcharge | | | | 960,538 633,036 | | | 960,538 633,036 | | 0.00% 0.00% | • |
| Total revenues | | | | \$9,294,111 | | | 9,706,538 | 412,428 | 4.44% | |
| Average Bill | | | | \$ 126.43 | | | 132 | 5,61 | 4.44% | |
| | | | | | Schedule B-1 Large Industrial R Rate 8; 38 | ate | | | | |
| | E-Based kWh | Existing | | | Proposed | | | 5 Increase | % Increase | Dmd \$ Energy S |
| | | Billing | Current | Annualized | Billing | | Annualized | | | |
| | | Determinants | Rate | Revenues | Determinants | Rate | Revenues | | | |
| Customer Charge | | 131 | \$535.00 | \$70,085 | 131 | \$635.00 | 70,085 | | 0.00% | |
| Demand Charge Excess Demand | | 246,975 23,785 | \$5.39 \$7.82 | 1,331,195 185,999 | 246,975 23,785 | \$7.29 \$9.72 | 1,800,448 231,190 | 469,253 45,192 | 35.25% 24,30% | 469,253 45,192 |
| Energy Charge First 100 kW | | 121,456,449 | \$0.03567 | 4,332,352 | 121,456,449 | \$0.03567 | 4,332,352 | | 0.00% | |
| Total Baseload Charges | | | | \$5,919,630 | • | | 6,434,074 | 514,444 | 8.69% | |
| Fuel adjustment Environmental surcharge | | | | 938,402 492,621 | v | | 938,402 492,621 | - | 0.00% 0.00% | |
| Total Revenues | | | | \$7,350,653 | | | 7,865,097 | 514,444 | 7.00% | |
| Average B# | | | | \$ 56,111,86 | | | 60,039 | 3,927.05 | 7.00% | |
| | | | | | | | | | | |

Schedule B-2 Large Industrial Rate Rate 28

| | | | | * | ridie 20 | | | | | |
|--|----------------|--------------------|------------------|------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
| | E-Based kWh Ex | dsting | | | Proposed | | | \$ Increase | % Increase | Dmd \$ Energy \$ |
| | | illing rminants | Current Rate | Annualized Revenues | Billing Determinants | Rate | Annualized Revenues | | | |
| Customer Charge | | 12 | \$1,069.00 | \$12,828 | 12 | \$1,069 | 12,828 | - | 0.00% | |
| Demand Charge Excess Demand | | 87,600 2,899 | \$5.39 \$7.82 | 472,164 22,670 | 87,600 2,899 | \$7.29 \$9.72 | 638,604 28,178 | 166,440 5,508 | 35.25% 24.30% | 166,440 5,508 |
| Energy Charge Per kWh | 48, | 771,157 | \$0.03067 | 1,495,811 | 48,771,157 | \$0.03067 | 1,495,811 | * | 0.00% | • |
| Total Baseload Charges | | | : | \$2,003,474 | | | 2,175,422 | 171,948 | 8.58% | |
| Fuel adjustment Environmental surcharge | | | | 374,879 175,004 | | | 374,879 175,004 | | 0.00% 0.00% | |
| Total Revenues | | | | \$2,553,357 | | | 2,725,305 | 171,948 | 6.73% | |
| Average Bill | | | | \$ 212,779.71 | | | 227,109 | 14,329.01 | 6.73% | |
| Non "B" & "C" Energy | 267,052,281 | | | | | | | | | |

\$ 1,587,914 Total Revenue Req

686,392 901,522 901,52

901,522 Less Dmd \$

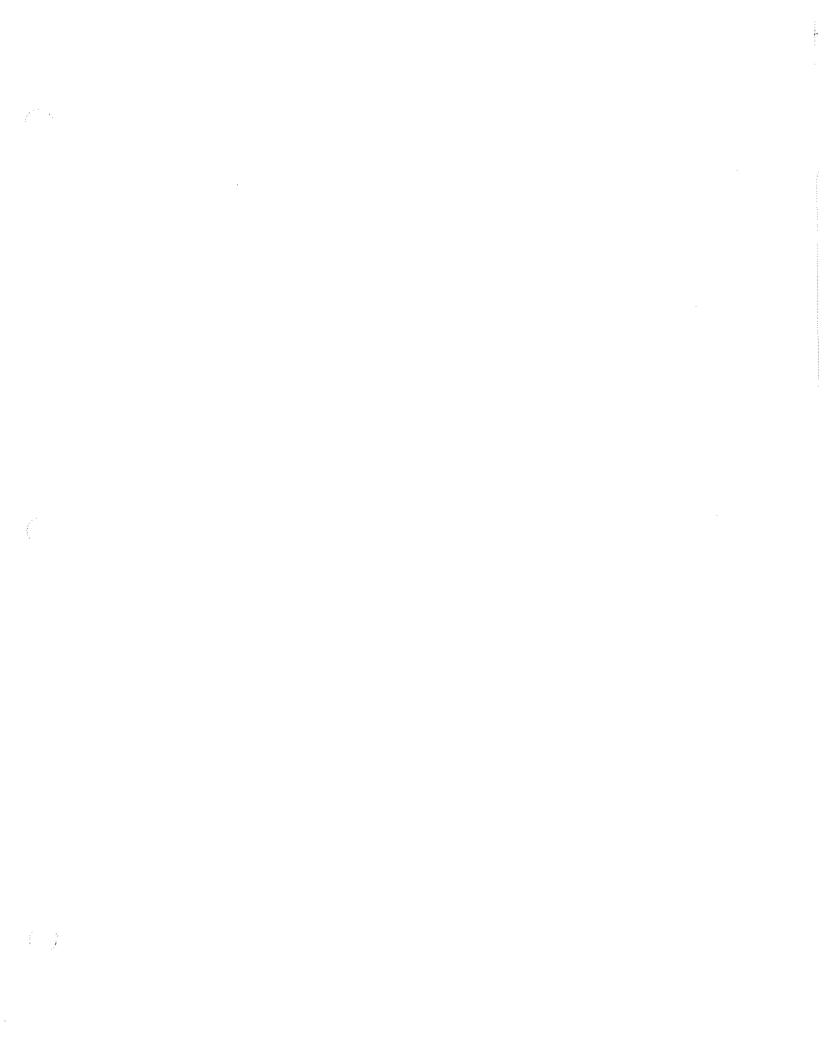
0,00338 per kWh

1,587,914

0.00

| | | | Existing | | | | Pr | oposed | | | \$ Increase | % Increase |
|-----------------------------------|-----|--------------|-----------|---------|------------|---------|--------------|--------|------------|---------|-------------|------------|
| Rate 3, Outdoor & Street Lighting | | Billing | | Current | Annualized | Per kWh | Billing | | Annualized | | | |
| | | Determinants | kWh | Rate | Revenues | | Determinants | Rate | Revenues | Per kWh | | |
| 100 Watt HPS Security light | 39 | 42,550 | 1,659,450 | \$6.51 | 277,001 | 0.16692 | 42,550 | 6.64 | 282,603 | 0.17030 | 0.13 | 2.02% |
| 250 Watt Directional Flood | 87 | 3,288 | 286,056 | \$9.26 | 30,447 | 0.10644 | 3,288 | 9.55 | 31,413 | 0.10981 | 0.29 | 3.17% |
| 100 Watt Decorative Colonial | 39 | 828 | 32,292 | \$8,90 | 7,369 | 0.22821 | 828 | 9,03 | 7,478 | 0.23158 | 0.13 | 1.48% |
| 400 Watt Directional Flood | 159 | 1,512 | 240,408 | \$12.39 | 18,734 | 0.07792 | 1,512 | 12.93 | 19,545 | 0.08130 | 0.54 | 4.33% |
| 150 Watt Decorative Acom | 58 | 144 | 8,352 | \$10.51 | 1,513 | 0.18121 | 144 | 10.71 | 1,542 | 0.18458 | 0.20 | 1.86% |
| Total Base Rates | | 48,322 | 2,226,558 | | 335,064 | | 48,322 | | 342,580 | | \$7,516 | 2.24% |
| FAC- | | | | | 1,031 | • | | | 1,031 | | | |
| ES | | | | | 1,579 | | | | 1,579 | | | |
| Total | | | | | 337,674 | : | | | 345,190 | | 7,516 | 2.23% |
| Average Bill | | | | | 6.99 | | | | 7,14 | | 0.16 | 2.23% |

David Graham will call me with kWh



SHELBY ENERGY COOPERATIVE, INC. PSC CASE NO. 2006-00487 FIRST DATA REQUEST RESPONSE

COMMISSION STAFF'S FIRST DATA REQUEST DATED 3/12/07

REQUEST 2

RESPONSIBLE PERSON:

William A. Bosta

COMPANY:

Shelby Energy Cooperative, Inc.

Request 2. KRS 278.455(2) provides that a distribution cooperative may change its rates to reflect a change in the rate of its wholesale supplier if the effects of an increase or decrease are allocated to each class and within each tariff on a proportional basis that will result in no change in the rate design currently in effect. 807 KAR 5:007, Section 2(2), provides that the distribution cooperative shall file an analysis demonstrating that the rate change does not change the rate design currently in effect and the revenue change has been allocated to each class and within each tariff on a proportional basis. In the cover letter to its Application, Shelby states:

In each instance, the retail rates for a particular class have been developed in a manner that is consistent with the method proposed by EKPC. The proposed rate design structure at retail does not change the rate design currently in effect and is consistent with the rate design methodology used at wholesale.

Request 2a. For each retail Rate Schedule listed in Exhibit II of the Application, identify the corresponding wholesale Rate Schedule of East Kentucky Power Cooperative, Inc.

Response 2a. Please see the attached information.

Request 2b. Would Shelby agree that KRS 278.455(2) and 807 KAR 5:007, Section 2(2), require that increases or decreases in rates from the wholesale supplier must be allocated to each retail class and within each retail tariff on a proportional basis? Explain the response.

Response 2b. Yes. EKPC and each Member System understands these requirements and have developed proposed rates that meet the intent of KRS 278.455(2) and 807 KAR5:007. As explained in Mr. Bosta's testimony, EKPC began the rate design process at wholesale by allocating the proposed rate increase to each rate class on a proportional basis. The proportional increase to each rate class was then applied to the most appropriate rate mechanism for each rate class.

The proposed increase at retail is strictly a pass-through of EKPC's increased wholesale costs and each Member System must recover the dollar increase from new wholesale rates. As a result, EKPC and each Member System recognized that it was important to implement retail rates that mirror the change at wholesale, while meeting the proportionality and rate design requirements.

EKPC and its Member Systems understand that a "pure" proportional increase at retail, as discussed in Item 3 herein, would result in increases at retail to customer, demand and energy charges. However, EKPC and its Member Systems came to the conclusion that, for example, an increase in the customer charge at retail made no sense because the wholesale increase had no relationship to customer cost. EKPC has not proposed an increase in its substation charges or metering point charges in this proceeding. Consequently, EKPC and its Member Systems could not justify increasing the retail customer charge when the wholesale increase has no relationship to that cost.

Therefore, EKPC believes that its proposed wholesale increase using a proportional basis, coupled with the use of the wholesale rate design methodology at retail, is a reasonable approach to meeting the intent of the requirements.

Request 2c. Would Shelby agree that KRS 278.455(2) and 807 KAR 5:007, Section 2(2), require that the retail rate change does not change the retail rate design currently in effect? Explain the response.

Response 2c. Yes. EKPC and its Member Systems understand the requirements set forth in KRS 278.455(2) and 807 KAR 5:007 and believe that the proposed rates do not alter the existing rate design structure at retail.

As indicated in the response to Item 2b, the rate design used for the pass-through increase at retail was intended to meet these requirements, while also maintaining the existing wholesale/retail rate design relationship and recognizing cost causation principles.

Industrial customers at retail, for example, will pay the same demand charge as the Member System pays to EKPC. This maintains the rate design relationship from wholesale to retail that has existed for a number of years. Likewise, the proposed increase in the "E" wholesale rate, which is only applied to the energy charge, is being passed through only to the energy charge at retail. This process allows the rate design relationship from wholesale to retail to remain in place.

Fundamentally, for every retail rate class, there has been no change in the rate design structure. The demand, energy, and customer components for industrial rates remains intact and the residential and commercial rate design structure remains as is through a continuation of the customer and energy charge structure. This adherence to the rate

design structure, coupled with a retention of the wholesale to retail rate design relationship, is a reasonable approach and meets the legal requirements.

The present and proposed rates structures of Shelby Energy Cooperative, Inc. are listed below:

| | Rate Class | EKPC Sch | Present | Proposed |
|-----|--|----------|----------------------------|--------------|
| 1 | General Service | E2 | ሮ ማ 10 | \$7.18 |
| | Consumer Facility Charge | | \$7.18 N/C | N/C |
| | Demand Charge – 1 st 20 kW per Month | | \$4.50 | \$4.50 |
| | Demand above 20 kW per Month | | \$0.06758 | \$0.07088 |
| | Energy First 600 kWh per Month | | \$0.06738 | \$0.06913 |
| | Energy Next 1400 kWh per Month | | \$0.06363 | \$0.06781 |
| | Energy All Over 2000 kWh per Month | TD 1 | \$0.00 4 31 | φυ.υυ/οι |
| ETS | Off-Peak Retail Marketing Rate | E2. | ⊕∩`∩2971 | \$0.04069 |
| | Energy – All kWh | 77.0 | \$0.03871 | \$0.04009 |
| 2 | Large Power Service | E2 | Ø4 E0 | \$4.50 |
| | Demand Charge per kW | | \$4.50 | \$0.05713 |
| | Energy Charge First 100 kWh per kW | | \$0.05384 | \$0.05715 |
| | Energy Charge Next 100 kWh per kW | | \$0.04827 | , |
| _ | Energy Charge All Over 200 kWh per kW | TO O | \$0.04271 | \$0.04600 |
| 3 | Outdoor and Street Lighting Service | E2 | ØC 51 | \$6.64 |
| | A HPS (High Pressure Sodium) – 100 Watt Security Light | | \$6.51 | \$9.03 |
| | B. HPS (High Pressure Sodium) – 100 Watt Decorative Colonial | | \$8.90 | \$9.03 |
| | Light | | #10.20 | 612.00 |
| | C. HPS (High Pressure Sodium) – 400 Watt Directional Flood | | \$12.39 | \$12.90 |
| | and Security and Street Light | | #0.2 C | ቀስ ፍር |
| | D. HPS (High Pressure Sodium) – 250 Watt Directional Flood | | \$9.26 | \$9.58 |
| | and Security and Street Light | | 010 61 | ¢10.70 |
| | E. HPS (High Pressure Sodium) – 150 Watt Decorative Acorn | | \$10.51 | \$10.70 |
| | Light | ** | | |
| B1 | Large Industrial Rate | В | <i>~ ~ ~ ~ ~ ~ ~ ~ ~ ~</i> | , acar 00 |
| | Consumer Charge / Mo | | \$535.00 | \$535.00 |
| | Demand Charge / kW Contract Demand | | \$5.39 | \$7.29 |
| | Demand Charge in Excess of Contract Demand | | \$7.82 | \$9.72 |
| | Energy Charge / kWh | - | \$0.03567 | \$0.03567 |
| B2 | Large Industrial Rate | В | 0.0.000 | #4 0.CO 00 |
| | Consumer Charge / Mo | | \$1,069.00 | \$1,069.00 |
| | Demand Charge per kW Contract Demand | | \$5.39 | \$7.29 |
| | Demand Charge in Excess of Contract Demand | | \$7.82 | \$9.72 |
| | Energy Charge / kWh | ~ | \$0.03067 | \$0.03067 |
| В3 | Large Industrial Rate | В | ** *** | 44 000 00 |
| | Consumer Charge Transformer Size 10,000 – 14,999 kVa | | \$2,980.00 | \$2,980.00 |
| | Consumer Charge Transformer Size 15,000 kVa and greater | | \$4,730.00 | \$4,730.00 |
| | Demand Charge per kW Contract Demand | | \$5.39 | \$7.29 |
| | Demand Charge in Excess of Contract Demand | | \$7.82 | \$9.72 |
| | Energy Charge / kWh | | \$0.02967 | \$0.02967 |
| C1 | Large Industrial Rate | C | 0 = 0 = 0 0 | A # 0 # 00 |
| | Consumer Charge / Mo | | \$535.00 | \$535.00 |
| | Demand Charge /kW | | \$5.39 | \$7.29 |
| | Energy Charge / kWh | | \$0.03567 | \$0.03567 |
| C2 | Large Industrial Rate | С | | |
| | Consumer Charge / Mo | | \$1,069.00 | \$1,069.00 |
| | Demand Charge / kW | | \$5.39 | \$7.29 |
| | Energy Charge / kWh | ~ | \$0.03067 | \$0.03067 |
| C3 | Large Industrial Rate | С | # a 000 00 | #A AAA AA |
| | Consumer Charge Transformer Size 10,000 – 14,999 kVa | | \$2,980.00 | \$2,980.00 |
| | Consumer Charge Transformer Size 15,000 kVa and greater | | \$4,730.00 | \$4,730.00 |
| | Demand Charge / kW | | \$5.39 | \$7.29 |
| | Energy Charge / kWh | | \$0.02967 | \$0.02967 |
| | | | | |

| | | | | Request 2a | |
|-----|----|--|----|-------------|-----------|
| | | | | Attachment | |
| | | | | Page 2 of 2 | |
| , · | 22 | Optional T-O-D Demand | E2 | Ü | |
| | | Consumer Charge / Mo | | \$40.00 | \$40.00 |
| | | Demand Charge / kW | | \$4.50 | \$4.50 |
| | | Energy Charge – First 100 kWh per kW Demand | | \$0.05384 | \$0.05713 |
| | | Energy Charge - Next 100 kWh per kW Demand | | \$0.04827 | \$0.05156 |
| | | Energy Charge – All Over 200 kWh per kW Demand | | \$0.04271 | \$0.04600 |
| | 10 | Optional Residential, Church & School Service | E2 | | |
| | | Customer Charge – Single Phase Service | | \$11.35 | \$11.35 |
| · | | Customer Charge – Three Phase Service | | \$29.50 | \$29.50 |
| | | Energy Charge /kWh | | \$0.05618 | \$0.05947 |
| | 33 | Special Outdoor Lighting Service | E2 | | |
| | | 1. Energy Charge /kWh | | \$0.04264 | \$0.04593 |
| | | 2. Facilities Charge | | 1.4027% | 1.4027% |

SHELBY ENERGY COOPERATIVE, INC. PSC CASE NO. 2006-00487 FIRST DATA REQUEST RESPONSE

COMMISSION STAFF'S FIRST DATA REQUEST DATED 3/12/07

REQUEST 3

RESPONSIBLE PERSON:

William A. Bosta

COMPANY:

Shelby Energy Cooperative, Inc.

Request 3.

Refer to Exhibit III of the Application.

Request 3a. Prepare the following comparative analyses of Shelby's present and proposed revenues:

(1) Calculate the percentage that each rate schedule or class represents of the total revenues for both the present revenues and proposed revenues. Percentages should be expressed to 2 decimal places.

(2) Calculate the percentage that each component of the base rates within each rate schedule or class represents of the total base rate revenues for both the present revenues and proposed revenues. Do not include fuel adjustment revenues, environmental surcharge revenues, or green power revenues. Percentages should be expressed to 2 decimal places.

Response 3a.

- (1) Please see the attached information.
- (2) Please see the attached information.

Request 3b. Based upon the results of the analyses prepared in part (a) above, explain in detail how Shelby's proposed pass-through rates are in compliance with the retail rate requirements of KRS 278.455(2) and 807 KAR 5:007, Section 2(2).

Response 3b. Maintaining the existing revenue proportion as shown in part (a) above assumes that the proportionality requirement would follow strict adherence to the existing proportion of revenues at retail, by rate mechanism component (i.e. customer, energy and demand). EKPC and the Member Systems believe that the proportionality requirement is not so narrow and that the pass-through at retail has followed the proposed wholesale rate design process in a proportional manner. At retail, for example, there is no increase in the customer charge because EKPC did not increase the metering point charge or substation charge at wholesale. Moreover, the "B" and "C" type retail industrial classes will have the same demand rate as the proposed demand rate for industrial customers at wholesale. It follows the matching concept upon which these rates were originally created.

See also the response to Item 2(b) and 2(c) herein. KRS 278.455(2) explicitly recognizes "proportional" allocation without recognizing a specific method, whether KWh, revenue, or other means of proportionality. EKPC has chosen the proportional method of applying wholesale to retail, with the intended matching concept of costs vs. revenue. The retail rates reflect this top-down approach to proportionality. Please see the attached analysis which illustrates this approach.

| • | Total \$ Present Rate | % of Total | Total \$ Proposed Rate | % of Total | \$ Increase | % Increase |
|---|-----------------------|------------|------------------------|------------|-------------|------------|
| Schedule 1 General Service | 8,819,817 | 28.01% | 9,158,925 | 27.69% | 339,108 | 3.84% |
| Schedule ETS Off-Pk Retail Mkt Rate | 31,013 | 0.10% | 32,247 | 0.10% | 1,234 | 3.98% |
| Schedule 2 Lg Power Service >50 kW | 3,105,183 | 9.86% | 3,246,419 | 9.81% | 141,236 | 4.55% |
| Schedule 3 - Outdoor & Str Lighting | 337,674 | 1.07% | 345,190 | 1.04% | 7,516 | 2.23% |
| Schedule 10 - Optional Res, Church & School | 9,294,111 | 29.51% | 9,706,538 | 29.34% | 412,428 | 4.44% |
| Schedule B-1 Lg Industrial Rate | 7,350,653 | 23.34% | 7,865,097 | 23.78% | 514,444 | 7.00% |
| Sch B-2 Lg Industrial Rate | 2,553,357 | 8.11% | 2,725,305 | 8.24% | 171,948 | 6.73% |
| | 31,491,807 | 100.00% | 33,079,721 | 100.00% | 1,587,914 | 5.04% |

Schedule 1 General Service Rate 1; 11, 14; 31

| • | Existing | | | dotrestate | Proposed | | | | \$ Increase | % Increase |
|--|---------------------------------------|-------------------------------------|-----------------------------------|---------------------------|---------------------------------------|-------------------------------------|-----------------------------------|---------------------------|------------------------------|-------------------------|
| | Billing Determinants | Current Rate | Annualized Revenues | % of Total | Billing Determinants | Proposed Rate | Annualized Revenues | % of Total | | |
| Customer Charge | 102,395 | \$7.18 | \$735,196 | 9.90% | 102,395 | \$7.18 | 735,196 | 9.47% | ÷ | 0.00% |
| Energy charge per kWh First 600 kWh Next 1400 kWh all over 2000 kWh | 58,067,339 37,548,840 4,592,366 | \$0.06758 \$0.06583 \$0.06451 | 3,924,191 2,471,840 296,254 | 52.83% 33.28% 3.99% | 58,067,339 37,548,840 4,592,366 | \$0.07096 \$0.06921 \$0.06789 | 4,120,692 2,598,906 311,794 | 53.06% 33.46% 4.01% | 196,501 127,066 15,541 | 5.01% 5.14% 5.25% |
| Total from base rates | | | 7,427,481 | 100.00% | | - | 7,766,589 | 100.00% | 339,108 | 4.57% |
| Fuel adjustment Environmental surcharge | | - | 788,311 604,025 | | | - | 788,311 604,025 | | <u>-</u> | 0.00% |
| Total revenues | | | \$8,819,817 | | | 2 | 9,158,925 | | 339,108 | 3,84% |
| Average Bill | | | \$86.14 | | | | 89.45 | | 3.31 | 3.84% |

Schedule ETS Off-Peak Retail Marketing Rate Rate 9; 29

| · [| Existing | *************************************** | *************************************** | | Proposed | | | | \$ Increase | % Increase |
|--|-------------------------|---|---|---------------|-------------------------|------------------|------------------------|---------------|-------------|----------------|
| | Billing Determinants | Current Rate | Annualized Revenues | % of Total | Billing Determinants | Proposed Rate | Annualized Revenues | % of Total | | |
| Customer Charge Sch 9 27 Cust, Sch 29 68 Cust | 95 | | \$0 | 0.00% | 95 | \$0.00 | | 0.00% | | |
| Energy charge per kWh | 608,765 | \$0.03871 | 23,565 | 100.00% | 608,765 | \$0.04074 | 24,799 | 100.00% | 1,234 | 5.23% |
| Total from base rates | | | 23,565 | 100.00% | | • | 24,799 | 100.00% | 1,234 | 5.23% |
| tjustment mental surcharge | | | 5,488 1,960 | | | . , | 5,488 1,960 | | | 0.00% 0.00% |
| Total revenues | | | \$31,013 | | | ! | 32,247 | | 1,234 | 3.98% |
| Average Bill | | | \$326.46 | | | | 339 | | 12.99 | 3.98% |

Schedule 2 Large Power Service >50kW Rate 2; 5; 21; 32

| | Existing | | | | Proposed | | | | \$ Increase | % Increase |
|---|--|-------------------------------------|-------------------------------|----------------------------|--|-------------------------------------|-------------------------------|----------------------------|----------------------------|-------------------------|
| | Billing Determinants | Current Rate | Annualized Revenues | % of Total | Billing Determinants | Proposed Rate | Annualized Revenues | % of Total | | |
| Customer Charge | 775 | \$0.00 | \$0 | 0.00% | 775 | \$0.00 | • | 0.00% | | |
| Demand Charge | 128,622 | \$4.50 | 578,799 | 22.56% | 128,622 | \$4.50 | 578,799 | 21.39% | | 0.00% |
| Energy Charge First 100 kWh Per KW Next 100 kWh Per KW All over 200 kWh Per KW | 12,264,204 11,310,936 18,262,362 | \$0.05384 \$0.04827 \$0.04271 | 660,305 545,979 779,985 | 25,74% 21,29% 30,41% | 12,264,204 11,310,936 18,262,362 | \$0.05722 \$0.05165 \$0.04609 | 701,707 584,163 841,636 | 25.93% 21.59% 31.10% | 41,402 38,184 61,651 | 6.27% 6,99% 7.90% |
| Total Baseload Charges | | - | \$2,565,068 | 100.00% | | - | 2,706,304 | 100.00% | 141,236 | 5,51% |
| Fuel adjustment Environmental surcharge | | - | 328,378 211,737 | | | | 328,378 211,737 | | · . | 0.00% 0.00% |
| Total revenues | • | * | \$3,105,183 | | | : | 3,246,419 | : | 141,236 | 4.55% |
| Average Bill | | | \$ 4,006.69 | | | | 4,189 | | 182.24 | 4.55% |

\$ Increase % Increase

3,927.05

7.00%

60,039

Shelby Energy Cooperative Billing Analysis for the 12 months ended September 30, 2006

Schedule 3 Outdoor & Street Lighting Service

| | Existing | | | | Proposed | | | | \$ Increase | % Increase |
|------------------------------|-------------------------|-----------------|------------------------|-----------------|-------------------------|------------------------|------------------------|-----------------|--------------|----------------|
| | Billing Determinants | Current Rate | Annualized Revenues | % of Total | Billing Determinants | Proposed Rate | Annualized Revenues | % of Total | | |
| Customer Charge | 4.050.450 | 00.47 | 077.004 | 00.070/ | 4 050 450 | tip 47000 | 202 202 | 00.409/ | 6.000 | 2.000 |
| 100 Watt HPS Security light | 1,659,450 | \$0.17 | 277,001 | 82.67% 9.09% | 1,659,450 286,056 | \$0.17030 \$0.10981 | 282,603 31,413 | 82.49% 9.17% | 5,602 966 | 2.02% 3.17% |
| 250 Watt Directional Flood | 286,056 | \$0.11 | 30,447 | | | \$0,10961 | | 2.18% | 109 | 1,48% |
| 100 Watt Decorative Colonial | 32,292 | \$0.23 | 7,369 | 2.20% | 32,292 | | 7,478 | | | |
| 400 Watt Directional Flood | 240,408 | \$0.08 | 18,734 | 5.59% | 240,408 | \$0.08130 | 19,545 | 5.71% | 812 | 4.33% |
| 150 Watt Decorative Acorn | 8,352 | \$0.18 | 1,513 | 0.45% | 8,352 | \$0.18458 | 1,542 | 0.45% | 28 | 1.86% |
| | | | 335,064 | 100.00% | | | 342,580 | 100.00% | | |
| | | FAC | 1,031 | | | | 1,031 | | | |
| | I | ES | 1,579 337,674 | | | ••• | 1,579 345,190 | | 7,516 | 2.23% |
| | | | 307,07 | | | | 2.44,.22 | | 1,1 | |

Shelby Energy Cooperative Billing Analysis for the 12 months ended September 30, 2006

Schedule 10 Optional Residential, Church and School Service Rate 10; 13; 40; 88

Proposed

Existing

Average Bill

| | } | | | | | • | | | | |
|-------------------------|----------------|-----------|--------------------|----------|-----------------------|-----------|--|---------|-------------------------|--|
| | Billing | Current | Annualized | % of | Billing | Proposed | Annualized | % of | | |
| | Determinants | Rate | Revenues | Total | Determinants | Rate | Revenues | Total | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Customer Charge | | | | | | | | | | |
| Single Phase | 73,368 | \$11,35 | \$832,727 | 10.81% | 73,368 | \$11.35 | 832,727 | 10.26% | • | 0.00% |
| Three-Phase Service | 144 | \$29,60 | \$4,248 | 0.06% | 144 | \$29.50 | 4,248 | 0.05% | · - | 0.00% |
| | | | | | | | | | - | |
| charge per kWh | 122,170,911 | \$0.05618 | 6,863,562 | 89.13% | 122,170,911 | \$0.05956 | 7,275,989 | 89,68% | 412,428 | 6.01% |
| | | | | | | | | | • | |
| | | | | | | | | | - | |
| Total from base rates | | • | 7,700,537 | 100.00% | | | 8,112,964 | 100.00% | 412,428 | 5.36% |
| | | • | | | * | | | | • | |
| Fuel adjustment | • | | 960,538 | | | | 960,538 | | - | 0.00% |
| Environmental surcharge | | | 633,036 | | | | 633,036 | | - | 0.00% |
| - | | • | | | | *** | | | | |
| Total revenues | | | \$9,294,111 | | | | 9,706,538 | | 412,428 | 4.44% |
| | | • | | | | = | ······································ | | | ······································ |
| Average Bill | | | \$ 126.43 | | | | 132 | | 5.61 | 4.44% |
| | | | • | | | | | | | |
| | | | | | Schedule B-1 | | | | | |
| | | | | | Large Industrial Rate | | | | | |
| | | | | | Rate 8; 38 | | | | | |
| | | | | | | | | | | |
| | Existing | | | | Proposed | | | | \$ Increase | % Increase |
| | 2,11011119 | | | | | | | | V 111.01.02.00 | |
| | Billing | Current | Annualized | % of | Billing | Proposed | Annualized | % of | | |
| | Determinants | Rate | Revenues | Total | Determinants | Rate | Revenues | Total | | |
| | E Determinanto | - Truce | | | | | | 70101 | | |
| • | | | | | | | | | | |
| Customer Charge | 131 | \$535,00 | \$70,085 | 1.18% | 131 | \$535.00 | 70,085 | 1.09% | | - 0.00% |
| Odstomer Onerge | 101 | 00,000 | ψ/ 5,000 | | | φοσο.σσ | , 0,000 | 1.0070 | | 5.0070 |
| Demand Charge | 246,975 | \$5,39 | 1,331,195 | 22.49% | 246,975 | \$7.29 | 1,800,448 | 27.98% | 469,253 | 35.25% |
| Excess Demand | 23,785 | \$7.82 | 185,999 | 3.14% | 23,785 | \$9.72 | 231,190 | 3.59% | 45,192 | 24,30% |
| Excess Demand | 20,100 | ψ,.02 | 700,000 | 0.1470 | 10,100 | 40.12 | 201,100 | 0.0070 | 10,100 | 2,00,00 |
| Energy Charge | | | | | | | | | | |
| First 100 kW | 121,456,449 | \$0,03567 | 4,332,352 | 73.19% | 121,456,449 | \$0.03567 | 4,332,352 | 67.33% | | 0.00% |
| FISC TOO KVV | 121,400,440 | \$0,0001 | 4,002,002 | 10.1070 | 121,400,440 | 40.03007 | 4,002,002 | 07.0076 | | 0.0070 |
| Total Baseload Charges | | | \$5,919,630 | 100.00% | | - | 6,434,074 | 100.00% | 514,444 | 8.69% |
| rotal paseload Charges | | | 40,818,030 | 100.0070 | | - | 0,404,074 | 100,00% | च । म _ा म्मम | 0.00/0 |
| Fuel adjustment | | | 938,402 | | | | 938,402 | | | 0.00% |
| Fuel adjustment | | | 938,402 492,621 | | • | | 492,621 | | * | 0.00% |
| Environmental surcharge | | | | | | | | | | V.UV 70 |
| | | | 702,021 | | | - | | | | |
| Total Revenues | | | \$7,350,653 | | | • | 7,865,097 | • | 514,444 | 7.00% |

56,111.86

Schedule B-2 Large Industrial Rate Rate 28

| ! | Existing | | | | Proposed | | | | \$ Increase | % Increase |
|--|-------------------------|------------------|------------------------|-----------------|-------------------------|------------------|------------------------|-----------------|------------------|------------------|
| | Billing Determinants | Current Rate | Annualized Revenues | % of Total | Billing Determinants | Proposed Rate | Annualized Revenues | % of Total | | |
| Customer Charge | 12 | \$1,069.00 | \$12,828 | 0,64% | 12 | \$1,069 | 12,828 | 0.59% | • | 0.00% |
| Demand Charge Excess Demand | 87,600 2,899 | \$5.39 \$7.82 | 472,164 22,670 | 23.57% 1.13% | 87,600 2,899 | \$7.29 \$9.72 | 638,604 28,178 | 29.36% 1.30% | 166,440 5,508 | 35.25% 24.30% |
| Energy Charge Per kWh | 48,771,157 | \$0.03067 | 1,495,811 | 74.66% | 48,771,157 | \$0.03067 | 1,495,811 | 68.76% | • | 0.00% |
| Total Baseload Charges | | - | \$2,003,474 | 100.00% | | • | 2,175,422 | 100.00% | 171,948 | 8.58% |
| Fuel adjustment Environmental surcharge | | _ | 374,879 175,004 | | | | 374,879 175,004 | | * | 0.00% 0.00% |
| Total Revenues | | | \$2,553,357 | | | : | 2,725,305 | | 171,948 | 6.73% |
| Average Bill | | | \$ 212,779.71 | | | | 227,109 | | 14,329.01 | 6.73% |

Non "B' & "C' Energy

| | | Exis | sting | | | Propo | sed | | \$ Increase 9 | Increase |
|-----------------------------------|--------------|---------|------------|---------|--------------|----------|------------|---------|---------------|----------|
| Rate 3, Outdoor & Street Lighting | Billing | Current | Annualized | % of | Billing | Proposed | Annualized | % of | | |
| | Determinants | Rate | Revenues | Total | Determinants | Rate | Revenues | Total | | |
| 100 Watt HPS Security light | 42,550 | \$6.51 | 277,001 | 82.67% | 42,550 | 6.64 | 282,603 | 82.49% | 0.13 | 2.02% |
| 250 Watt Directional Flood | 3,288 | \$9.26 | 30,447 | 9.09% | 3,288 | 9.55 | 31,413 | 9.17% | 0,29 | 3.17% |
| 100 Watt Decorative Colonial | . 828 | \$8.90 | 7,369 | 2.20% | 828 | 9.03 | 7,478 | 2.18% | 0.13 | 1.48% |
| 400 Watt Directional Flood | 1,512 | \$12.39 | 18,734 | 5.59% | 1,512 | 12.93 | 19,545 | 5.71% | 0.54 | 4.33% |
| 150 Watt Decorative Acorn | 144 | \$10.51 | 1,513 | 0.45% | 144 | 10.71 | 1,542 | 0.45% | 0.20 | 1.86% |
| Total Base Rates | 48,322 | | 335,064 | 100.00% | 48,322 | | 342,580 | 100.00% | \$7,516 | 2.24% |
| FAC | | | 1,031 | | | | 1,031 | | | |
| ES | | | 1,579 | | | | 1,579 | | | |
| Total | | | 337,674 | | | | 345,190 | | 7,516 | 2.23% |
| Average Bill | | | 6.99 | | | | 7.14 | | 0.16 | 2.23% |

Analysis of Wholesale to Retail Proportionality

| | 63 | | 90 | |
|-----------|-------------------|---|---|--|
| | Change | 69 69 | \$1.90 | |
| | Existing Proposed | \$7.18/Mo \$7.18/Mo | \$7.29 | ollar y kWh. |
| Retail | Existing | \$7.18/Mo \$7.18/Mo | \$5.39 | s based on the de retail, divided b |
| | | Customer Charge 1 Residential Customer Charge 1 Residential | \$1.90 Industrial Rate (\$/kW) | The non-industrial retail increase was based on the dollar amount remaining to be recovered at retail, divided by kWh |
| | Change | ; ; | \$1.90 | lar kWh. |
| | Proposed | \$125/Mo. \$944/Mo. | | used on the dollar ule, divided by kWh. |
| Wholesale | Existing | \$125/Mo. \$944/Mo. | | crease was be ed at wholese |
| Α | | I Customer Charge Metering Point Charge Substation at less than 3 MVA | II Demand Charge B&C Demand Charge (\$/kW) | III Energy Charge The non-industrial wholesale increase was based on the dollar amount remaining to be recovered at wholesale, divided by kV |