

Petitioner's Exhibit No. 4 Cause No. 45052-ECA-1 Vectren South Page 1 of 9

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY d/b/a VECTREN ENERGY DELIVERY OF INDIANA, INC., A CENTERPOINT ENERGY COMPANY (VECTREN SOUTH)

IURC CAUSE NO. 45052-ECA-1

IURC PETITIONER'S

REPORTER

DIRECT TESTIMONY

OF

J. CAS SWIZ

DIRECTOR, REGULATORY AND RATES

ON

PROPOSED ECA RATES AND CHARGES

SPONSORING PETITIONER'S EXHIBIT NO. 4, ATTACHMENTS JCS-1 THROUGH JCS-3

| | | DIRECT TESTIMONY OF J. CAS SWIZ |
|----|----|--|
| 1 | I. | INTRODUCTION |
| 2 | | |
| 3 | Q. | Please state your name and business address. |
| 4 | A. | My name is J. Cas Swiz. My business address is One Vectren Square, Evansville |
| 5 | | Indiana 47708. |
| 6 | | |
| 7 | Q. | By whom are you employed? |
| 8 | A. | I am employed by CenterPoint Energy, Inc. ("CenterPoint"). Southern Indiana Gas |
| 9 | | and Electric Company d/b/a Vectren Energy Delivery of Indiana, Inc. ("Petitioner", |
| 10 | | "Vectren South" or "the Company") is a subsidiary of CenterPoint. |
| 11 | | |
| 12 | Q. | What position do you hold with Petitioner Vectren South? |
| 13 | A. | I am Director, Regulatory and Rates for CenterPoint, the immediate parent company |
| 14 | | of Vectren South. I hold the same position with two other utility subsidiaries of |
| 15 | | CenterPoint – Indiana Gas Company, Inc. d/b/a Vectren Energy Delivery of Indiana |
| 16 | | Inc. ("Vectren North") and Vectren Energy Delivery of Ohio, Inc. ("Vectren Ohio"). |
| 17 | | |
| 18 | Q. | Please describe your educational background. |
| 19 | A. | I am a 2001 graduate of the University of Evansville with a Bachelor of Science degree |
| 20 | | in Accounting, and a 2005 graduate of the University of Southern Indiana with a Master |
| 21 | | of Business Administration. |
| 22 | | |
| 23 | Q. | Please describe your professional experience. |
| 24 | Α. | From 2001 to 2003, I was employed by ExxonMobil Chemical as a Product and |
| 25 | | Inventory accountant. Since 2003, I have been employed with Vectren Corporation |
| 26 | | ("Vectren") and CenterPoint in various accounting capacities. In 2008, I was named |
| 27 | | Manager, Regulatory and Utility Accounting, and in November 2012, I was named |
| 28 | | Director, Regulatory Implementation and Analysis. In August 2015, I was named |
| 29 | | Director, Rates and Regulatory Analysis. I was named to my current position in |
| 30 | | February 2019. |

Q. What are your present duties and responsibilities as Director, Regulatory andRates?

A. I am responsible for the Indiana and Ohio regulatory and rate matters of the regulated utilities within CenterPoint in proceedings before the Indiana and Ohio utility regulatory commissions. I also have responsibility for the implementation of all regulatory initiatives of Vectren South (and other utility subsidiaries in Indiana and Ohio), as well as the preparation of accounting exhibits submitted in various regulatory proceedings.

Α.

Q. Have you ever testified before any state regulatory commission?

Yes. I have testified before the Indiana Utility Regulatory Commission ("IURC" or "Commission") on behalf of Vectren South in its prior Electric Transmission, Distribution, and Storage System Improvement Charge ("TDSIC") proceedings under Cause No. 44910. I have also testified on behalf of Vectren South in its request for approval of certain projects to comply with Federally Mandated requirements in cause No. 45052. I have also testified on behalf of Vectren South and Vectren North in its Gas TDSIC proceedings, Cause No. 44429 (Vectren South) and Cause No. 44430 (Vectren North). I have testified on behalf of Vectren South and Vectren North in its Gas Cost Adjustment ("GCA") proceedings Cause No. 37366 (Vectren South) and Cause No. 37394 (Vectren North) and on behalf of Vectren South in its Fuel Adjustment Clause ("FAC") proceeding, Cause No. 38708. I have also testified before the Public Utilities Commission of Ohio on behalf of Vectren Ohio.

A.

Q. What is the purpose of your testimony in this proceeding?

I will support Vectren South's request to update the Environmental Cost Adjustment ("ECA") as previously approved by the Commission in Cause No. 45052 on April 24, 2019 (the "Order") under Ind. Code 8-1-8.4 ("Federal Mandate Statute"). I will provide a brief description of the authority granted by the Commission for recovery of costs associated with two defined projects: (1) the F.B. Culley Unit 3 Environmental Compliance Project ("Culley 3 Project") approved in the Order; and (2) the projects associated with the Mercury and Air Toxics Standards ("MATS"), National Pollutant Discharge Elimination System ("NPDES"), and the Environmental Protection Agency ("EPA") Notice of Violation ("NOV") (collectively the "MATS Projects") approved in Cause No. 44446. I will also discuss the inclusion in the ECA of the pending Closure

| 1 | | by Removal Project ("CBR Project") of the A.B. Brown coal ash pond to comply with |
|----|-----|---|
| 2 | | the EPA Coal Combustion Residual ("CCR") rule filed under Cause No. 45280 ("Brown |
| 3 | | Pond Project"). I will support Vectren South's request to (1) recover 80% of the |
| 4 | | calculated revenue requirement of the three defined projects (collectively the "ECA |
| 5 | | Projects"), and (2) defer 20% of the calculated revenue requirement for future recovery |
| 6 | | in Vectren South's next general rate case. |
| 7 | | |
| 8 | | Finally, I will support the updated ECA rates and charges and request approval for the |
| 9 | | costs incurred through December 31, 2019 to be recovered in the ECA, with such rates |
| 10 | | and charges approved in this proceeding implemented no earlier than August 1, 2020 |
| 11 | | and remaining in effect until replaced in a subsequent ECA filing. |
| 12 | | |
| 13 | Q. | Are you sponsoring any exhibits in this proceeding? |
| 14 | A. | Yes. I am sponsoring the following exhibits in this proceeding: |
| 15 | | • Petitioner's Exhibit No. 4, Attachment JCS-1: ECA rate derivation, Schedules 1- |
| 16 | | 3 |
| 17 | | • Petitioner's Exhibit No. 4, Attachment JCS-2: Proposed ECA Tariff Sheet, Pages |
| 18 | | 1 and 2. |
| 19 | | • Petitioner's Exhibit No. 4, Attachment JCS-3: ECA Bill Impacts by Customer |
| 20 | | Class |
| 21 | | |
| 22 | Q. | Were these exhibits prepared by you or under your supervision? |
| 23 | A. | Yes, they were. |
| 24 | | |
| 25 | | |
| 26 | II. | BACKGROUND |
| 27 | | |
| 28 | Q. | Please summarize the statutory authority that allows Vectren South to seek |
| 29 | | approval of a rate adjustment mechanism associated with the ECA Projects. |
| 30 | A. | In accordance with the authority granted by the Commission in the Order, Vectren |
| 31 | | South is requesting approval and subsequent timely recovery and deferred accounting |
| 32 | | treatment of the costs of the ECA Projects, pursuant to the Federal Mandate Statute |

which allows for the timely recovery of eighty percent (80%) of the revenue requirement associated with approved federally mandated costs through a periodic retail rate adjustment mechanism (Ind. Code § 8-1-8.4-7(c)(1)). Vectren South is proposing to include these costs within the ECA, as described further below and within the testimony of Vectren South Witness Angie M. Bell, with the remaining twenty percent (20%) of the revenue requirement deferred and recovered by the Company as part of its next general base rate case (Ind. Code § 8-1-8.4-7(c)(2)).

III. RATEMAKING TREATMENT

A.

Q. Please summarize the Commission's findings in the Order related to ratemaking and the applicable statutory authority.

In Cause No. 45052, Vectren South was authorized accounting authority for, and subsequent recovery of, costs specific to the Culley 3 Project. In addition, the Order approved the recovery of the capital investments, inclusive of return, and the deferred costs associated with the MATS Projects originally approved in Cause No. 44446. The accounting authority approved includes the timely recovery within the ECA of eighty percent (80%) of the revenue requirement associated with the ECA Projects and Operations and Maintenance ("O&M") expenses, and deferral of the remaining twenty percent (20%) of the revenue requirement until Vectren South's next base rate case. Finally, in Cause No, 45280, Vectren South requested accounting authority and subsequent recovery within the ECA of the costs associated with the Brown Pond Project. A Stipulation and Settlement was filed in this proceeding, and Vectren South is awaiting an order from the Commission.

- Q. Is Vectren South including costs associated with the pending Brown Pond
 Project in this ECA proceeding?
- 29 A. Yes.

31 Q. If an Order in Cause No. 45280 is not issued prior to the effective date of the 32 proposed rates in the ECA proceeding, will Vectren South adjust this filing to 33 remove the Brown Pond Project? 1 A. Yes. If an Order is not received, or the Commission does not approve the Settlement 2 in Cause No. 45280, Vectren South will adjust the proposed ECA rates and charges 3 to remove this project.

4

- Q. Please explain the specific ratemaking treatment Vectren South is requesting in
 this case.
- 7 A. Consistent with the terms of the Order, Vectren South is proposing the following ratemaking treatment in accordance with the statutes previously discussed:
 - 1. Recovery via the ECA of 80% of eligible revenue requirement amounts, as supported by Vectren South Witness Bell, as of December 31, 2019.
 - 2. Deferral of 20% of eligible revenue requirement amounts as of December 31, 2019 for subsequent recovery in a base rate case.

121314

9

10

11

IV. VARIANCES, ALLOCATIONS, AND RATE DERIVATION

15 16

- 17 Q. Please describe Schedule 1 (Actual Variances by Rate Schedule).
- 18 A. Schedule 1 calculates the over or under-recovery variance by comparing actual 19 recoveries, exclusive of Indiana Utility Receipts Tax ("IURT"), to the approved 20 recoveries from the ECA for the twelve-months ended December 31, 2019. Actual 21 recoveries represent billed ECA revenues from the Company's customer billing 22 system by month and by Rate Schedule for this period. The over or under-recovery 23 variance is determined by month and by Rate Schedule. The specific identification of 24 the variance by Rate Schedule ensures that customers are paying for only the costs 25 allocated to and approved for recovery from that Rate Schedule. As the ECA will be 26 aggregated to recover the costs associated with three ECA Projects, the variance will 27 not be specifically identified by project.

- Q. How were the approved recoveries determined for the ECA-1 reconciliation period (January 2019 through December 2019)?
- 31 A. The approved recoveries for the ECA-1 reconciliation period represent the ECA-0 32 approved amounts for January 2019 through December 2019, noted in ECA-0 33 Attachment JCS-1, Schedule 14.

2 Q. How was the variance calculated for the ECA-1 reconciliation period?

A. The Total Variance, noted on line 40 of Schedule 1, was calculated by subtracting the actual recoveries for the reconciliation period, exclusive of IURT (lines 14 through 25), from the approved recoveries (line 27 through 38). The resulting variance is an under recovery of \$3,652,235 and will be collected from customers in the ECA-1 rates and charges over a one-year period.

 Α.

Q. How will the approved recoveries be determined for ECA-1 to be reconciled in ECA-2?

As reflected on Schedule 3, approved recoveries represent the amounts the Company expects to collect each month. These approved recoveries are calculated by multiplying the billing determinants by month by the applicable rates and charges for the ECA period. Any under recoveries resulting from instances in which ECA rates and charges are not in place for the full period will be recovered as an under-recovery variance in a subsequent ECA proceeding.

Α.

Q. Please describe Schedule 2 (Allocation and Rate Derivation).

Schedule 2 shows the allocation of the ECA revenue requirement and the derivation of ECA rates and charges by Rate Schedule, including the variance calculated on Schedule 1. The schedule is divided into two sections to reflect the allocation percentages applicable to ECA costs and the inclusion of the specifically identified variances from Schedule 1 to derive the proposed ECA charges by Rate Schedule.

Lines 1 through 7 show the derivation of the revenue requirement component of the ECA. The allocation percentages listed in Column A reflect the four-coincident peak ("4CP") allocation percentages for Vectren South currently approved for the ECA in Cause No. 45052:

| | Cause No | o. 43839 | | Modifie | d 4CP |
|------------------|----------------|-------------------------------|-------------------------|----------------------------|-------------------------------|
| Rate Schedule | Demand (kW) | Original 4CP Allocation | Shift in Demand (kW) | Modified Demand (kW) | Modified 4CP Allocation |
| RS | 464,042 | 40.4145% | | 464,042 | 43.1221% |
| В | 1,406 | 0.1225% | | 1,406 | 0.1307% |
| SGS | 19,622 | 1.7089% | | 19,622 | 1.8234% |
| DGS/MLA | 300,282 | 26.1523% | | 300,282 | 27.9043% |
| OSS | 23,196 | 2.0202% | | 23,196 | 2.1556% |
| LP/BAMP | 218,745 | 19.0511% | 39,190 | 257,935 | 23.9692% |
| HLF | 120,912 | 10.5305% | (111,284) | 9,628 | 0.8947% |
| | 1,148,205 | 100.0000% | (72,094) | 1,076,111 | 100.0000% |

These allocation percentages are applied to the total ECA revenue requirement from AMB-1, Schedule 1, Line 18 to determine the amounts recoverable from each Rate Schedule (Column B). The amounts allocated to each Rate Schedule are divided by the estimated energy (kWh) sales in Column C to determine the per unit ECA rates and charges excluding IURT in Column D.

Lines 9 through 15 of Schedule 2 shows the derivation of the variance component of the ECA rate, using the specific variance amounts by Rate Schedule from Schedule 1. The variance component of the ECA will be collected in a subsequent ECA filing over twelve months.

Lines 17 through 23 sum the revenue requirement and variance amounts to determine the total rate (Column D). The calculated rates in Column D are grossed up for IURT to determine the rates proposed in the Tariff in Column D, lines 25 through 31.

Q. Please describe Schedule 3 of Attachment JCS-1 (Projected Recoveries by Month).

A. Schedule 3 calculates the ECA recoveries by month. These are the expected monthly recoveries of the approved ECA revenue requirement to which actual ECA revenues will be compared for reconciliation purposes.

V. TARIFF PROPOSAL AND MODIFICATIONS

- 2 Q. Please describe Petitioner's Exhibit No. 4, Attachment JCS-2.
- A. Attachment JCS-2 is the proposed Vectren South Tariff Sheet, Sheet No. 69 –
 Appendix E, containing the ECA rates and charges proposed herein. Both redlined
 and clean versions of Sheet No. 69 are included. The redlined version contains
 changes proposed in Cause No. 45280, pending Commission approval, as well as
 proposed changes in this proceeding.

- 9 Q. If an Order in Cause No. 45280 is not issued prior to the effective date of the 10 proposed rates in the ECA proceeding, will Vectren South adjust this filing to 11 revise Petitioner's Exhibit No. 4, Attachment JCS-2?
- 12 A. Yes. If an Order is not received, or the Commission does not approve the Settlement 13 in Cause No. 45280, Vectren South will adjust this attachment to remove changes 14 proposed in Cause No. 45280 and correct the rates and charges proposed in this 15 proceeding.

16 17

VI. AVERAGE ANNUAL BILLING IMPACT

18 19

- Q. If the Commission approves Vectren South's proposed ECA Adjustment, what
 will be the average annual billing impact on all customer classes?
- Attachment JCS-3, Schedule 1 summarizes the estimated annual impact of the projects on customers by rate class. As requested, the ECA adjustment applicable to Residential customers would increase by \$0.003599 per kWh, from \$0.003173 per kWh to \$0.006772 per kWh. The monthly bill during the ECA period for a Residential customer using 1,000 kWh would increase by \$3.60 under the Company's proposal.

27

28 29

VII. CONCLUSION

- 31 Q. Does this conclude your prepared direct testimony?
- 32 A. Yes, it does.

VERIFICATION

The undersigned, J. Cas Swiz, affirms under the penalties of perjury that the answers in the foregoing Direct Testimony in Cause No. 45052-ECA-1 are true to the best of his knowledge, information and belief.

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY D/B/A VECTREN ENERGY DELIVERY OF INDIANA, INC., A CENTERPOINT ENERGY COMPANY

J. Cas Swiz J. Cas Swiz

Director, Regulatory and Rates

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY d/b/a VECTREN ENERGY DELIVERY OF INDIANA, INC. VECTREN SOUTH ENVIRONMENTAL COST ADJUSTMENT ACTUAL VARIANCES BY RATE SCHEDULE THROUGH DECEMBER 31, 2019

| | | | Α | В | | | С | | D | | E | | F | | G | н | 1 |
|------|---|----|--------------|---|--------|----|---------|----|--------------|----|--------|----|-----------|----|--------|-----------------|-------------------|
| Line | Description | | | | | | | Ra | ate Schedule | | | | | | | Total | Reference |
| | Actual Recoveries (Inclusive of IURT) | | RS | В | | | SGS | | OGS / MLA | | oss | L | P / BAMP | | HLF | | |
| 1 | ` Jan-19 | \$ | - \$ | | _ | \$ | _ | \$ | _ | \$ | - | \$ | - : | \$ | - | \$ - | (A) |
| 2 | Feb-19 | \$ | - \$ | | _ | \$ | _ | \$ | | \$ | _ | \$ | - 5 | | _ | \$ _ | (A) |
| 3 | Mar-19 | \$ | - \$ | | _ | Š | _ | \$ | _ | \$ | _ | \$ | - 3 | | _ | \$ _ | (A) |
| 4 | Apr-19 | \$ | - \$ | | _ | s | _ | \$ | _ | \$ | _ | \$ | - 9 | • | _ | \$ _ | (A) |
| 5 | | \$ | 99,784 \$ | | 375 | \$ | 4,312 | \$ | 65,646 | \$ | 3,850 | \$ | 172,549 | | 7,740 | \$ 354,257 | (A) |
| | May-19 | | | | | - | | | | | | | | | | | |
| 6 | Jun-19 | \$ | 371,771 \$ | | 947 | \$ | 14,109 | \$ | | \$ | | \$ | 198,601 | | 7,543 | \$ 839,057 | (A) |
| 7 | Jul-19 | \$ | 457,608 \$ | | 896 | \$ | 15,762 | \$ | | \$ | | \$ | 206,728 | | 5,746 | \$ 936,092 | (A) |
| 8 | Aug-19 | \$ | 508,692 \$ | | 891 | \$ | 17,459 | \$ | | \$ | | \$ | 214,993 | | 7,576 | \$ 1,052,544 | (A) |
| 9 | Sep-19 | \$ | 474,296 \$ | | 897 | \$ | 22,367 | \$ | 264,098 | \$ | 17,540 | \$ | 232,966 | \$ | 6,779 | \$ 1,018,943 | (A) |
| 10 | Oct-19 | \$ | 374,777 \$ | | 807 | \$ | 12,873 | \$ | 237,031 | \$ | 15,621 | \$ | 188,343 | \$ | 7,622 | \$ 837,074 | (A) |
| 11 | Nov-19 | \$ | 282,626 \$ | | 904 | \$ | 19,317 | \$ | 197,503 | \$ | 15,468 | \$ | 161,141 | \$ | 7.253 | \$ 684,213 | (A) |
| 12 | Dec-19 | \$ | 335,468 \$ | | 1.035 | \$ | 11,229 | \$ | | \$ | 17,904 | \$ | 156,885 | | 7,464 | \$ 713,331 | (A) |
| 13 | Total Actual Recoveries Inclusive of IURT | \$ | 2,905,023 \$ | | | \$ | 117,427 | \$ | | \$ | | \$ | 1,532,206 | | 57,724 | \$ 6,435,511 | Sum Lines 1-12 |
| | Actual Recoveries (Exclusive of IURT) | | RS | В | | | SGS | I | DGS / MLA | | oss | L | P / BAMP | | HLF | | |
| 14 | Jan-19 | \$ | - \$ | | _ | \$ | _ | \$ | - | \$ | - | \$ | - : | \$ | - | \$ - | Line 1 x 0.9852 |
| 15 | Feb-19 | \$ | - \$ | | _ | \$ | _ | \$ | | \$ | _ | s | - : | \$ | - | \$ _ | Line 2 x 0.9852 |
| 16 | Mar-19 | \$ | - \$ | | _ | \$ | _ | Š | _ | \$ | _ | Š | | | | \$ | Line 3 x 0.9852 |
| 17 | Apr-19 | \$ | - \$ | | | \$ | | \$ | | \$ | | S | - ; | • | | \$ | Line 4 x 0.9852 |
| | | | | | 369 | \$ | 4040 | \$ | 64,675 | \$ | 3,793 | \$ | 169,995 | * | 7,626 | \$ 349,014 | Line 5 x 0.9852 |
| 18 | May-19 | \$ | | | | | 4,248 | | | | | | | • | | | |
| 19 | Jun-19 | \$ | 366,269 \$ | | 933 | \$ | 13,901 | \$ | | \$ | | \$ | 195,662 | • | 7,431 | \$ 826,639 | Line 6 x 0.9852 |
| 20 | Jul-19 | \$ | 450,835 \$ | | 882 | \$ | 15,529 | \$ | | \$ | 14,667 | | 203,668 | | 5,661 | \$ 922,238 | Line 7 x 0.9852 |
| 21 | Aug-19 | \$ | 501,164 \$ | | 878 | \$ | 17,201 | \$ | | \$ | | \$ | 211,811 | | 7,464 | \$ 1,036,967 | Line 8 x 0.9852 |
| 22 | Sep-19 | \$ | 467,276 \$ | | 884 | \$ | 22,036 | \$ | 260,190 | \$ | 17,280 | \$ | 229,519 | \$ | 6,679 | \$ 1,003,863 | Line 9 x 0.9852 |
| 23 | Oct-19 | \$ | 369,230 \$ | | 795 | \$ | 12,682 | \$ | 233,523 | \$ | 15,390 | \$ | 185,556 | \$ | 7,509 | \$ 824,686 | Line 10 x 0.9852 |
| 24 | Nov-19 | \$ | 278,443 \$ | | 891 | \$ | 19.031 | \$ | 194,580 | \$ | 15,239 | \$ | 158,756 | \$ | 7,146 | \$ 674,086 | Line 11 x 0.9852 |
| 25 | Dec-19 | \$ | 330,503 \$ | | 1,019 | \$ | 11,063 | \$ | 180,633 | \$ | 17,639 | \$ | 154,563 | \$ | 7,354 | \$ 702,774 | Line 12 x 0.9852 |
| 26 | Total Actual Recoveries Exclusive of IURT | \$ | 2,862,028 \$ | | | \$ | 115,689 | \$ | 1,673,190 | | | \$ | 1,509,529 | | 56,870 | \$ 6,340,265 | Sum Lines 14-25 |
| | | | | | | | | | | | | | | | | | |
| | Approved Recoveries (Exclusive of IURT) (A) | | RS | Е | | | SGS | 1 | DGS / MLA | | oss | L | P / BAMP | | HLF | | |
| 27 | Jan-19 | \$ | 464,462 \$ | | 1,466 | \$ | 16,776 | \$ | 223,234 | s | 24,215 | \$ | 183,393 | \$ | 7,228 | \$ 920,773 | (B) |
| 28 | Feb-19 | \$ | 360,058 \$ | | 1,294 | | 15,768 | \$ | 204,895 | | | \$ | 183,836 | | 6,923 | \$ 794,550 | (B) |
| 29 | Mar-19 | \$ | 301,523 \$ | | 1,115 | | 14,423 | \$ | 210,021 | | | \$ | 188,115 | | 7,558 | \$ 741,348 | (B) |
| 30 | Apr-19 | \$ | 259,026 \$ | | 1,113 | | 13,210 | \$ | 206,234 | | | \$ | 196,037 | | 7,390 | \$ 698,392 | (B) |
| | | \$ | | | 1.020 | | 13,487 | \$ | | | | | 206,542 | | 7,403 | \$ | (B) |
| 31 | May-19 | | 302,642 \$ | | | \$ | | | 227,963 | | 14,175 | | | | | 773,231 | |
| 32 | Jun-19 | \$ | 411,194 \$ | | 935 | \$ | 16,034 | \$ | 264,705 | | | \$ | 206,812 | | 7,267 | \$ 923,139 | (B) |
| 33 | Jul-19 | \$ | 510,949 \$ | | 941 | \$ | 17,730 | \$ | 283,738 | | 17,854 | | 212,128 | | 7,331 | \$ 1,050,673 | (B) |
| 34 | Aug-19 | \$ | 458,268 \$ | | 908 | \$ | 16,698 | \$ | 283,775 | | | \$ | 223,663 | | 7,370 | \$ 1,007,548 | (B) |
| 35 | Sep-19 | \$ | 318,788 \$ | | 895 | \$ | 14,259 | \$ | 236,525 | \$ | 14,742 | | 211,677 | | 7,409 | \$ 804,295 | (B) |
| 36 | Oct-19 | \$ | 253,519 \$ | | 958 | \$ | 13,286 | \$ | 215,172 | \$ | 15,181 | \$ | 205,574 | \$ | 7,805 | \$ 711,495 | (B) |
| 37 | Nov-19 | \$ | 278,746 \$ | | 1,080 | \$ | 14,433 | \$ | 198,313 | | 18,312 | \$ | 193,025 | \$ | 7,675 | \$ 711,584 | (B) |
| 38 | Dec-19 | Š | 389,802 \$ | | | Š | 16,099 | \$ | 233,762 | | | \$ | 184,319 | | 8,044 | \$ 855,472 | (B) |
| 39 | Total Approved Recoveries Exclusive of IURT | \$ | 4,308,977 \$ | | 13,060 | | 182,203 | \$ | 2,788,337 | | | \$ | 2,395,122 | | 89,403 | \$ 9,992,500 | Sum Lines 27-38 |
| | | | | | | | | | | | | | | | | | |
| 40 | Total Variance (C) | \$ | 1,446,949 \$ | | 6,408 | \$ | 66,514 | \$ | 1,115,147 | \$ | 99,091 | \$ | 885,593 | \$ | 32,533 | \$ 3,652,235 | Line 39 - Line 26 |
| | Under/(Over) Recovery | | | | | | | | | | | | | | | | |

⁽A) Actual Recoveries represent billed ECA revenues from the company's customer billing system by month and by rate schedule.
(B) Based on prior ECA approvals
(C) To Attachment JCS-1, Schedule 2

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY $\ d/b/a\ VECTREN\ ENERGY\ DELIVERY\ OF\ INDIANA,\ INC.$ **VECTREN SOUTH ENVIRONMENTAL COST ADJUSTMENT** ALLOCATION AND RATE DERIVATION

| | Rate Schedule | A 4CP Allocators | | B Amount | C Projected Billing Quantities (kWh) | | D (Per kWh) | E Reference |
|----|--------------------------|-----------------------|-----|-----------------------|---|----------|----------------|------------------|
| | - Nate Schedule | 401 Allocators | | Amount | Quantities (KVVII) | | (I CI KVVII) | Troidionide |
| | ECA Allocated Revenue I | Requirement | | | | | | |
| 1 | RS | 43.1221% | \$ | 7,649,508 | 1,363,397,280 (D) | \$ | 0.005611 | |
| 2 | В | 0.1307% | \$ | 23,185 | 7,946,703 (D) | \$ | 0.002918 | |
| 3 | SGS | 1.8234% | \$ | 323,456 | 64,732,674 (D) | \$ | 0.004997 | |
| 4 | DGS/MLA | 27.9043% | \$ | 4,949,995 | 1,072,657,787 (D) | \$ | 0.004615 | |
| 5 | OSS | 2.1556% | \$ | 382,386 | 90,731,495 (D) | \$ | 0.004214 | |
| 6 | LP/BAMP | 23.9692% | \$ | 4,251,940 | 2,261,582,856 (D) | \$ | 0.001880 | |
| 7 | HLF | 0.8947% | \$ | 158,712 | 79,734,000 (D) | \$ | 0.001991 | |
| 8 | Total | 100.0000% | \$ | 17,739,182 (A) | | | | |
| | | | | . , | | | | |
| | ECA Allocated Variances | Under//Over) Becayers | | | | | | |
| 9 | RS | Oliden(Over) Recovery | \$ | 1,446,949 | 1,363,397,280 (D) | \$ | 0.001061 | |
| 10 | В | | \$ | 6,408 | 7,946,703 (D) | \$ | 0.000806 | |
| 11 | SGS | | \$ | 66,514 | 64,732,674 (D) | \$ | 0.001028 | |
| 12 | DGS/MLA | | \$ | 1,115,147 | 1,072,657,787 (D) | \$ | 0.001040 | |
| 13 | OSS | | \$ | 99,091 | 90,731,495 (D) | \$ | 0.001092 | |
| 14 | LP/BAMP | | \$ | 885,593 | 2,261,582,856 (D) | \$ | 0.000392 | |
| 15 | HLF | | \$ | 32,533 | 79,734,000 (D) | \$ | 0.000408 | |
| 40 | Total | | | 0.050.005 (8) | | | | |
| 16 | Total | | \$ | 3,652,235 (B) | | | | |
| | Total Excluding IURT | | | | | | | |
| 17 | RS | | \$ | 9,096,457 | - | \$ | 0.006672 | Line 1 + 9 |
| 18 | В | | \$ | 29,593 | | \$ | 0.003724 | Line 2 + 10 |
| 19 | SGS | | \$ | 389,970 | | \$ | 0.006024 | Line 3 + 11 |
| 20 | DGS/MLA | | \$ | 6,065,142 | | \$ \$ | 0.005654 | Line 4 + 12 |
| 21 | oss | | \$ | 481,477 | | \$ | 0.005307 | Line 5 + 13 |
| 22 | LP/BAMP | | \$ | 5,137,533 | | \$ | 0.002272 | Line 6 + 14 |
| 23 | HLF | | _\$ | 191,245 | | \$ | 0.002399 | Line 7 + 15 |
| 24 | Total | | \$ | 21,391,417 | | | | |
| | Total Including IURT (C) | | | | | | | |
| 25 | RS | | | | | \$ | 0.006772 | Line 25 / 0.9853 |
| 26 | В | | | | | \$ | 0.003780 | Line 26 / 0.9853 |
| 27 | SGS | | | | | \$ | 0.006114 | Line 27 / 0.9853 |
| 28 | DGS/MLA | | | | | \$ | 0.005739 | Line 28 / 0.9853 |
| 29 | OSS | | | | | \$ | 0.005386 | Line 29 / 0.9853 |
| 30 | LP/BAMP | | | | | \$ | 0.002306 | Line 30 / 0.9853 |
| 31 | HLF | | | | | \$ | 0.002434 | Line 31 / 0.9853 |
| | | | | | | | | |

Notes:

- (A) From AMB-1, Schedule 1, Line 18
 (B) From JCS-1, Schedule 1, Line 40 amount to be recovered from or passed back to customers over 12-months
 (C) Blended IURT gross up factor of 0.9853
 (D) Based on 2020/21 budgeted annual volumes

Petitioner's Exhibit No. 4 Attachment JCS-1 (Revised) Cause No. 45052-ECA-1 Vectren South Schedule 3 Page 1 of 1

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY d/b/a VECTREN ENERGY DELIVERY OF INDIANA, INC. **VECTREN SOUTH** ENVIRONMENTAL COST ADJUSTMENT PROJECTED RECOVERIES BY MONTH

| Line | Rate Schedule | |
|------|--|-------------|
| | Projections (A) | |
| 1 | RS - Residential Service | kWh |
| 2 | B - Water Heating Service | kWh |
| 3 | SGS - Small General Service | kWh |
| 4 | DGS - Demand General Service / Municipal Levee Authority | kWh |
| 5 | OSS - Off-Season Service | kWh |
| 6 | LP/BAMP - Large Power Service / Backup Auxiliary and Maintenance Power | kWh |
| 7 | HLF - High Load Factor Service | kWh |
| | Applicable Rates (B) | |
| 8 | RS - Residential Service | \$/kWh |
| 9 | B - Water Heating Service | \$/kWh |
| 10 | SGS - Small General Service | \$/kWh |
| 11 | DGS - Demand General Service / Municipal Levee Authority | \$/kWh |
| 12 | OSS - Off-Season Service | \$/kWh |
| 13 | LP/BAMP - Large Power Service / Backup Auxiliary and Maintenance Power | \$/kWh |
| 14 | HLF - High Load Factor Service | \$/kWh |
| | Projected Recoveries | |
| 15 | RS - Residential Service | Line 1 x 8 |
| 16 | B - Water Heating Service | Line 2 x 9 |
| 17 | SGS - Small General Service | Line 3 x 10 |
| 18 | DGS - Demand General Service / Municipal Levee Authority | Line 4 x 11 |
| 19 | OSS - Off-Season Service | Line 5 x 12 |
| 20 | LP/BAMP - Large Power Service / Backup Auxiliary and Maintenance Power | Line 6 x 13 |
| 21 | HLF - High Load Factor Service | Line 7 x 14 |
| 22 | Total Recoveries including variances | |
| 23 | 20% Deferred (based on Revenue Requirement piece only) | |

Notes:

(A) Source: Vectren South 2020/2021 Budget

(B) Exclusive of IURT

(C) Proposed Rates and Charge, multiplied by Estimated Billing Determinants (A)

| | Aug-20 | | Sep-20 | | Oct-20 | | Nov-20 | | Dec-20 | | Jan-21 | | Feb-21 | | Mar-21 | | Apr-21 | | May-21 | | Jun-21 | | Jul-21 | A | nnual Total |
|----------|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|--------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 153,920,056 | | 103,921,697 | | 75,204,810 | | 96,859,338 | | 119,792,656 | | 142,548,027 | | 106,652,310 | | 102,243,175 | | 79,603,413 | | 87,478,027 | | 128,697,361 | | 166,476,411 | 1 | ,363,397,280 |
| | 539,559 | | 557,907 | | 596,021 | | 628,027 | | 750,391 | | 885,317 | | 786,503 | | 725,983 | | 694,066 | | 592,855 | | 620,455 | | 569,619 | | 7,946,703 |
| | 5,964,471 | | 5,075,723 | | 4,719,414 | | 5,137,648 | | 5,744,151 | | 5,963,477 | | 5,597,053 | | 5,107,988 | | 4,665,807 | | 4,764,486 | | 5,687,764 | | 6,304,693 | | 64,732,674 |
| | 114,101,595 | | 92,261,526 | | 80,723,333 | | 82,988,093 | | 82,912,600 | | 87,242,810 | | 72,466,939 | | 80,952,601 | | 75,901,431 | | 88,450,926 | | 100,555,538 | | 114,100,395 | 1 | ,072,657,787 |
| | 7,110,679 | | 6,193,726 | | 6,400,492 | | 7,763,979 | | 9,413,770 | | 10,204,971 | | 9,193,942 | | 7,809,037 | | 6,427,280 | | 5,930,415 | | 6,782,658 | | 7,500,546 | | 90,731,495 |
| | 217,308,701 | | 198,025,891 | | 194,302,573 | | 174,608,985 | | 166,133,907 | | 169,751,995 | | 173,888,936 | | 177,845,309 | | 180,741,971 | | 193,126,819 | | 204,968,209 | | 210,879,562 | 2 | ,261,582,856 |
| | 7,056,000 | | 6,726,000 | | 5,934,000 | | 6,942,000 | | 6,942,000 | | 6,894,000 | | 6,372,000 | | 7,098,000 | | 6,882,000 | | 7,020,000 | | 5,772,000 | | 6,096,000 | | 79,734,000 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| \$ | 0.006672 | \$ | 0.006672 | \$ | 0.006672 | \$ | 0.006672 | s | 0.006672 | \$ | 0,006672 | \$ | 0,006672 | \$ | 0,006672 | \$ | 0,006672 | \$ | 0,006672 | \$ | 0,006672 | \$ | 0,006672 | | |
| \$ | 0.003724 | \$ | 0.003724 | s | 0,003724 | s | 0.003724 | s | 0,003724 | s | 0,003724 | \$ | 0.003724 | \$ | 0,003724 | \$ | 0,003724 | s | 0.003724 | s | 0.003724 | s | 0.003724 | | |
| s | 0,006024 | | 0,006024 | | 0.006024 | | 0.006024 | | 0.006024 | | 0.006024 | | 0.006024 | \$ | 0.006024 | | 0.006024 | | 0.006024 | 5 | 0,006024 | s | 0,006024 | | |
| s | 0.005654 | | 0.005654 | | 0.005654 | | 0.005654 | | 0.005654 | | 0,005654 | | 0,005654 | | 0,005654 | | 0,005654 | | 0.005654 | | 0.005654 | | 0.005654 | | |
| s | 0,005307 | | 0.005307 | | 0.005307 | | 0.005307 | | 0.005307 | | 0.005307 | | 0.005307 | | 0,005307 | | 0.005307 | | 0,005307 | s | 0,005307 | s | 0,005307 | | |
| \$ | 0.002272 | | 0.002272 | | 0.002272 | | 0.002272 | | 0.002272 | | 0,002272 | | 0.002272 | | 0.002272 | | 0.002272 | | 0.002272 | | 0.002272 | | 0.002272 | | |
| s | 0,002399 | | 0,002399 | | 0,002399 | | 0,002399 | | 0.002399 | | 0.002399 | | 0.002399 | | 0.002399 | | 0.002399 | | 0,002399 | | 0.002399 | | 0,002399 | | |
| • | 0,002000 | • | 0,002,000 | • | | Ť | | Ť | | • | | | | | | | | | | | | | | | |
| s | 1,026,940 | | 693,356 | | 501.759 | | 646,236 | | 799,245 | | 951.067 | | 711.574 | | 682,157 | | 531,106 | | 583,645 | | 858,657 | | 1,110,715 | | 9,096,457 |
| \$ | 2,009 | | 2,078 | | 2,220 | | 2,339 | | 2,794 | | 3.297 | | 2.929 | | 2,704 | | 2,585 | | 2,208 | | 2,311 | | 2,121 | | 29,593 |
| | 35,932 | | 30,578 | | 28,431 | | 30,951 | | 34,605 | | 35,926 | | 33,718 | | 30,772 | | 28,108 | | 28,703 | | 34,265 | | 37,981 | | 389,970 |
| \$ \$ | 645,166 | | 521,675 | | 456,435 | | 469,241 | | 468,814 | | 493,298 | | 409,751 | | 457,731 | | 429,170 | | 500,129 | | 568,572 | | 645,159 | | 6,065,142 |
| э 5 | 37,734 | | 32,868 | | 33,965 | | 41,200 | | 49,955 | | 54,154 | | 48,789 | | 41,440 | | 34,107 | | 31,470 | | 35,993 | | 39,802 | | 481,477 |
| | 493.650 | | 449.846 | | 441,388 | | | s | 377,399 | | 385,618 | | 395,015 | | 404,003 | | 410,583 | | 438,717 | | 465,617 | | 479,045 | | 5,137,533 |
| \$ | , | | | | | | | | | | | | | | , | | | | 16.838 | | | | | | 191,245 |
| _\$ | 16,924 | ş | 16,133 | | 14,233 | \$ | 16,651 | \$ | 16,651 | 4 | 16,536 | Ф | 15,283 | Φ | 17,025 | • | 16,507 | Φ | 10,838 | • | 13,844 | φ | 14,621 | φ | 191,245 |
| \$ | 2,258,355 | \$ | 1,746,533 | \$ | 1,478,431 | \$ | 1,603,269 | \$ | 1,749,462 | \$ | 1,939,895 | \$ | 1,617,060 | \$ | 1,635,831 | \$ | 1,452,167 | \$ | 1,601,710 | \$ | 1,979,258 | \$ | 2,329,446 | \$ | 21,391,417 |
| \$ | 468,520 | \$ | 361,902 | \$ | 305,968 | \$ | 332,182 | \$ | 362,864 | \$ | 402,660 | \$ | 335,354 | \$ | 339,066 | \$ | 300,705 | \$ | 331,644 | \$ | 410,442 | \$ | 483,489 | \$ | 4,434,796 |

Southern Indiana Gas and Electric Company D/B/A Vectren Energy Delivery of Indiana, Inc. (Vectren South) Tariff for Electric Service I.U.R.C. No. E-13 Sheet No. 69

Second Revised Page 1 of 1

Cancels First Revised Page 1 of 1

APPENDIX E ENVIRONMENTAL COST ADJUSTMENT

APPLICABILITY

The Environmental Cost Adjustment ("ECA") shall be applicable to all Customers on the Rate Schedules set forth in the ECA Rates section below.

DESCRIPTION

The ECA shall recover, as approved by the Commission:

- (1) In Cause No. 45052, recovery of costs associated with Company's Culley 3 Project pursuant to Ind. Code § 8-1-8.4-7.
- (2) In Cause No. 45052, recovery of costs associated with Company's MATS Projects pursuant to Ind. Code § 8-1-8.4-7.
- (3) In Cause No. 45280, recovery of costs associated with Company's Brown Pond Project pursuant to Ind. Code § 8-1-8.4-7.
- (4) Any other projects approved to be recovered through the ECA

Reconciliation

Company's actual ECA costs shall be reconciled annually with actual ECA recoveries, with any differences being reflected as a charge or credit in a subsequent ECA.

Allocation Percentages

ECA costs shall be allocated to the Rate Schedules based on the percentages approved in Cause No. 45052 and shown in the ECA Rates section below.

ECA RATES

The ECA shall be applied to each kWh of electric usage as applicable. The current ECA rates and charges by Rate Schedule are set forth below:

| Rate <u>Schedule</u> | Allocation Percentage(4 CP) | Charge <u>Adjusted</u> | ECA Rate (\$ per KWh) |
|-------------------------|--------------------------------|---------------------------|--------------------------|
| RS | 43.1221% | Energy | \$0.006772 |
| В | 0.1307% | Energy | \$0.003780 |
| SGS | 1.8234% | Energy | \$0.006114 |
| DGS/MLA | 27.9043% | Energy | \$0.005739 |
| OSS | 2.1556% | Energy | \$0.005386 |
| LP | 23.9692% | Energy | \$0.002306 |
| HLF | 0.8947% | Energy | \$0.002434 |

Southern Indiana Gas and Electric Company D/B/A Vectren Energy Delivery of Indiana, Inc. (Vectren South) Tariff for Electric Service I.U.R.C. No. E-13 Sheet No. 69
Second Revised Page 1 of 1
Cancels First Revised Page 1 of 1

Deleted: First
Deleted: Original

APPENDIX E ENVIRONMENTAL COST ADJUSTMENT

APPLICABILITY

The Environmental Cost Adjustment ("ECA") shall be applicable to all Customers on the Rate Schedules set forth in the ECA Rates section below.

DESCRIPTION

The ECA shall recover, as approved by the Commission:

- (1) In Cause No. 45052, recovery of costs associated with Company's Culley 3 Project pursuant to Ind. Code § 8-1-8.4-7.
- (2) In Cause No. 45052, recovery of costs associated with Company's MATS Projects pursuant to Ind. Code § 8-1-8.4-7.
- (3) In Cause No. 45280, recovery of costs associated with Company's Brown Pond Project pursuant to Ind. Code § 8-1-8.4-7.
- (4) Any other projects approved to be recovered through the ECA

Reconciliation

Company's actual ECA costs shall be reconciled annually with actual ECA recoveries, with any differences being reflected as a charge or credit in a subsequent ECA.

Allocation Percentages

ECA costs shall be allocated to the Rate Schedules based on the percentages approved in Cause No. 45052 and shown in the ECA Rates section below.

FCA RATES

The ECA shall be applied to each kWh of electric usage as applicable. The current ECA rates and charges by Rate Schedule are set forth below:

| Rate <u>Schedule</u> | Allocation Percentage(4 CP) | Charge <u>Adjusted</u> | ECA Rate (\$ per KWh) | | |
|-------------------------|-----------------------------|---------------------------|--|------|--------------------------|
| RS | 43.1221% | Energy | \$0.006772 | { | Deleted: 0.006915 |
| В | 0.1307% | Energy | \$ 0.003780 | | Deleted: 0.003854 |
| SGS | 1.8234% | Energy | \$ 0.006114 | | Deleted: 0.006242 |
| DGS/MLA | 27.9043% | Energy | \$ 0.005739 | | Deleted: 0.005857 |
| OSS | 2.1556% | Energy | \$ 0.005386 | | |
| LP | 23.9692% | Energy | \$ 0.002306 | 17.7 | Deleted: 0.005494 |
| HLF | 0.8947% | Energy | \$0.002434 | | Deleted: 0.002354 |
| | | • | Company of the Compan | | Deleted: 0.002485 |

Effective:

Petitioner's Exhibit No. 4 Attachment JCS-3 (Revised) Cause No. 45052-ECA-1 Vectren South Schedule 1 Page 1 of 1

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY d/b/a VECTREN ENERGY DELIVERY OF INDIANA, INC. VECTREN SOUTH ENVIRONMENTAL COST ADJUSTMENT BILL IMPACT BY CUSTOMER CLASS

A B C D

Line No.

| | | Allocation by Rate | Reve | nue Requirement | |
|---|---------------|--------------------|------|-----------------|----------------------------|
| | Rate Schedule | Schedule | by | Rate Schedule | Reference |
| 1 | Rate RS | 43.1221% | \$ | 9,096,457 | JCS-1, Schedule 2, Line 17 |
| 2 | Rate B | 0.1307% | \$ | 29,593 | JCS-1, Schedule 2, Line 18 |
| 3 | Rate SGS | 1.8234% | \$ | 389,970 | JCS-1, Schedule 2, Line 19 |
| 4 | Rate DGS/MLA | 27.9043% | \$ | 6,065,142 | JCS-1, Schedule 2, Line 20 |
| 5 | Rate OSS | 2.1556% | \$ | 481,477 | JCS-1, Schedule 2, Line 21 |
| 6 | Rate LP/BAMP | 23.9692% | \$ | 5,137,533 | JCS-1, Schedule 2, Line 22 |
| 7 | Rate HLF | 0.8947% | \$ | 191,245 | JCS-1, Schedule 2, Line 23 |
| 8 | Total | 100.0000% | \$ | 21,391,417 | |

| | Rate Class | Allocation by Rate Class (A) | evenue Requirement by Rate Class (A) | Annual Revenues (B) | % Revenue Change by Rate Class (C) |
|----|-------------|--|--|---------------------|------------------------------------|
| 9 | Residential | 43.2528% | \$ 9,126,050 | \$ 216,149,371 | 4.22% |
| 10 | Commercial | 31.8833% | \$ 6,936,589 | \$ 152,038,076 | 4.56% |
| 11 | Industrial | 24.8639% | \$ 5,328,778 | \$ 163,315,544 | 3.26% |
| 12 | Total | 100.0000% | \$ 21.391.417 | \$ 531.502.991 | - |

Notes:

- (A) Residential = Rate RS + Rate B

 Commercial = Rate SGS + Rate DGS/MLA + Rate OSS
 Industrial = Rate LP/BAMP + Rate HLF
- (B) Revenues for 12 months ending December 31, 2019
- (C) Column [B] divided by Column [C]