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Case Name (if known)	Application of Appalachian Power Company for approval of a rate adjustment clause under Va. Code § 56-585.1 A 4
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BOUNDLESS ENERGY

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240610029

June 3, 2024

By Electronic Filing

The Honorable Bernard J. Logan, Clerk
State Corporation Commission
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**Re: *Application of Appalachian Power Company for approval of a rate
adjustment clause under Va. Code § 56-585.1 A 4***
Case No. PUR-2024-00079

Dear Mr. Logan:

Attached for filing in the above-referenced case is Appalachian Power Company's Application for approval to implement factors to recover its actual and forecast transmission-related costs through its transmission rate adjustment clause pursuant to § 56-585.1 A 4 of the Code of Virginia.

The Company is also filing today under separate cover a Motion for Protective Ruling.

Sincerely,

James G. Ritter

Attachment

cc: William H. Chambliss
 C. Meade Browder, Jr.

COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION

APPLICATION OF

APPALACHIAN POWER COMPANY

CASE NO. PUR-2024-00079

For approval of a rate adjustment clause
under Va. Code § 56-585.1 A 4

APPLICATION

June 3, 2024

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**COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION**

APPLICATION OF

APPALACHIAN POWER COMPANY

CASE NO. PUR-2024-00079

**For approval of a rate adjustment clause
under Va. Code § 56-585.1 A 4**

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COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION

APPLICATION OF

APPALACHIAN POWER COMPANY

CASE NO. PUR-2024-00079

For approval of a rate adjustment clause
under Va. Code § 56-585.1 A 4

APPLICATION

Pursuant to Virginia Code § 56-585.1 A 4 and Rules 20 VAC 5-204-10 and 20 VAC 5-204-60 of the Commission's *Rules Governing Utility Rate Case Applications and Annual Informational Filings of Investor-Owned Electric Utilities* ("Rate Case Rules"), Appalachian Power Company ("Appalachian" or "Company") files this Application for the State Corporation Commission's approval to implement factors to recover a decrease to its revenue requirement through its transmission rate adjustment clause ("T-RAC"). As explained below, Appalachian proposes to decrease the T-RAC revenue requirement by approximately \$33.1 million, from the currently approved revenue requirement of \$413.2 million to \$380.1 million.

By separate motion, the Company requests a protective ruling to expedite disclosure of any confidential information that might be requested in discovery.

I. Introduction and Background

Appalachian is a Virginia public service corporation serving approximately 540,000 customers in Virginia and maintaining an office at 1051 East Cary Street, Suite 1100, Richmond, Virginia 23219. The Company is an incumbent electric utility as defined in § 56-576 of the Virginia Electric Utility Regulation Act. The contact information for Appalachian's attorneys is stated at the end of the Application.

Section 56-585.1 A 4 of the Code of Virginia (“T-RAC Statute”) provides in relevant part that:

The following costs incurred by the utility shall be deemed reasonable and prudent: (i) costs for transmission services provided to the utility by the regional transmission entity of which the utility is a member, as determined under applicable rates, terms and conditions approved by the Federal Energy Regulatory Commission; (ii) costs charged to the utility that are associated with demand response programs approved by the Federal Energy Regulatory Commission and administered by the regional transmission entity of which the utility is a member; and (iii) costs incurred by the utility to construct, operate, and maintain transmission lines and substations installed in order to provide service to a business park. Upon petition of a utility at any time after the expiration or termination of capped rates, but not more than once in any 12-month period, the Commission shall approve a rate adjustment clause under which such costs, including, without limitation, costs for transmission service; charges for new and existing transmission facilities, including costs incurred by the utility to construct, operate, and maintain transmission lines and substations installed in order to provide service to a business park; administrative charges; and ancillary service charges designed to recover transmission costs, shall be recovered on a timely and current basis from customers. Retail rates to recover these costs shall be designed using the appropriate billing determinants in the retail rate schedules.

In 2009, the Commission authorized Appalachian to establish the T-RAC.¹ The Company has made six additional filings,² most recently in 2023, when the Commission authorized the Company to recover approximately \$413.2 million annually.³

¹ *Petition of Appalachian Power Company, For approval of rate adjustment clause pursuant to § 56-585.1 A 4 of the Code of Virginia*, Case No. PUE-2009-00031, 2009 S.C.C. Ann. Rep. 450, Final Order (Oct. 6, 2009).

² *Application of Appalachian Power Company, For approval of rate adjustment clause pursuant to § 56-585.1 A 4 of the Code of Virginia*, Case No. PUE-2013-00111, 2014 S.C.C. Ann. Rep. 322, Final Order (Mar. 18, 2014); *Application of Appalachian Power Company, For approval of rate adjustment clause pursuant to § 56-585.1 A 4 of the Code of Virginia*, Case No. PUE-2015-00086, 2015 S.C.C. Ann. Rep. 370, Final Order (Nov. 4, 2015); *Application of Appalachian Power Company, For approval of a rate adjustment clause pursuant to § 56-585.1 A 4 of the Code of Virginia*, Case No. PUR-2017-00164, Doc. Con. Cen. No. 180310010, Final Order (Feb. 28, 2018); *Application of Appalachian Power Company, For approval of a rate adjustment clause pursuant to § 56-585.1 A 4 of the Code of Virginia*, Case No. PUR-2021-00018, Final Order (May 18, 2021); *Application of Appalachian Power Company, For approval of a rate adjustment clause under Va. Code § 56-585.1 A 4*, Case No. PUR-2022-00014, Final Order (July 7, 2022) (“2022 Order”).

³ *Application of Appalachian Power Company, For approval of a rate adjustment clause under Va. Code § 56-585.1 A 4*, Case No. PUR-2023-00061, Final Order (July 24, 2023) (“2023 Order”).

II. Witnesses in Support of the Application

The costs that Appalachian seeks to recover in this Application fall within the definition of costs deemed reasonable and prudent by the T-RAC Statute, as supported by the testimony of the following witnesses:

- **Brian J. Frantz**, Director, Corporate Accounting, American Electric Power Service Corporation ("AEPSC"). Mr. Frantz addresses PJM Interconnection, LLC's ("PJM") billings to American Electric Power and subsequent allocations to Appalachian; the Company's continued use of over/under accounting for the T-RAC; and the T-RAC's cumulative under-recovery balance of \$7.1 million as of March 31, 2024.
- **Michelle M. Howell**, Director of Transmission Settlements and Investments, AEPSC. Ms. Howell presents the forecasts of the Company's monthly Open Access Transmission Tariff ("OATT") expenses for the period April 2024 through September 2025 and annual OATT expenses for the years 2025 through 2028. She also describes the methodologies employed to calculate APCo's total estimated OATT expenses.
- **Chad E. Notestone**, Regulatory Consultant Staff, AEPSC. Mr. Notestone calculates a total revenue requirement of \$380.1 million for the rate year of October 2024 through August 2025 (the "Rate Year") and provides the information necessary to calculate the portion of the revenue requirement associated with the Business Park Program. Mr. Notestone also discusses the jurisdictional allocation factors used to allocate the T-RAC revenue requirement to the Virginia retail jurisdiction and the calculation of the proposed T-RAC rates that are designed to recover the requested revenue requirement. He also sponsors the proposed T-RAC tariff sheets.

III. Requested Revenue Requirement, Rate Impact, and Cost Allocation

In this Application, the Company requests permission to recover a proposed total revenue requirement for the Rate Year of \$380.1 million. As Mr. Notestone sets out, this amount is comprised of the following components:

- a. A forecasted Virginia jurisdictional current-period formula rate (current) revenue requirement of \$369.8 million for the Rate Year. The revenue requirement is based on FERC-approved PJM rates for transmission service that went into effect January 1, 2024.
- b. A cumulative Virginia jurisdictional actual under-recovery formula rate balance, through March 2024 (true-up) of \$7.1 million.

- c. A forecasted Virginia jurisdictional under-recovery amount of \$0.6 million for the period April 2024 – September 2024 (update).
- d. A forecasted Virginia jurisdictional revenue requirement of \$2.6 million associated with the Business Park Program, discussed in more detail below.

The total proposed revenue requirement is a decrease of about \$33.1 million from the annual revenue requirement of approximately \$413.2 million that the Commission approved in the 2023 Order. If approved by the Commission, the Company's proposed T-RAC rates would decrease the monthly bill for a residential customer using 1,000 kWh by \$2.12, which would be a 1.2% decrease from the March 2024 typical bill.

IV. The Business Park Program

Virginia Code § 56-585.1:10 ("Business Park Program Statute") reflects the conclusion of the General Assembly that industrial sites in the Commonwealth are not as attractive to new businesses as those in surrounding states, due in part to a lack of utility infrastructure. The Business Park Program, conducted by the Virginia Economic Development Partnership, allows Appalachian to complete the construction phase of a transmission line and associated substation to provide the electric infrastructure to a business park, before an industrial customer is located there, to make the site more attractive to potential customers, thus advancing the Commonwealth's economic development efforts.

The Business Park Program Statute also allows Appalachian to recover through the T-RAC costs incurred after January 1, 2019 "to construct, operate, and maintain transmission lines and associated substations installed in order to provide service to a business park."

V. Compliance with the Rate Case Rules

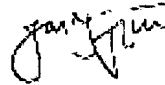
As required by the Commission's Rate Case Rules, the Company provides Schedule 46 and the required cost of capital schedules with this Application. Pursuant to Rule 20 VAC 5-

204-10 J, the Company will serve copies of the Application, testimony, and Schedule 46 on the Division of Consumer Counsel of the Office of the Attorney General.

WHEREFORE, Appalachian Power Company respectfully requests that the Commission approve the Company's decreased revenue requirement and grant any such other relief that the Commission determines to be necessary.

Respectfully submitted,

APPALACHIAN POWER COMPANY



By: _____
Counsel

June 3, 2024

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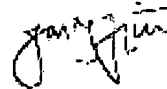
CERTIFICATE OF SERVICE

I hereby certify that a true copy of the foregoing Application of Appalachian

Power Company was served by electronic mail on this 3rd day of June 2024 on:

William H. Chambliss, Esq.
Office of General Counsel
State Corporation Commission
Tyler Building - 10th Floor
1300 East Main Street
Richmond, VA 23219

C. Meade Browder, Jr., Esq.
Senior Assistant Attorney General
Division of Consumer Counsel
Office of the Attorney General
202 N. 9th Street
Richmond, VA 23219



APCo Exhibit No. _____
Witness: BJF

240610029

**DIRECT TESTIMONY OF
BRIAN J. FRANTZ
FOR APPALACHIAN POWER COMPANY
IN VIRGINIA S.C.C. CASE NO. PUR-2024-00079**

APCo Exhibit No. _____
Witness: BJB

SUMMARY OF DIRECT TESTIMONY OF BRIAN J. FRANTZ

My direct testimony addresses:

- PJM billings to AEP and subsequent allocations to APCo
- APCo's continued use of over/under accounting for the T-RAC
- The T-RAC's cumulative under-recovery balance of \$7.1 million as of March 31, 2024

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**DIRECT TESTIMONY OF
BRIAN J. FRANTZ
FOR APPALACHIAN POWER COMPANY
IN VIRGINIA S.C.C. CASE NO. PUR-2024-00079**

1 **Q. PLEASE STATE YOUR NAME, POSITION AND BUSINESS ADDRESS.**

2 A. My name is Brian J. Frantz. My business address is 1 Riverside Plaza, Columbus, Ohio
3 43215. I am currently Director, Corporate Accounting, for American Electric Power
4 Service Corporation ("AEPSC"), a wholly-owned subsidiary of American Electric Power
5 Company, Inc. ("AEP"). AEP is the parent company of Appalachian Power Company
6 ("APCo" or "Company").

7 **Q. PLEASE SUMMARIZE YOUR EDUCATIONAL AND EMPLOYMENT**
8 **BACKGROUND.**

9 A. I attended Ohio University and received a Bachelor of Business Administration degree,
10 with an emphasis in Accounting in 1999. I have been employed by AEPSC since March
11 2005, when I was hired as a Staff Accountant in the Wholesale Commodity Accounting
12 group. In May 2010, I was promoted to Supervisor of the Fuel and Contract Accounting
13 group. In August 2013, I was promoted to Administrator of Regulated Accounting. In
14 December 2013, I was promoted to Manager Regulated Accounting where I was
15 responsible for the books and records for four operating companies (Indiana Michigan
16 Power Company, Kentucky Power Company, Kingsport Power Company and AEP
17 Generating Company). In November 2014, I moved to become Manager Regulated
18 Accounting, where I was responsible for AEPSC, until being promoted to my current
19 position of Director in December 2018. Prior to my employment with AEP, I spent

1 approximately one year in a financial reporting role and five years in various roles in
2 public accounting.

3 **Q. WHAT ARE YOUR RESPONSIBILITIES IN THIS POSITION?**

4 A. I am responsible for AEP's transmission accounting operations and associated internal
5 controls, as well as its related external financial report filings with the FERC and the state
6 commissions.

7 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY REGULATORY**
8 **COMMISSIONS?**

9 A. Yes. I submitted written testimony for this Commission in Case No. PUR-2023-00061,
10 the Company's most recent Transmission Rate Adjustment Clause ("T-RAC") filing. I
11 also filed testimony on behalf of the Company in APCo's 2022 and 2021 T-RAC filings.
12 In addition, I testified before the Oklahoma Corporation Commission ("OCC") in Cause
13 No. PUD 201500208 and I submitted written testimony with the OCC in other causes,
14 and in several dockets with the Public Utility Commission of Texas.

15 **I. PURPOSE**

16 **Q. PLEASE SUMMARIZE THE PURPOSE OF YOUR TESTIMONY IN THIS**
17 **PROCEEDING.**

18 A. In my testimony, I describe the PJM billing to AEP and subsequent allocation to APCo of
19 net costs for transmission services which support the calculations for the T-RAC and its
20 cumulative under-recovery balance of \$7.1 million, as of March 31, 2024. I also describe
21 the continued use of over/under accounting for the T-RAC.

22 **Q. ARE YOU SPONSORING ANY RATE SCHEDULES IN THIS PROCEEDING?**

23 A. Yes, I am sponsoring the following rate schedule:

- Schedule 46, Section a(1) – Over/Under Recovery (Actual costs)

II. ACCOUNTING FOR PJM CHARGES AND CREDIT

Q. WOULD YOU PLEASE DESCRIBE THE INVOICES THAT AEP RECEIVES FROM PJM?

A. PJM invoices provide AEP with Billing Line items which detail the charges and credits in accordance with the PJM Open Access Transmission Tariff ("PJM OATT"). As described by Company witness Howell, PJM applies the tariff rates to the various generation, load, and transmission billing determinants specified in the PJM OATT to determine an amount for each billing line item.

Q. PLEASE DESCRIBE THE TIMING OF THE PJM INVOICES AND EFFECT ON APCO'S GENERAL LEDGER.

A. Since the actual month-end PJM invoices are received after APCo's month-end settlement and closing have been completed, an estimate of PJM OATT charges and credits for the current month is recorded based on preliminary information received from PJM. The following month, the estimate is reversed and the actual invoice is recorded.

Q. DOES AEPSC HAVE A PROCESS FOR REVIEWING PJM BILLS AND RESOLVING ANY BILLING DISCREPANCIES?

A. Yes. AEPSC reviews the PJM bills and verifies the calculations using data supplied by PJM that relates to the charges and credits identified on the PJM invoice. In the event of a discrepancy, AEPSC will contact PJM's market settlement operations group. PJM will make any appropriate adjustments to the bill in the current or subsequent month, depending on the timing of when the bill is issued.

1 **Q. HOW ARE THE CHARGES AND CREDITS ALLOCATED TO APCO?**

2 A. Once AEPSC receives the bills from PJM, it performs a monthly settlement process
3 which allocates each PJM charge and credit to the AEP East Operating Companies.
4 Within an operating company, charges are allocated to the load serving entity and/or Off-
5 System Sales. For the purposes of the T-RAC, the charges and credits other than direct
6 bill items are allocated to APCo in accordance with Appendix 1 of the Transmission
7 Agreement approved by the FERC on October 29, 2010 (Docket ER09-1279-000) as
8 shown in Schedule 46, Section a(1). The Transmission Agreement requires allocation of
9 costs using two primary allocators: 12 Coincident Peaks ("CPs"), and Megawatt Hours
10 ("MWhs"). PJM Administrative Fees and certain other items are directly billed by PJM
11 to each operating company.

12 **Q. HOW ARE THE JURISDICTIONAL RETAIL CHARGES AND CREDITS**
13 **DETERMINED?**

14 A. Monthly Virginia retail jurisdictional allocation factors are applied to the charges and
15 credits allocated to APCo to determine the jurisdictional retail amounts to be recovered
16 through the T-RAC. The monthly Virginia retail jurisdictional allocation factors are
17 determined using the same methodology as was used in the Company's most recent
18 Triennial Review and T-RAC proceedings.

19 **Q. WILL APCO CONTINUE TO USE OVER/UNDER ACCOUNTING FOR THE**
20 **EXISTING T-RAC?**

21 A. Yes. To ensure customers pay no more or less than actual costs, APCo will continue to
22 use over/under accounting as approved for the T-RAC.

Q. PLEASE DESCRIBE THE CURRENT ACCOUNTING THAT APCO USES IN THE T-RAC TO RECORD OVER OR UNDER RECOVERIES.

A. APCo records any over/under recovery, on a monthly basis, as a debit/credit to Account 566, Miscellaneous Transmission Expense and a corresponding credit/debit to either Account 254, Other Regulatory Liabilities or Account 182.3, Other Regulatory Assets based on the cumulative balance of the T-RAC Regulatory Asset or Liability.

Q. DESCRIBE THE ACCOUNTING FOR TRANSMISSION FACILITIES SERVING BUSINESS PARKS.

A. APCo is recovering current costs, including operation and maintenance, property taxes, depreciation and carrying charges for the Berry Hill, Commonwealth Crossing, and Wildwood Industrial Parks through the T-RAC.

Q. WHAT IS THE BALANCE OF THE T-RAC OVER OR UNDER RECOVERY?

A. As of March 31, 2024, APCo has an under-recovery of \$7,125,989 in the T-RAC, as shown in Schedule 46, Section a(1).

Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A. Yes.

APCo Exhibit No. _____
Witness: MMH

**DIRECT TESTIMONY OF
MICHELLE M. HOWELL
FOR APPALACHIAN POWER COMPANY
IN VIRGINIA S.C.C. CASE NO. PUR-2024-00079**

SUMMARY OF DIRECT TESTIMONY OF MICHELLE M. HOWELL

In my testimony, I

- Present the forecasts of the Company's monthly Open Access Transmission Tariff ("OATT") expenses for the period April 2024 through September 2025 and annual OATT expenses for the years 2025 through 2028.
- Describe the methodologies employed to calculate APCo's total estimated OATT expenses.

**DIRECT TESTIMONY OF
MICHELLE M. HOWELL
FOR APPALACHIAN POWER COMPANY
IN VIRGINIA S.C.C. CASE NO. PUR-2024-00079**

1 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND POSITION.**

2 A. My name is Michelle M. Howell. I am Director of Transmission Settlements and
3 Investments for American Electric Power Company, and my business address is 1 Riverside
4 Plaza, Columbus, Ohio 43215.

5 **Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND BUSINESS**
6 **EXPERIENCE.**

7 A. In 2001, I graduated from Ohio Northern University with a Bachelor of Science degree in
8 Business Administration, concentration in Accounting. I earned a Master of Business
9 Administration degree from Ohio University in 2010. In 2007, I completed the New
10 Mexico State Rate Fundamentals Course.
11 In 2003, I joined AEPSC as an Accountant in the Utility, General, and Regulated Accounting
12 department. I accepted a position in the Regulated Pricing and Analysis department as a
13 Regulatory Analyst II in 2007. In 2012, I was promoted to Regulatory Consultant. I
14 accepted a position as a Financial Analyst Principal in the Transmission Settlements and
15 Investments department in 2013 where I focused on settlements and forecasting in the PJM
16 RTO. In 2016, I became manager of Transmission Business Policy and Strategy. My
17 primary responsibilities were Transmission labor budgeting and variance reporting, O&M
18 budgeting and Transmission financial reporting. I accepted my current position as Director
19 – Transmission Settlements and Investments in January 2021.

1 Prior to joining AEPSC, I was employed as a consultant by PricewaterhouseCoopers, L.L.P.
2 and IBM Corp. I provided consulting services to the Defense Finance Accounting Service –
3 Columbus Center in Columbus, Ohio and the Drug Enforcement Administration in
4 Arlington, Virginia.

5 I am responsible for overseeing the forecasting of transmission revenue and
6 expenses, Regional Transmission Organization (“RTO”) transmission settlements
7 reconciliations, financial governance of wholesale interconnection contracts, other third
8 party transmission settlement activities and Transmission labor invoice processing, vendor
9 support and compliance. I also review actual Transmission revenues and expenses as
10 compared to the forecast.

11 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY AS A WITNESS BEFORE**
12 **ANY REGULATORY COMMISSION?**

13 A. Yes. I submitted testimony on behalf of Appalachian Power Company in Virginia S.C.C.
14 Case Nos. PUR-2021-00018, Case No. PUR-2022-00014, and Case No. PUR-2023-00061
15 in support of APCo total OATT expenses.

16 I also submitted testimony on behalf of Indiana Michigan Power Company before
17 the Michigan Public Service Commission in support of revenue allocation and rate design
18 and in support of I&M OATT expenses. I submitted testimony to the Indiana Utility
19 Regulatory Commission in support of rider rate design.

20 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

21 A. The purpose of my testimony is to:

- 22 • Present the forecasts of the Company’s monthly OATT expenses for the period April
23 2024 through September 2025 and annual OATT expenses for the years 2025 through
24 2028.

- Describe the methodologies employed to calculate APCo's total estimated OATT expenses.

Q. ARE YOU SPONSORING ANY SCHEDULES IN THIS PROCEEDING?

A. I am sponsoring the following schedules:

- Schedule 46, Section 1(a), Statement 3 – Calculation of PJM Charges
- Schedule 46, Section 1(a), Statement 4 – PJM RTEP
- Schedule 46, Section 1(a), Statement 5 – PJM Admin Fees

I am co-sponsoring the following schedules:

- Schedule 46, Section 1(a), Statement 2 – Cost of Service
- Schedule 46, Section 1(a), Statement 6 – Updated Cost Calculation
- Schedule 46, Section 1(a), Statement 7 - Forecasted 2025 – 2028

Q. PLEASE DESCRIBE THE OATT CHARGES AND CREDITS INCLUDED IN THE 2024 TRANSMISSION RATE ADJUSTMENT CLAUSE.

A. Charges and credits which constitute APCo's OATT expenses are:

1. Network Integration Transmission Service (NITS);
2. Firm and Non-Firm Point-to-Point (PTP) Transmission Credits;
3. Schedule 1A Ancillary Service Charges;
4. PJM Transmission Enhancement Charges; and
5. PJM Administration Charges

Q. PLEASE PROVIDE A HIGH LEVEL EXPLANATION OF THE IMPACT OF THE CANCELLATION OF THE SALE OF KENTUCKY POWER COMPANY AND AEP KENTUCKY TRANSMISSION COMPANY, INC. ON APCO'S OATT EXPENSES.

A. The cancellation of the sale of Kentucky Power Company ("KPCo") and AEP Kentucky Transmission Company, Inc. ("KPTCo") has no impact on APCo's total OATT expense.

1 The expense related to KPCo and KPTCo remained an affiliate expense and was incurred by
2 APCo as part of the AEP transmission zone.

3 **Q. PLEASE EXPLAIN THE IMPACT OF FEDERAL ENERGY REGULATORY**
4 **COMMISSION (“FERC”) ORDER ER17-406-000 and EL23-51-000 ON APCO’S**
5 **OATT EXPENSES.**

6 A. AEP Registrants transitioned to stand-alone treatment of Net Operating Loss Carry forwards
7 (“NOLCs”) in its PJM transmission formula rates beginning with the 2022 projected
8 transmission revenue requirements and 2021 true-up to actual transmission revenue
9 requirements, and provided notice of this change in informational filings made with the
10 FERC. In January 2024, the FERC issued two orders granting formal challenges by certain
11 unaffiliated customers related to stand-alone treatment of NOLCs in the 2021 Transmission
12 Formula Rates of the AEP transmission owning subsidiaries within PJM. The FERC
13 directed the AEP transmission owning subsidiaries within PJM to provide refunds with
14 interest on all amounts collected for the 2021 rate year, and for such refunds to be reflected
15 in the annual update for the next rate year. AEP Registrants in PJM will include the 2021
16 rate year refund in its 2025 Projected Transmission Revenue Requirement, which will
17 reduce the expenses paid by Load Serving Entities (“LSE”) within the AEP Zone of PJM.
18 This benefit of lower LSE expense will flow through the VA T-RAC during 2025 and is
19 reflected in the forecast of estimated expenses filed in this case. AEP filed with FERC in
20 April 2024 to appeal the ruling due to the IRS issuing a Private Letter Ruling regarding the
21 treatment of stand-alone NOLCs in ratemaking the same month.

22 **Q. PLEASE PROVIDE A GENERAL DESCRIPTION OF THE OATT CHARGES AND**
23 **CREDITS AND THE METHODOLOGIES UTILIZED IN THE DEVELOPMENT OF**

**APCO'S FORECASTED OATT EXPENSES FOR THE PERIOD APRIL 1, 2024
THROUGH SEPTEMBER 30, 2025.**

A. A discussion of the specific methodologies and assumptions used in the calculation of each of these items by category follows.

NETWORK INTEGRATED TRANSMISSION SERVICE

(Schedule 46, Section 1(a), Statement 3)

Q. WHAT ARE NETWORK INTEGRATED TRANSMISSION SERVICE CHARGES?

A. Network Integrated Transmission Service ("NITS") are wholesale transmission expenses allocated to APCo for the Company's use of the AEP transmission system in PJM. Additionally, APCo incurs additional nonaffiliated charges related to transmission facilities of AEP zonal customer that have been integrated into the operations of the Transmission Provider- PJM. PJM allocates a portion of the total costs required to provide reliable network transmission service to each LSE in the AEP transmission zone. As an LSE, AEP is allocated a portion of the NITS costs, which it further allocates to its operating companies. The AEP East Companies' charges are computed by applying the zonal NITS rate to the total AEP LSE Network Service Peak Load ("NSPL") of the prior calendar year, coincident with the prior calendar year NSPL of the entire AEP zone. The NITS rates are calculated using the formula rates specified in Attachments H-14, H-20 and H-32A of the PJM OATT. The NITS rates are updated annually effective January 1. Pursuant to Appendix 1 of the Transmission Agreement, approved by the FERC on October 29, 2010, (FERC Docket No. ER09-1279-000), the NITS charges incurred by the AEP East Companies to serve load in the AEP Zone of PJM are further allocated to APCo based on its contribution to the AEP

1 LSE average 12 month coincident peak ("12CP") transmission load through October 31 of
2 the prior year.

3 **Q. HOW WAS THE PROJECTION OF NITS EXPENSES DEVELOPED?**

4 A. To forecast the NITS expenses beyond the effective period of the FERC approved billing
5 determinants, transmission revenue requirement projections are forecasted. Load forecasts
6 received from AEP's Economic Forecasting group are used to estimate future peak loads.
7 The projected NITS rates are held consistent through the calendar year. The NITS rate is
8 applied to the prior year collective NSPL of the AEP East Operating Companies to project
9 NITS charges. The NITS charges are then allocated to APCo based on its projected 12CP
10 load share.

11 **FIRM AND NON-FIRM POINT-TO-POINT TRANSMISSION CREDITS**

12 (Schedule 46, Section 1(a), Statement 3)

13 **Q. WHAT ARE FIRM AND NON-FIRM POINT-TO-POINT (PTP) TRANSMISSION**
14 **CREDITS?**

15 A. Each month, PJM allocates Firm PTP transmission service revenues to the various PJM
16 Transmission Zones, proportionate to the revenue requirements for NITS in each zone.
17 Non-Firm PTP is allocated proportionately to the monthly demand charges. PJM further
18 allocates the AEP Zone share of PJM PTP revenues directly to AEP and other NITS
19 customers in the AEP Zone. APCo is then allocated a portion of AEP's PTP credits based on
20 its 12CP load share.

1 **Q. HOW DID YOU FORECAST FIRM AND NON-FIRM PTP TRANSMISSION**
2 **CREDITS?**

3 A. PTP transmission credits for 2024 are forecasted using the latest available actual credits
4 appearing on the PJM Settlement statement based on recent transmission service
5 reservations. These same monthly numbers are also held constant as a reasonable forecast
6 for years beyond 2024 because demand for PTP transmission reservations is less reasonably
7 predictable over the long term.

8 **SCHEDULE 1A ANCILLARY SERVICE CHARGES**

9 (Schedule 46, Section 1(a), Statement 3)

10 **Q. WHAT ARE SCHEDULE 1A ANCILLARY SERVICE CHARGES?**

11 A. These are charges AEP paid to PJM for transmission scheduling and dispatch services
12 provided by AEP East Operating Companies and AEP East Transmission Companies. PJM
13 OATT Schedule 1A includes a rate, specified in \$/MWh, for Scheduling, System Control
14 and Dispatch Service provided by PJM Transmission Owners in each PJM Zone. The rate
15 for that service is updated annually with the FERC formula rate filing.

16 **Q. HOW WAS THE PROJECTION OF SCHEDULE 1A ANCILLARY SERVICE**
17 **CHARGES DEVELOPED?**

18 A. A forecasted Schedule 1A rate was developed based on forecasted scheduling and
19 dispatching services costs for AEP East Operating Companies and AEP East Transmission
20 Companies. To forecast APCo's Schedule 1A charge for October 1, 2024 through
21 September 30, 2025, the forecasted Schedule 1A rate for AEP East Operating Companies
22 plus the forecasted Schedule 1A rate for AEP East Transmission Companies is multiplied by
23 the total AEP LSE energy ("MWh") forecasted for each calendar year to derive the total

1 AEP Schedule 1A charge. APCo's share of the total AEP Schedule 1A charge is calculated
2 by applying the forecasted Schedule 1A rate to APCo's share of the forecasted load.

3 **PJM TRANSMISSION ENHANCEMENT CHARGES**

4 **(Schedule 46, Section 1(a), Statement 4)**

5 **Q. WHAT ARE PJM TRANSMISSION ENHANCEMENT CHARGES?**

6 A. The Transmission Enhancement expenses are paid by AEP to PJM to help fund investment
7 in extra-high voltage transmission projects that are determined to be needed to maintain
8 reliability throughout the entire PJM footprint (regional projects). The costs resulting from
9 Regional Projects are allocated to the PJM Zones that are deemed to benefit from each
10 project. The cost responsibility allocated to each zone for all Regional Transmission
11 Expansion Plan ("RTEP") projects is charged to NITS customers based on their respective
12 NSPL shares. AEP then allocates a portion of its assigned transmission enhancement costs
13 of the AEP LSE to APCo based on its 12CP load share.

14 **Q. HOW WAS THE PROJECTION OF PJM TRANSMISSION ENHANCEMENT**
15 **CHARGES DEVELOPED?**

16 A. The latest transmission project information published by PJM is used to estimate
17 transmission revenue requirements for regional projects with costs approved to be allocated
18 to the AEP Zone. The latest FERC approved PJM regional cost allocation policy, at the time
19 of the forecast, is used to estimate the portion of each project that can be expected to be
20 allocated to the AEP Zone for the period 2024 - 2028. Of the total forecasted AEP LSE
21 Transmission Enhancement charge, APCo is allocated a percentage based on its forecasted
22 share of the average 12CP. The forecast also reflects the cost allocation settlement approved
23 by FERC (Docket No. EL05-121-009) on May 31, 2018.

PJM ADMINISTRATIVE CHARGES

(Schedule 46, Section 1(a), Statement 5)

Q. WHAT ARE PJM ADMINISTRATIVE CHARGES?

A. PJM charges each market participant on a monthly basis a number of fees to recover its operating and administration costs. PJM also charges fees to transmission customers and other market participants to fund the operation of the FERC and certain other organizations that are involved in management of transmission reliability and regulation. These fees are defined in PJM OATT Schedules 9 and 10 and are approved by the FERC. Administrative costs incurred by the PJM RTO are passed on to member LSEs and generation owners through an energy based rate (\$/MWh). PJM directly assigns the Administrative charges to the operating companies based on usage.

Q. HOW WAS THE PROJECTION OF PJM ADMINISTRATIVE CHARGES DEVELOPED?

A. The 2024 projected administrative charges are based on the AEP forecasted 2024 - 2028 load MWhs for APCO. The applicable administrative charge rates for 2024 are the PJM approved 2024 Schedule 9 CAPS and OPSI rates and the Schedule 10 NERC and RFC rates. The 2025 - 2028 rates have an estimated growth rate of 2.5% applied.

Default Fees

Q. WHAT ARE THE DEFAULT ALLOCATION ASSESSMENTS?

A. Default allocation assessments result in charges that occur when PJM has uncollectible accounts; these amounts are allocated under Section 15.2 of the PJM operating agreement. When PJM allocates such costs to AEP, recovery of APCo's share of those costs allocated to the Virginia jurisdiction through the T-RAC is appropriate. However, because these charges

1 are infrequent and unpredictable, the Company did not include such costs related to default
2 allocation charges within the forecast of the Cost of Service.

3 **Q. HOW WERE THESE OATT COSTS INCLUDED IN APCO'S PROJECTED COST**
4 **OF SERVICE?**

5 A. The OATT costs are incorporated in the development of the Cost of Service as described by
6 witness Notestone.

7 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

8 A. Yes.

APCo Exhibit No. _____
Witness: CEN

**DIRECT TESTIMONY OF
CHAD E. NOTESTONE
FOR APPALACHIAN POWER COMPANY
IN VIRGINIA S.C.C. CASE NO. PUR-2024-00079**

SUMMARY OF DIRECT TESTIMONY OF CHAD E. NOTESTONE

In my testimony, I

- Calculate a revenue requirement of \$380.1 million for the rate year of October 2024 through September 2025 ("Rate Year") comprised of the following four components:
 - a. A forecast Virginia jurisdictional current-period (Current) revenue requirement of \$369.8 million for the Rate Year. The revenue requirement is based on FERC-approved PJM rates for transmission service that went into effect January 1, 2024.
 - b. A cumulative Virginia jurisdictional actual under-recovery balance, through March 2024 (the True-up) of \$7.1 million.
 - c. A forecast Virginia jurisdictional under-recovery amount of \$0.6 million for the period April 2024 – September 2024 (Update).
 - d. A forecast Virginia jurisdictional revenue requirement of \$2.6 million associated with programs for facilities serving business parks.
- Discuss and provide the information necessary to calculate the revenue requirement associated with the Business Park Program.
- Discuss the jurisdictional allocation factors used to allocate the T-RAC revenue requirement to the Virginia retail jurisdiction and the calculation of the proposed T-RAC rates that have been designed to recover the revenue requirement being requested in this filing.
- Sponsor the proposed T-RAC tariff sheets.

**DIRECT TESTIMONY OF
CHAD E. NOTESTONE
FOR APPALACHIAN POWER COMPANY
IN VIRGINIA S.C.C. CASE NO. PUR-2023-00061**

1 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND POSITION.**

2 A. My name is Chad E. Notestone. I am employed AEPSC as a Regulatory Consultant
3 Staff. My business address is 1 Riverside Plaza, Columbus, Ohio 43215. AEPSC is a
4 wholly-owned subsidiary of AEP, the parent company of APCo.

5 **Q. PLEASE DESCRIBE YOUR CURRENT RESPONSIBILITIES.**

6 A. My responsibilities include assisting APCo and other AEP electric utility operating
7 companies in the preparation of filings before the Commission and other commissions
8 under whose jurisdiction these companies provide electric service.

9 **Q. PLEASE SUMMARIZE YOUR PROFESSIONAL EXPERIENCE AND**
10 **EDUCATIONAL BACKGROUND.**

11 A. I received a Bachelor of Business Administration degree in Finance in 2006 and a Master
12 of Business Administration in 2013, both from Ohio University. I started my career in
13 the utility industry in 2007 with NiSource Corporate Services in the regulatory function
14 as a Regulatory Analyst supporting rate filings and other regulatory matters before the
15 state regulatory commissions. I was promoted to Senior Regulatory Analyst in 2009 and
16 then to Lead Regulatory Analyst in 2013. I became a Manager in 2015 in NiSource's
17 Regulatory Services area where I was primarily responsible for performing class revenue
18 and cost studies for rate cases. I joined AEPSC in 2021 as a Regulatory Consultant Staff,
19 which is the position I currently hold.

1 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY AS A WITNESS**
2 **BEFORE ANY REGULATORY COMMISSION?**

3 A. Yes. I have sponsored testimony before the Virginia State Corporation Commission on
4 behalf of NiSource's subsidiary company Columbia Gas of Virginia, Inc. I have also
5 provided testimony on behalf of other NiSource subsidiaries before the Kentucky Public
6 Service Commission, the Maryland Public Service Commission, the Pennsylvania Public
7 Utility Commission and the Massachusetts Department of Public Utilities.

8 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

9 A. The purpose of my testimony is to:

- 10 • Calculate a total revenue requirement of \$380.1 million for the rate year of October
11 2024 through September 2025 (Rate Year).
- 12 • Discuss and provide the information necessary to calculate the portion of the revenue
13 requirement associated with the program for facilities serving business parks.
- 14 • Discuss the jurisdictional allocation factors used to allocate the T-RAC revenue
15 requirement to the Virginia retail jurisdiction and the calculation of the proposed T-
16 RAC rates that have been designed to recover the revenue requirement being
17 requested in this filing.
- 18 • Sponsor the proposed T-RAC tariff sheets.

19 **Q. ARE YOU SPONSORING ANY EXHIBITS IN THIS PROCEEDING?**

- 20 • APCo Exhibit No. ____ (CEN) Schedule 1 T-RAC Riders effective October 1, 2024
- 21 • APCo Exhibit No. ____ (CEN) Schedule 2 Typical Bill Comparison

22 **Q. ARE YOU SPONSORING ANY RATE CASE SCHEDULES IN THIS**
23 **PROCEEDING?**

- 24 • Schedule 3 – Capital Structure and Cost of Capital Statement – Per Books and
25 Average
- 26 • Schedule 4 – Long-Term Debt, Preferred and Preference Stock, Job Development
27 Credits, and Any Other Component of Ratemaking Capital

- Schedule 5 – Short-Term Debt, Revolving Credit Agreements, and Similar Short-Term Financing Arrangements
- Schedule 8 – Proposed Cost of Capital Statement
- Schedule 46 Section 1, Statement 1 - Cost of Service Summary
- Schedule 46 Section 3 - Annual revenue requirement over a five year period by year and by class
- Schedule 46 Section 4 - Methodology for allocating the revenue requirement among rate classes and the design of class rates

I am co-sponsoring the following schedules:

- Schedule 46, Section 1, Statement 2 – Cost of Service
- Schedule 46, Section 1, Statement 6 – Updated Cost Calculation
- Schedule 46, Section 1, Statement 7 – Projected T-RAC Costs

Q. WHAT IS THE BACKGROUND OF THE COMPANY'S RECENT TRANSMISSION RECOVERY?

A. The Company received approval to establish a transmission rate adjustment clause pursuant to the T-RAC Statute in Case No. PUE-2009-00031. In the 2023 T-RAC Proceeding, the Commission authorized the Company to recover \$413.2 million annually.

Q. ARE THERE ANY CHANGES TO THE METHODOLOGY OR THE INTRODUCTION OF NEW COST COMPONENTS IN THIS CASE COMPARED TO THE COMPANY'S LAST T-RAC FILING?

A. No.

Q. SINCE THE COMPANY'S LAST FILING, WHAT HAS BEEN THE COMPANY'S ACTUAL RECOVERY AND COSTS?

A. As of March 2024, the Company's total under-recovery balance is \$7.1 million. The Company's under-recovery balance is estimated to increase during the period April 2024 through September 2024 by \$0.6 million resulting in a balance of \$7.7 million at the end

1 of September 2024. Lastly, the Company's proposed rates in this proceeding are
2 designed to recover the expected rate year costs of \$369.8 million based upon the new
3 FERC Transmission rates that became effective in January 2024.

4 **Q. WHAT IS THE TOTAL REVENUE REQUIREMENT IN THIS PROCEEDING**
5 **AND HOW DOES IT COMPARE TO THE COMPANY'S PREVIOUS REVENUE**
6 **REQUIREMENT?**

7 A. The Company is requesting a total revenue requirement of \$380.1 million, which is
8 comprised of the total rate revenue requirement and the business park distribution
9 revenue requirement. This is a \$33.1 million decrease over the \$413.2 million previously
10 authorized revenue requirement in the 2023 T-RAC Proceeding.

11 **I. REVENUE REQUIREMENT MECHANISM**

12 **Q. WHAT ARE THE ELEMENTS OF RECOVERY TO BE CONSIDERED BY THE**
13 **COMMISSION?**

14 A. As has been established in the prior cases for both the Company and Virginia Electric and
15 Power Company, and as detailed in the Company's Application, the T-RAC Statute
16 provides dollar for dollar recovery of T-RAC costs. As the T-RAC protects both the
17 customer and the Company from over-payment or under-recovery, the Company is
18 including two pre-rate year components in the T-RAC revenue requirement computation:
19 (1) the true-up between actual expense and actual revenue collections as of March 2024
20 as recorded per the Company's books (True-Up Period of Subsection A-4 Costs); and (2)
21 a comparison between the expected FERC costs incurred and expected transmission
22 revenue collections to be received for the period April 1, 2024 until the expected T-RAC
23 implementation (Update Period-April 1, 2024 through September, 2024). The Company
24 requests that the Commission approve recovery of the costs related to the two true up

periods described above, in addition to the T-RAC "Rate Year" (Current Period Sub-Section A-4 Costs). This approach is consistent with the regulatory treatment in the Company's most recent T-RAC case.

Q. PLEASE IDENTIFY THE REVENUE REQUIREMENT APPROVED IN THE LAST CASE AND COMPARE THAT TO THE REVENUE REQUIREMENT IN SCHEDULE 46 SECTION 1 STATEMENT 1.

	PUR-2023-00061	Revenue Requirement Schedule 46
(A) True-Up Component	\$18.5 million	\$7.1 million
(B) Update Component	\$13.7 million	\$0.6 million
(C) Current Rate Year Cost Component	\$378.9 million	\$369.8 million
(D) Business Park Program	\$2.2 million	\$2.6 million
Total Revenue Requirement	\$413.2 million	\$380.1 million

Q. WHAT IS THE TRUE-UP PERIOD COMPONENT?

A. The True-Up Period Component is the March 2024 cumulative under recovery position of \$7.1 million provided to me by Company witness Frantz. Mr. Frantz provides the detail to support the determination of this cumulative under recovery position.

Q. HOW DID YOU DETERMINE THE CURRENT PERIOD COMPONENT?

A. The Current Period Component includes three categories of costs:

- 1) NITS costs, PJM Schedule 1A costs and Point to Point Transmission Service Credits (Schedule 46, Section 1, Statement 3, page 1),
- 2) PJM Schedule 12 Transmission Enhancement Charges, commonly referred to as RTEP Costs (Schedule 46, Section 1, Statement 4 pages 1 -13), and
- 3) PJM Regional Transmission Organization Administration Costs (Schedule 46, Section 1, Statement 5, page 1).

I received the projection of these costs from Company witness Howell.

1 **Q. FOR WHICH PJM-RELATED ITEMS WERE THE TOTAL COMPANY COSTS**
2 **ALLOCATED TO THE VIRGINIA JURISDICTION ON DEMAND?**

3 A. NITS Costs were allocated to the Virginia jurisdiction on demand as those costs are billed
4 to AEP and APCo on a demand basis. Point-to-Point Transmission Service Credits are
5 revenue offsets to NITS Costs and were allocated to the jurisdiction on a demand basis as
6 well. PJM Transmission Enhancement Charges are associated with capital construction
7 projects and are therefore also allocated to the jurisdiction on a demand basis. PJM
8 Administrative Charges were allocated on a demand basis for the Rate Year as a
9 reasonable means to reflect cost causation. The Company's March 2024 12-month
10 demand study was used to perform these allocations to the Virginia jurisdiction. The
11 allocation of these costs to the Virginia jurisdiction can be found on Schedule 46, Section
12 1, Statement 2, page 1.

13 **Q. FOR WHICH PJM-RELATED ITEMS WERE THE TOTAL COMPANY COSTS**
14 **ALLOCATED TO THE VIRGINIA JURISDICTION ON ENERGY?**

15 A. The PJM Schedule 1A Charges were allocated on an energy basis because those costs are
16 billed to AEP and APCo on an energy basis.

17 **Q. WHAT IS THE VIRGINIA JURISDICTIONAL AMOUNT OF PJM-RELATED**
18 **"CURRENT" PERIOD TRANSMISSION COSTS INCLUDED IN THIS FILING?**

19 A. The Virginia jurisdictional transmission cost is approximately \$369.8 million and is
20 shown on Schedule 46, Section 1, Statement 2, page 1.

21 **Q. HOW DID YOU DETERMINE THE UPDATE PERIOD COMPONENT**
22 **EXPENSES FOR THE T-RAC?**

23 A. I used the same methodology described above to forecast all T-RAC charges for the
24 Update Period as I did for the Current Period. Both the development of Company

1 transmission charges and allocation of transmission charges to the Virginia jurisdiction
2 employed the same methodology as used for the development of Current transmission
3 revenue requirement. The calculation of the Company's Virginia jurisdictional T-RAC
4 Expenses on a monthly basis can be found on Schedule 46, Section 1, Statement 6 page
5 1-Line 23 (A).

6 **Q. HOW DID YOU DETERMINE THE COMPANY'S VIRGINIA T-RAC RIDER**
7 **REVENUE RECOVERY FOR THE UPDATE PERIOD?**

8 A. Monthly Virginia retail demand and energy billing determinants by rate schedule from
9 the 2024 Biennial Proceeding were multiplied by the transmission rates for each rate
10 schedule from the T-RAC Rider currently in effect. The summation of these rate
11 schedule revenues, adjusted to exclude Open Access Distribution ("O.A.D.") customers
12 who do not pay T-RAC rider rates¹, on a monthly basis can be found in Schedule 46,
13 Section 1, Statement 6 page 1-Line 24 (A).

14 **Q. WHAT IS THE UPDATE PERIOD REVENUE REQUIREMENT THAT IS**
15 **CALCULATED AS A RESULT OF DEVELOPING BOTH VIRGINIA**
16 **JURISDICTIONAL TRANSMISSION COSTS AND REVENUES FOR THE**
17 **PERIOD APRIL 2024 THROUGH SEPTEMBER 2024?**

18 A. The difference between Schedule 46, Section 1, Statement 6 page 1-Line 23 (A) and
19 Schedule 46, Section 1, Statement 6 page 1-Line 24 (A); produce an under-recovery for
20 the Company of \$0.6 million. The Company is requesting to include this "Update
21 Period" amount in the Company Total Section A-4 Cost of Service which can be found
22 on Schedule 46, Section 1, Statement 1, page 1-Line 12.

¹ Consistent with the Commission's Final Order in Case No. PUR-2023-00061.

II. BUSINESS PARK PROGRAM

Q. PLEASE DESCRIBE HOW YOU DEVELOPED THE BUSINESS PARK PROGRAM FORECAST COMPONENT.

A. The forecast component for the Business Park Program is the revenue requirement necessary for recovery of projected depreciation and financing costs based on a thirteen month average rate base through September 30, 2025. The revenue requirement also includes amortization of deferred depreciation and financing costs incurred prior to the rate year. I have forecasted a rate year revenue requirement of \$2.6 million.

Q. HOW WAS THE RATE BASE DEVELOPED IN THE FORECAST COMPONENT?

A. The rate base is comprised of the Virginia jurisdictional 13 month average projected balances for CWIP, projected net plant in service, and accumulated deferred income taxes through September 30, 2025.

Q. HOW DID YOU ALLOCATE THE BUSINESS PARK PROGRAM COSTS TO THE VIRGINIA JURISDICTION?

A. I used, consistent with prior T-RAC filings, the Virginia-only Distribution Plant allocator to allocate the distribution costs to the Virginia jurisdiction.

Q. WHAT RATE OF RETURN IS BEING USED IN CALCULATING THE RATE YEAR REVENUE REQUIREMENT?

A. The Company used an after tax rate of return on rate base of 7.142% based on the year ended December 31, 2023 capital structure. The components of the rate of return, including the 9.5% return on equity that was authorized by the Commission in the Company's 2023 Triennial Review, are contained in Schedule 46, Section 3, Cost of

Capital. Certain revenue components were grossed up in order to adjust for applicable state and federal income taxes.

III. CLASS COST ALLOCATION AND RATE DESIGN

Q. PLEASE DESCRIBE THE ALLOCATION OF THE VIRGINIA JURISDICTIONAL COSTS TO THE CUSTOMER CLASSES.

A. The class cost allocation methodology replicates the method approved by the Commission in Case No. PUE-2013-00111. The allocators and billing determinants used to develop class revenue requirements have been updated using the 2024 Biennial Proceeding billing determinants. Consistent with the Company's other RACs and base rates, the class demand allocation factors were developed using a six coincident peak methodology. The energy allocation factors were developed using annual energy usage by class.

The class allocation factors are shown in Schedule 46, Section 4, Statement 1. For each class, the demand- and energy-related costs are summed to derive the total class revenue requirement.

Q. HOW DO YOU PROPOSE THE VIRGINIA JURISDICTIONAL BUSINESS PARK PROGRAM COSTS BE ALLOCATED TO THE CUSTOMER CLASSES?

A. I propose the costs be allocated consistently with the other T-RAC related costs and utilize demand allocation factors.

Q. WHAT BILLING DETERMINANTS DOES THE COMPANY PROPOSE TO USE FOR RATE DESIGN PURPOSES?

A. As discussed previously in my testimony, the Company proposes to use the billing determinants that were prepared for the 2024 Biennial Proceeding. These billing units

1 have been adjusted for the Company's O.A.D.² tariff customers that do not pay the
2 Standard Retail Tariff T-RAC rates.

3 **Q. IF APPROVED, WHAT IS THE IMPACT ON A TYPICAL RESIDENTIAL**
4 **CUSTOMER'S BILL?**

5 A. If approved by the Commission, the Company's proposed rates would decrease the
6 monthly bill for a residential customer using 1,000 kWh by \$2.12, which would be a
7 1.2% decrease from the March 2024 typical bill.

8 **Q. IF APPROVED, WHEN DOES THE COMPANY PROPOSE THE RATES GO**
9 **INTO EFFECT?**

10 A. The Company respectfully requests for billing purposes, a rate effective date for usage on
11 October 1, 2024, or the first day of the month that is at least 15 calendar days following
12 the date of any Order of the Commission.

13 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

14 A. Yes, it does.

² The Company does not currently have any Fixed Resource Requirement ("F.O.A.D.") customers. Consistent with the Commission's Final Order in Case No. PUR-2023-00061, such customers would not be exempt from T-RAC charges.

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APPALACHIAN POWER COMPANY

VA. S.C.C. TARIFF NO. 26

RIDER T-R.A.C.
(Transmission Rate Adjustment Clause Rider)

AVAILABILITY OF SERVICE

The Transmission Rate Adjustment Clause Rider (T-RAC) will be applied on a service rendered basis to all standard customer bills under the applicable Standard Schedules or special contracts. The T-RAC shall be calculated by multiplying the kWhs of energy and kW of demand by the rates below.

Standard				
Appalachian Power Company				
Summary of Demand and Energy Rates				
	Differentiated Rates	Energy T-RAC	Demand T-RAC	T-RAC Per Off-Peak Excess kW
		per kWh	per kW	
Residential (011,012,013,014,015,019,020,051,054)		0.03646		
Residential – TOD or TOU (030,031,032,036)	On-Peak	0.08432		
	Off-Peak	0.00597		
SWS (222)		0.05812		
SGS - (231,233,234,213,281)		0.02819		
SGS - LMTOD (225,226)	On-Peak	0.06018		
	Off-Peak	0.00488		
GS-TOD Secondary (229,230)	On-Peak	0.04853		
	Off-Peak	0.00426		
GS-TOD Primary (227)	On-Peak	0.04607		
	Off-Peak	0.00404		
GS-Secondary (261)	Block 1	0.02440	\$1.98	\$0.77
	Block 2	0.01515		
	Block 3	0.00005		
GS-Primary (263)	Block 1	0.02317	\$1.91	\$0.74
	Block 2	0.01438		
	Block 3	0.00005		
GS-Subtransmission (265)	Block 1	0.02308	\$1.90	\$0.74
	Block 2	0.01433		
	Block 3	0.00005		
GS-Transmission (267)	Block 1	0.02268	\$1.89	\$0.74
	Block 2	0.01408		
	Block 3	0.00005		
LGS – TOD Secondary (337)	On-Peak	0.04853		
	Off-Peak	0.00426		
LGS – TOD Primary (339)	On-Peak	0.04607		
	Off-Peak	0.00404		
LPS - Secondary (302)		0.00004	\$10.25	\$1.06
LPS - Primary (306)		0.00004	\$9.91	\$1.02
LPS - Subtransmission (308) (309)		0.00004	\$9.85	\$1.02
LPS - Transmission (310)		0.00004	\$9.70	\$1.00
OL (093 to 143)		0.00631		

Issued:
 Pursuant to Final Order
 Dated:
 Case No. PUR-2024-00079

Effective: October 1, 2024

24616623

APPALACHIAN POWER COMPANY

VA. S.C.C. TARIFF NO. 26

RIDER F.O.A.D.-T-R.A.C.

(FRR Open Access Distribution Service - Transmission Rate Adjustment Clause Rider)

AVAILABILITY OF SERVICE

The FRR Open Access Distribution Service Transmission Rate Adjustment Clause Rider (F.O.A.D.-T-RAC) will be applied on a service rendered basis to all standard customer bills under the applicable FRR Open Access Distribution Service or Standard Schedules or special contracts. The F.O.A.D.-T-RAC shall be calculated by multiplying the kWhs of energy and kW of demand by the rates below.

FRR-OAD

Appalachian Power Company				
Summary of Demand and Energy Rates				
	Differentiated Rates	Energy T-RAC per kWh	Demand T-RAC per kW	T-RAC Per Off-Peak Excess kW
SGS - (231F,233F,234F,213F,281F)		0.02819		
GS-Secondary (261F)	Block 1	0.02440	\$1.98	\$0.77
	Block 2	0.01515		
	Block 3	0.00005		
GS-Primary (263F)	Block 1	0.02317	\$1.91	\$0.74
	Block 2	0.01438		
	Block 3	0.00005		
GS-Subtransmission (265F)	Block 1	0.02308	\$1.90	\$0.74
	Block 2	0.01433		
	Block 3	0.00005		
GS-Transmission (267F)	Block 1	0.02268	\$1.89	\$0.74
	Block 2	0.01408		
	Block 3	0.00005		
LPS - Secondary (302F)		0.00004	\$10.25	\$1.06
LPS - Primary (306F)		0.00004	\$9.91	\$1.02
LPS - Subtransmission (308F) (309F)		0.00004	\$9.85	\$1.02
LPS - Transmission (310F)		0.00004	\$9.70	\$1.00

Issued:
 Pursuant to Final Order
 Dated:
 Case No. PUR-2024-00079

Effective: October 1, 2024

APPALACHIAN POWER COMPANY
 VIRGINIA JURISDICTION
 SELECTED TYPICAL MONTHLY BILLS

Tariff Schedule	Energy / Demand Consumption	Bill Amount (a) Under Current Rates VA SCC Tariff No. 27 \$	Bill Amount (a) Under Proposed T-RAC VA SCC Tariff No. 27 \$	Dollar Increase \$	Percent Increase %
RS	100 kWh	24.33	24.12	-0.21	-0.86%
RS	250 kWh	48.92	48.39	-0.53	-1.08%
RS	500 kWh	89.88	88.82	-1.06	-1.18%
RS	750 kWh	130.80	129.21	-1.59	-1.22%
RS	1,000 kWh	171.73	169.61	-2.12	-1.23%
RS	1,500 kWh	253.65	250.47	-3.18	-1.25%
RS	2,000 kWh	335.50	331.26	-4.24	-1.26%
RS	3,000 kWh	499.27	492.91	-6.36	-1.27%
RS	5,000 kWh	826.81	816.21	-10.60	-1.28%
RS	7,500 kWh	1,236.28	1,220.38	-15.90	-1.29%
SWS	1,500 kWh	281.39	296.24	14.85	5.28%
SWS	3,000 kWh	553.19	582.89	29.70	5.37%
SWS	5,000 kWh	915.63	965.13	49.50	5.41%
SWS	10,000 kWh	1,821.74	1,920.74	99.00	5.43%
SWS	30,000 kWh	5,446.15	5,743.15	297.00	5.45%
SWS	50,000 kWh	9,070.57	9,565.57	495.00	5.46%
SGS	375 kWh	64.55	62.74	-1.81	-2.80%
SGS	1,000 kWh	155.83	151.02	-4.81	-3.09%
SGS	2,000 kWh	301.89	292.27	-9.62	-3.19%
SGS	4,000 kWh	594.01	574.77	-19.24	-3.24%
GS	Secondary 40 kW / 10,000 KWH	1,455.48	1,461.98	6.50	0.45%
	Secondary 75 kW / 30,000 KWH	3,748.80	3,833.55	84.75	2.26%
	Secondary 500 kW / 219,000 KWH	25,927.08	26,493.03	565.95	2.18%
GS	Primary 1,000 kW / 200,000 KWH	30,108.65	29,963.65	-145.00	-0.48%
	Primary 1,000 kW / 438,000 KWH	49,847.30	50,926.30	1,079.00	2.16%
LPS	Secondary 1,000 kW / 450,000 KWH	55,602.30	53,851.30	-1,751.00	-3.15%
	Secondary 2,000 kW / 1,000,000 KWH	116,005.68	112,505.68	-3,500.00	-3.02%
	Secondary 3,000 kW / 2,000,000 KWH	198,936.38	193,696.38	-5,240.00	-2.63%
LPS	Primary 3,500 kW / 2,000,000 KWH	199,577.89	193,667.89	-5,910.00	-2.96%
	Primary 5,000 kW / 3,000,000 KWH	292,148.59	283,708.59	-8,440.00	-2.89%
LPS	Subtransmission 10,000 kW / 5,000,000 KWH	479,158.59	462,258.59	-16,900.00	-3.53%
	Subtransmission 20,000 kW / 13,000,000 KWH	1,107,924.19	1,074,184.19	-33,740.00	-3.05%
LPS	Transmission 15,000 kW / 9,000,000 KWH	787,736.26	762,866.26	-24,870.00	-3.16%
	Transmission 30,000 kW / 19,000,000 KWH	1,624,943.26	1,575,223.26	-49,720.00	-3.06%

(a) Excludes Sales and Use Tax Rider

20100101

SCHEDULE 46

Appalachian Power Company - VA Case No. PUR-2024-00079

Schedule Index

Projected Rate Adjustment Clause Pursuant to § 56-585.1 A 4 of the Code of Virginia

Rate Case Rule	Schedule	Witness Sponsor	Schedule	Description
20VACS-204-60 Schedule 3	Schedule 3 - Capital Structure and Cost of Capital Statement - Per Books and Average	CEN	Schedule 3	
20VACS-204-60 Schedule 4	Schedule 4 - Schedules of Long-Term Debt, Preferred and Preference Stock, Job Development Credits, and Any Other Component of Ratemaking Capital	CEN	Schedule 4	
20VACS-204-60 Schedule 5	Schedule 5 - Schedule of Short-Term Debt, Revolving Credit Agreements, and similar Short-Term Financing Arrangements	CEN	Schedule 5	
20VACS-204-60 Schedule 8	Schedule 8 - Proposed Cost of Capital Statement Instructions: Provide the applicant's proposed capital structure/cost of capital schedule. In conjunction provide schedules that support the amount and cost rate of each component of the proposed capital structure, and explain all assumptions used.	CEN	Schedule 8	

Rate Case Rule	Schedule 46 Index	Witness Sponsor	Section	Statement	Description
20VACS-204-90 Schedule 46 a 1	A schedule of all projected and actual costs, by type of cost and year,	BJF	1 - Actuals	1	Actuals
		CEN		1	Cost of Service Summary
		CEN/MMH		2	Cost of Service Itemization/VA. Jurisdictional Allocation Factors
		MMH		3	Derivation of PJM Charges
		MMH	1 - Forecast	4	Regional Transmission Enhancement Project Charges
		MMH		5	Derivation of PJM Administrative Charges
		CEN/MMH		6	Update Calculation
		CEN/MMH		7	Projected T-RAC Costs
20VACS-204-90 Schedule 46 a 2	Provide transaction-level details to facilitate the sampling and audit of such actual costs electronically to the Division to Utility Accounting and Finance in an electronic spreadsheet with all underlying formulas and assumptions. Provide the information for the period covered by the most recently completed true-up of the Federal Energy Regulatory Commission wholesale transmission formula rate as of the application filing date.	BJF	2	1	Provided May 14, 2024 via Staff Informal Set 1
20VACS-204-90 Schedule 46 a 3	The annual revenue requirement over the duration of the proposed rate adjustment clause by year and by class on a total company and Virginia jurisdictional basis, including all supporting calculations and assumptions.	CEN	3	1	Revenue Requirement Calculation
				2	Rate Year Revenue Req. by Class
				3	RAC Revenue by Class
20VACS-204-90 Schedule 46 a 4	Detailed information relative to the applicant's methodology for allocating the revenue requirement among rate classes and the design of class rates.	CEN	4	1	Customer Class Demand and Energy Allocators
				2	TOD Revenue Requirement and Rate Design
				3	Rate Design
				4	Revenue Proof
				5	Rate Design Billing Determinants
				6	Rate Design Billing Determinants - TOD
20VACS-204-90 Schedule 46 a 5	The docket or case number and Federal Energy Regulatory Commission ruling approving the wholesale transmission formula, rate, or cost for which the applicant is seeking recovery approval. In lieu of providing copies of such rulings, the applicant may provide a link to where such information can be found on the Internet.		5	1	

APPALACHIAN POWER COMPANY
 CAPITAL STRUCTURE AND COST OF CAPITAL STATEMENT - PER BOOKS AND AVERAGE
 GENERATION, TRANSMISSION AND DISTRIBUTION FUNCTIONS
 AS OF 12/31/23

	12/31/22	12/31/23	
	\$	\$	
A.1. <u>American Electric Power Co., Inc.</u>			
<u>Capital Structure Per</u>			
<u>Balance Sheet</u> (\$000)			
Short-term Debt	4,281,900	2,666,200	
Customer Deposits	-	-	
Other Current Liabilities	165,800	161,100	
Long-term Debt	7,372,500	8,190,900	
Preferred & Preference Stock	-	-	
Mezzanine Equity	45,900	42,500	
Common Equity	23,893,400	25,246,700	
Investment Tax Credits	-	-	
Other Tax Deferrals	-	-	
Other Liabilities	112,100	69,500	
Total Capitalization	<u>35,871,600</u>	<u>36,376,900</u>	
A.2. <u>Appalachian Power Co.</u>			
<u>(Consolidated)</u>			
<u>Capital Structure Per</u>			
<u>Balance Sheet</u> (\$000)			
Short-term Debt	182,155	339,617	
Customer Deposits	75,090	79,994	
Other Current Liabilities	845,611	702,530	
Long-term Debt	5,410,553	5,588,328	
Preferred & Preference Stock	-	-	
Common Equity	4,975,472	5,276,802	
Investment Tax Credits	295	285	
Other Tax Deferrals	2,313,980	2,259,958	
Other Liabilities	137,590	136,739	
Total Capitalization	<u>13,940,746</u>	<u>14,384,252</u>	
A.3. <u>Appalachian Power Co.</u>			
<u>Capital Structure Per</u>			
<u>Balance Sheet</u> (\$000)			
Short-term Debt ⁽¹⁾	182,155	339,617	A
Customer Deposits	75,090	79,994	B
Other Current Liabilities	841,279	700,792	C
Long-term Debt	5,237,227	5,588,328	D
Preferred & Preference Stock	-	-	E
Common Equity ⁽⁸⁾	4,973,570	5,276,802	
Investment Tax Credits ⁽⁵⁾	295	285	F
Other Tax Deferrals ⁽⁶⁾	2,318,637	2,264,441	G
Other Liabilities ⁽⁷⁾	137,298	136,739	H
Total Capitalization	<u>13,765,552</u>	<u>14,386,997</u>	

APPALACHIAN POWER COMPANY
CAPITAL STRUCTURE AND COST OF CAPITAL STATEMENT - PER BOOKS AND AVERAGE
GENERATION, TRANSMISSION AND DISTRIBUTION FUNCTIONS
AS OF 12/31/23

	12/31/22	12/31/23	
	\$	\$	
B. <u>Appalachian Power Company</u> <u>Capital Structure For</u> <u>Ratemaking Purposes</u> (\$000)			
Short-term Debt ⁽²⁾	149,980	283,835	A
Long-term Debt	5,172,551	5,378,408	D
Preferred & Preference Stock	-	-	E
Common Equity	4,973,570	5,276,802	
Accumulated Deferred Investment Tax Credits ⁽³⁾⁽⁴⁾	-	-	F
Total Capitalization	<u>10,296,102</u>	<u>10,939,045</u>	
C. <u>Appalachian Power Company</u> <u>Capital Structure Weights</u> <u>For Ratemaking Purposes</u> (%)			
Short-term Debt	1.457	2.595	
Long-term Debt	50.238	49.167	
Preferred & Preference Stock	0.000	0.000	
Common Equity	48.305	48.238	
Accumulated Deferred Investment Tax Credits	0.000	0.000	
Total Capitalization (100%)	<u>100.000</u>	<u>100.000</u>	
D. <u>Appalachian Power Company</u> <u>Component Capital Cost Rates</u> ⁽⁸⁾ (%)			
Short-term Debt ⁽²⁾	4.430	5.816	
Long-term Debt	4.786	4.898	
Preferred & Preference Stock	0.000	0.000	
Common Equity (Authorized)	9.500	9.500	
Accumulated Deferred Investment Tax Credits	0.000	0.000	
E. <u>Appalachian Power Company</u> <u>Weighted Cost of Capital</u> (%)			
Short-term Debt	0.065	0.151	
Long-term Debt	2.404	2.408	
Preferred & Preference Stock	0.000	0.000	
Common Equity (Authorized)	4.589	4.583	
Accumulated Deferred Investment Tax Credits	0.000	0.000	
Total Weighted Cost of Capital	<u>7.058</u>	<u>7.142</u>	

Exhibit No. ____
 Witness: CEN
 Schedule 4
 Page 1 of 2

APPALACHIAN POWER COMPANY
 SHORT-TERM DEBT
 AS OF DECEMBER 31, 2023

Month	Money Pool Total Dollar Days	Average Balance	Interest (No line of credit fees)
January - 23	\$ 7,115,546,550	\$ 229,533,760	\$ 986,341
February	8,025,133,513	286,611,911	1,142,277
March	10,540,105,691	340,003,409	1,540,740
April	10,378,677,757	345,955,925	1,573,389
May	8,982,469,641	289,757,085	1,390,521
June	8,353,385,832	278,446,194	1,317,003
July	8,376,217,515	270,200,565	1,328,774
August	7,892,093,515	254,583,662	1,257,986
September	6,926,433,659	230,881,122	1,094,170
October	7,688,265,331	248,008,559	1,220,026
November	8,804,485,416	293,482,847	1,401,707
December - 23	10,516,941,432	339,256,175	1,683,904
Total	<u>\$ 103,599,755,852</u>	<u>\$ 3,406,721,215</u>	<u>\$ 15,936,836</u>
Average Daily Balance	<u>\$ 283,834,948</u>		

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Exhibit No. ____
Witness: CEN
Schedule 4
Page 2 of 2

APPALACHIAN POWER COMPANY- BUNDLED
ACCUMULATED DEFERRED ITC
FOR VIRGINIA RATEMAKING CAPITAL STRUCTURES
AS OF DECEMBER 31, 2023

	<u>A/C</u>	<u>Amount</u>
Total Accumulated Deferred ITC	2550001	284,659
Less:		
Total Deferred ITC - SW	255.4012E	0
Hydro Credit - Investment Tax Credit	255.4012F	283,135
Total SEC Alloc. - ITC - 10% - 46F1	255.4012K	<u>1,524</u>
Net Accumulated DITC-Capital Structure		<u><u>0</u></u>

APPALACHIAN POWER COMPANY - VIRGINIA
VIRGINIA SOC QUARTERLY REVIEW
EFFECTIVE COST OF LONG-TERM DEBT
ACTUAL AS OF DECEMBER 31, 2023

DISCOUNT IS - EXPI IS + LOSS IS + GAIN (LOSS)																		
F2:R13	ISSUE DATE	DUE DATE	AVERAGE TERM IN YEARS	PRINCIPAL AMOUNT ISSUED	PREMIUM OR (DISCOUNT) AT ISSUANCE	COMPANY ISSUANCE EXPENSE	NET BALANCE UNAMORTIZED DISCOUNTS	NET BALANCE UNAMORTIZED ISSUANCE EXPENSE	NET BALANCE UNAMORTIZED LOSS ON REACQUIRED DEBT	NET BALANCE UNAMORTIZED HEDGE EXPENSES	NET PROCEEDS AT ISSUANCE	NET PROCEEDS RATIO	EFFECTIVE COST RATE	CURRENTLY OUTSTANDING	NET PROCEEDS OUTSTANDING 12/31/2023	ANNUALIZED COST	WEIGHTED COST RATE	
Senior Notes																		
3.400%	5/18/2015	5/1/2025	10.03	300,000,000	(1,663,000)	2,312,703	(1,142,000)	306,166	-	-	(a)	298,672,287	98.67	3.334	300,000,000	299,549,832	18,348,495	
4.000%	5/6/2014	5/15/2044	30.00	300,000,000	(2,082,000)	2,972,178	(1,411,152)	2,013,887	-	-	(b)	284,944,872	94.31	4.263	300,000,000	284,574,961	13,334,338	
4.400%	5/18/2015	5/1/2045	30.02	350,000,000	(2,530,500)	97,672,163	(1,799,474)	2,478,963	67,120,838	-	(c)	249,597,337	71.31	6.874	350,000,000	278,892,624	18,503,690	
3.500%	2/28/2006	10/1/2035	29.86	250,000,000	(1,800,000)	(411,465)	(738,876)	908,190	-	-	(d)	248,511,465	99.40	3.842	250,000,000	248,352,834	14,589,444	
5.850%	5/6/2003	5/15/2033	30.01	200,000,000	(422,000)	8,730,938	(131,320)	351,080	1,850,886	-	(e)	190,847,082	95.43	6.291	200,000,000	197,280,795	12,410,547	
6.375%	4/10/2008	4/1/2038	29.96	250,000,000	(757,500)	(3,359,571)	(309,314)	623,732	-	2,378,931	(f)	252,602,971	101.12	6.291	250,000,000	251,143,885	15,800,116	
6.700%	8/17/2007	8/15/2037	25.86	250,000,000	(62,500)	2,348,344	(28,261)	1,063,139	-	-	(g)	247,389,156	98.04	6.776	250,000,000	248,938,560	18,864,886	
7.000%	3/25/2008	4/1/2038	30.00	500,000,000	(3,200,000)	9,237,178	(1,558,311)	2,098,607	-	(2,268,652)	(h)	487,402,854	97.49	7.203	500,000,000	494,074,430	33,596,110	
3.200%	5/1/2017	5/1/2027	10.03	325,000,000	(1,837,500)	2,848,000	(561,637)	897,311	-	-	(i)	320,694,440	98.66	3.437	325,000,000	323,541,062	11,144,579	
4.500%	3/6/2018	3/1/2048	29.87	400,000,000	(2,736,000)	4,158,438	(2,283,200)	3,493,349	-	-	(j)	383,105,564	96.28	4.807	400,000,000	394,209,451	18,159,509	
3.700%	5/1/2010	5/1/2040	29.84	500,000,000	(2,953,000)	5,198,634	(3,583,633)	4,484,343	-	-	(k)	491,936,367	98.39	3.700	500,000,000	481,671,854	18,653,617	
2.700%	3/1/2021	4/1/2031	10.05	500,000,000	(2,203,000)	(8,433,487)	(1,378,817)	2,981,816	-	7,820,639	(l)	504,230,487	100.85	2.684	500,000,000	503,680,226	13,088,024	
4.500%	8/1/2022	8/1/2032	9.99	500,000,000	(1,315,000)	4,166,337	(1,128,708)	3,801,577	-	-	(m)	484,488,663	96.90	4.639	500,000,000	485,289,714	22,674,378	
				4,625,000,000								4,472,844,353		4,625,000,000	4,573,480,868	221,617,878		
Term Loans																		
0.612%	5/26/2022	5/26/2025	3.00	125,000,000	-	515,004	-	229,039	-	-	(n)	124,484,966	99.59	6.786	125,000,000	124,770,961	8,491,833	
6.458%	7/23/2022	6/23/2024	1.83	300,000,000	-	18,171	-	6,240	-	-	(o)	299,984,679	99.99	6.458	300,000,000	299,983,750	19,372,025	
				425,000,000								424,469,645		425,000,000	424,754,721	27,864,460		
Rate-Sensitive Debt																		
13.67%	6/7/1999	6/8/2025	29.96	2,550,040	-	-	-	-	-	-	-	2,550,040	100.00	13.670	1,701,032	1,701,032	232,876	
				2,550,040							-	2,550,040		1,701,032	1,701,032	232,876		
Investment Purchase Contracts																		
WV EDA SWDPRB Insurance Project - Series 2003A	3.000%	1/13/2018	21/2036	75,000,000	-	746,038	-	221,188	161,909	-	(p)	74,253,964	98.01	3.952	75,000,000	74,506,803	2,948,196	
WV EDA GWCFRDB Insurance Project - Series 2002B	4.900%	3/10/2016	21/2038	50,275,000	-	571,061	-	174,663	135,261	-	(q)	48,703,000	96.86	4.900	50,275,000	49,944,826	2,463,400	
WV EDA PCRRB Amos Project - Series 2010A	0.000%	12/3/2020	12/15/2025	4.96	50,000,000	-	716,157	-	145,840	156,419	-	(r)	48,281,643	96.50	0.021	50,000,000	49,884,741	487,622
WV EDA PCRRB Amos Project - Series 2011A	1.000%	8/1/2020	8/1/2025	5.00	63,350,000	-	427,820	-	143,135	-	-	(s)	64,022,380	99.35	1.133	63,350,000	63,206,865	740,061
WV EDA PCRRB Amos Project - Series 2015A	2.630%	4/1/2019	4/1/2024	5.00	86,000,000	-	558,367	-	26,108	-	-	(t)	85,444,633	99.35	2.689	86,000,000	85,971,882	2,311,895
WV EDA PCRRB Amos Project - Series 2009A	3.750%	8/1/2022	8/1/2025	3.00	54,378,000	-	880,715	-	162,449	204,722	-	(u)	53,604,285	98.75	4.198	54,378,000	54,007,829	2,207,512
WV EDA PCRRB Amos Project - Series 2005B	3.750%	8/1/2022	8/1/2025	3.00	50,000,000	-	642,333	-	154,286	103,165	-	(v)	49,357,667	98.72	4.210	50,000,000	49,652,548	2,080,532
				431,000,000								429,656,680		431,000,000	429,656,502	13,309,050		
Outstanding Balance & Amortization of Costs Associated with Unretained Debt Redemptions																		
											(w)	(533,616)			(533,616)	207,383		
TOTAL LONG-TERM DEBT														5,462,832,100	5,376,468,046	263,437,311	4.896	

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APPALACHIAN POWER COMPANY
VIRGINIA RETAIL JURISDICTION
ACTUAL CAPITAL STRUCTURE AND PROPOSED COST OF CAPITAL AS OF DECEMBER 31, 2023

Exhibit No. __
Witness: CEN
Schedule 8
Page 1 of 1

	<u>Amount Outstanding</u>	<u>Percent</u> %	<u>Cost Rate</u> %	<u>Weighted Return Component</u> %	<u>Balancing Percent Column</u> %
Long-term Debt	\$ 5,378,408,046	49.167%	94.987% 4.898	2.408	49.167073
Short-term Debt	\$ 283,834,948	2.595%	5.013% 5.816 (b) 4.944	0.151	2.594696
Total Debt	\$ 5,662,242,994			2.559 (d)	
Preferred Stock	\$ -	0.000%	-	-	
Common Stock	\$ 5,276,801,715 (a)	48.238%	9.500	4.583	48.238232
Investment Tax Credit	\$ -	0.000%	7.821 (c)	-	0
Total	\$ 10,939,044,709	100.00%			100.00
Overall Cost of Capital				7.142	

(a) Excludes securitization

(b) Short-term debt rate per Schedule 5

(c) Capital structure used to determine cost rate for Accumulated DITC

	<u>Amount Outstanding (\$)</u>	<u>Percent</u> %	<u>Cost Rate</u> %	<u>Weighted Return Component</u> %	
Long-term Debt	5,378,408,046	50.477%	4.898	2.472	50.476792
Preferred Stock	0	0.000%	-	-	
Common Equity	5,276,801,715	49.523%	9.500	4.705	49.523208
Total	10,655,209,761	100.00%			100.00
Overall Cost of Capital				7.177	

(d) Weighted Debt Cost for Interest Synchronization:

$$2.559 + (2.472 \times -) = 2.559$$

APPALACHIAN POWER COMPANY - VIRGINIA
SUBSECTION A-4 COSTS
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
COST OF SERVICE SUMMARY
Rate Year Beginning October 1, 2024

APCO Exhibit No. _____
Witness CEN
Schedule 46
a(1) Statement 1-COS-Summary
Page 1 of 1

Recovery Item 1- Current Subsection A-4 Costs

Line No.	Line Item	Amount	Item Location
1	Network Integration Transmission Service Charges	\$ 347,426,146	Schedule 46, Section 1 Statement 2, Page 1 of 1; Col. (E); Line 1
2	Firm and Non-Firm Point to Point Transmission Credits	\$ (5,437,582)	Schedule 46, Section 1 Statement 2, Page 1 of 1; Col. (E); Line 2
3	Ancillary Service Schedule 1A Charges	\$ 736,865	Schedule 46, Section 1 Statement 2, Page 1 of 1; Col. (E); Line 3
4	PJM Transmission Enhancement Charges	\$ 23,190,189	Schedule 46, Section 1 Statement 2, Page 1 of 1; Col. (E); Line 6
5	PJM Administrative Charges	\$ 3,919,587	Schedule 46, Section 1 Statement 2, Page 1 of 1; Col. (E); Line 12
6	Demand Response Program Cost Recovery	\$ —	Schedule 46, Section 1 Statement 2, Page 1 of 1; Col. (E); Line 13
7	Subtotal T-RAC Current Cost of Service (Line 1 - 6)	\$ 369,835,355	

Recovery Item 2 - True-Up of Subsection A-4 Costs

8	T-RAC Prior Period True-up as of April 2024	\$ 7,134,607	Schedule 46, Section 1, Statement 1
9	Subtotal T-RAC True Up (Line 8)	\$ 7,134,607	

Recovery Item 3 - Update - April 2024 thru September 2024

10	Update Period April 2024 thru September 2024	\$ 559,370	Schedule 46, Section 1, Statement 7; Page 1 of 1; Line 25(A)
11	Subtotal T-RAC Update (Line 10)	\$ 559,370	
12	Total Section A-4 Cost of Service (Line 7+9+11)	\$ 377,529,331	

Demand	\$ 376,796,869
Energy	\$ 732,463
	\$ 377,529,331

PUR-2023-00061 (Energy \$/ Total T-RAC Revenue Requirement)	-0.079%
Current Cost of Service (Energy \$/ Total T-RAC Revenue Requirement)	0.199%

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APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
COST OF SERVICE - ITEMIZATION
Rate Year Beginning October 1, 2024

APCO Exhibit No.
Witness Mark Vigen
Schedule 40
a(1) Statement 2 COG Item 2
Page 1 of 1

(A) (B) (C) (D) (E)
(B) * (E)

Cost of Service 10/1/2024 - 9/30/2025

Line No.	Description	APCO's Transmission Expense*	VA Juris. %	Allocator Description	VA's Transmission Expense	APCO's Total Transmission Expense** Item Location
1	Network Integration Transmission Service (NITS) Charges	\$ 859,002,663	62.72%	Demand	\$ 547,426,146	Schedule 40, Section 1, Statement 3, Page 1 of 1; Line 7
2	Point to Point Transmission Service Credits	\$ (15,314,040)	62.72%	Demand	\$ (6,437,592)	Schedule 40, Section 1, Statement 3; Page 1 of 1; Line 8
3	Ancillary Service Schedule 1A Charges (Transmission Owner Scheduling, System Control and Load Dispatching)	\$ 1,421,827	61.83%	Energy	\$ 730,886	Schedule 40, Section 3, Statement 3; Page 1 of 1; Line 14
4	PJM Transmission Enhancement Charges (Schedule 12)					
5	Schedule 12 RTEP Projects	\$ 47,091,220	62.72%	Demand	\$ 24,626,495	Schedule 40, Section 1, Statement 4, Page 22 of 22; APCo RTEP
6	Transmission Enhancement Charge Adjustment (FERC EL05-121-002)	\$ (3,103,747)	62.72%	Demand	\$ (1,639,299)	
7	Total of PJM Transmission Enhancement Charges	\$ 43,987,473			\$ 23,190,199	
7	PJM Administrative Charges*					
8	PJM Admin - BSC & DG - Internal	\$ 6,159,120	48.00%	Demand	\$ 2,968,382	Schedule 40, Section 1, Statement 5; Page 1 of 1; 5014001 (A)
9	PJM Admin - RP & SDG - Internal	\$ 2,000,079	48.00%	Demand	\$ 963,208	Schedule 40, Section 1, Statement 5; Page 1 of 1; 5018001 (B)
10	PJM Admin - MAM & SC - Internal	\$ --	48.00%	Demand	\$ --	Not Applicable
11	PJM Admin - Default LSE	\$ --	48.00%	Demand	\$ --	Not Applicable
12	PJM Administrative Charges (Line 8 - 11)	\$ 6,165,007			\$ 3,919,687	
13	Demand Response Program Cost Recovery	\$ --	62.72%	Demand	\$ --	
14	Total T-RAC Revenue Requirement (Line 1 + 2 + 3 + 6 + 12 + 13)	\$ 702,263,726			\$ 389,636,355	

Notes

- ☐ 12 Month Demand & Energy Study of Transmission - Excludes Kingsport and PERC Customers (December)
☐ 12 Month Demand and Energy Study - Includes Kingsport and PERC Customers (December)

Cost of Service
RTEP
PJM Admin
Cost

240610029

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

Required
 Transmission
 Enhancements
 owned by: Trans-
 Allegheny Interstate
 Line Company
 (TrAILCo)

PJM	Annual	Monthly
Upgrade	Revenue	Revenue

ID	Requirement	Requirement	AEP
		(June 2023 - May 2024)	
b0216	\$2,797,287.19	\$233,107.27	14.29%
			\$33,311.03
b0216_dfax	\$2,797,287.19	\$233,107.27	\$—
b0218	\$2,777,431.68	\$231,452.64	\$—
b0328.1	\$67,965,032.91	\$5,663,752.74	14.29%
b0328.2			\$809,350.27
b0347.1			
b0347.2			
b0347.3			
b0347.4			
b0328.1_dfax	\$—	\$—	\$—
b0328.2_dfax	\$3,249,408.22	\$270,784.02	\$—
b0347.1_dfax	\$15,014,155.42	\$1,251,179.62	\$—
b0347.2_dfax	\$43,947,549.58	\$3,662,295.80	\$—
b0347.3_dfax	\$4,244,416.30	\$353,701.36	\$—
b0347.4_dfax	\$1,509,503.38	\$125,791.95	\$—

24091003

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—
b0323	\$223,035.74	\$18,586.31	\$—
			\$—
b0230	\$901,212.32	\$75,101.03	\$—
			\$—
b0559	\$335,480.72	\$27,956.73	14.29%
			\$3,995.02
b0559_dfax	\$335,480.72	\$27,956.73	\$—
			\$—
b0229	\$977,799.04	\$81,483.25	\$—
			\$—
b0495	\$2,231,554.44	\$185,962.87	14.29%
			\$26,574.09
b0495_dfax	\$2,231,554.44	\$185,962.87	21.66%
			\$40,279.56
b0343	\$600,408.02	\$50,034.00	\$—
			\$—
b0344	\$583,951.80	\$48,662.65	\$—
			\$—
b0345	\$634,099.72	\$52,841.64	\$—
			\$—
b0704	\$1,015,091.28	\$84,590.94	\$—
			\$—
b1243	\$262,000.13	\$21,833.34	\$—
			\$—
b0563	\$(327,558.48)	\$(27,296.54)	\$—
			\$—
b0564	\$98,338.67	\$8,194.89	\$—
			\$—
b0674	\$2,865,778.02	\$238,814.83	\$—
			\$—
b0674.1	\$—	\$—	\$—
			\$—
b1023.3	\$136,294.07	\$11,357.84	\$—
			\$—
b1770	\$55,109.06	\$4,592.42	\$—
			\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b1990	\$(2,392,649.32)	\$(199,387.44)	\$—
b1965	\$150,929.54	\$12,577.46	\$—
b1839	\$222,896.02	\$18,574.67	\$—
b1998	\$269,606.04	\$22,467.17	\$—
b0556	\$113,301.53	\$9,441.79	\$—
b1153	\$3,578,333.11	\$298,194.43	\$—
b1023.1	\$2,693,404.60	\$224,450.38	\$—
b1941	\$3,927,986.97	\$327,332.25	\$—
b1803	\$496,548.21	\$41,379.02	14.29% \$5,913.06
b1803_dfax	\$496,548.21	\$41,379.02	\$—
b1800	\$2,755,919.30	\$229,659.94	14.29% \$32,818.41
b1800_dfax	\$2,755,919.30	\$229,659.94	\$—
b1804	\$5,063,103.08	\$421,925.26	14.29% \$60,293.12
b1804_dfax	\$5,063,103.08	\$421,925.26	\$—
b2433.1-b.2433.3	\$7,805,085.68	\$650,423.81	\$—
b1967	\$417,108.38	\$34,759.03	\$—
b1609	\$1,227,841.68	\$102,320.14	\$—
b1769			\$—
b1945	\$617,360.37	\$51,446.70	\$—
b1610	\$5,920.50	\$493.37	

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—
b1801	\$4,543,872.99	\$378,656.08	2.58%
			\$9,769.33
b1964	\$962,670.96	\$80,222.58	
			\$—
b2342	\$197,780.13	\$16,481.68	
			\$—
b1672	\$71,504.53	\$5,958.71	
			\$—
b2343	\$131,211.42	\$10,934.28	
			\$—
b1840	\$2,415,796.82	\$201,316.40	
			\$—
b2235	\$4,256,535.05	\$354,711.25	
			\$—
b2260	\$81,945.32	\$6,828.78	
			\$—
b1802	\$—	\$—	2.58%
			\$—
b1608	\$2,696,869.29	\$224,739.11	
			\$—
b2944	\$1,219,583.35	\$101,631.95	
			\$—
b0555	\$176,942.42	\$14,745.20	
			\$—
b1943	\$916,036.74	\$76,336.40	
			\$—
b2364-b2364.1	\$2,181,240.58	\$181,770.05	
			\$—
b2362	\$3,596,663.37	\$299,721.95	
			\$—
b2156	\$207,853.83	\$17,321.15	
			\$—
b2546	\$112,096.88	\$9,341.41	
			\$—
b2545	\$8,615,635.06	\$717,969.59	
			\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b2441	\$5,268,741.99	\$439,061.83	
			\$—
b2547.1	\$5,685,742.87	\$473,811.91	
			\$—
b2475	\$13,543,711.52	\$1,128,642.63	
			\$—
b1991	\$4,501,773.57	\$375,147.80	
			\$—
b2261	\$253,453.35	\$21,121.11	
			\$—
b2494	\$2,759,992.13	\$229,999.34	
			\$—
s1041	\$—	\$—	
			\$—
b2587	\$1,265,110.44	\$105,425.87	
			\$—
b2118	\$—	\$—	
			\$—
b2996-b2996.2	\$20,177,343.38	\$1,681,445.28	
			\$—
TOTAL	\$278,570,075.80	\$23,214,173.01	\$1,022,303.88

Required
 Transmission
 Enhancements
 owned by:
 Baltimore Gas and
 Electric Company's
 Network Customers

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (June 2023 - May 2024)	AEP
b0298	\$ 5,637,521.00	\$469,793.42	\$—
b0244	\$ 4,202,707.00	\$350,225.58	\$—
b0477	\$ 2,675,635.00	\$222,969.58	\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—
b0497	\$ 2,589,154.00	\$215,762.83	
			\$—
b1016	\$ 10,627,580.00	\$ 885,631.67	
			0
b1251	2852400	\$ 237,700.00	
			0
b1251.1	3578622	\$298,218.50	
			0
b2766.1	533557.5	\$44,463.13	0.1429
			6353.78
b2766.1_dfax	\$533,557.50	\$44,463.13	
			\$—
b2992.3	\$43,026.00	\$3,585.50	2.25%
			\$80.67
b2992.4	\$1,465,571.00	\$122,130.92	2.25%
			\$2,747.95
b2992.1	\$2,836,073.00	\$236,339.42	2.25%
			\$5,317.64
b2992.2	\$3,664,582.00	\$305,381.83	2.25%
			\$6,871.09
TOTAL	\$41,239,986.00	\$3,436,665.51	2137113.00%

Transmission

PJM	Annual	Monthly	
Upgrade	Revenue	Revenue	
ID	Requirement	Requirement	AEP
		(Feb - Dec 2024)	
b0217	\$90,248.43	\$7,520.70	14.29%
			\$1,074.71
b0217_dfax	\$90,248.43	\$7,520.70	
			\$—
b0222	\$73,837.14	\$6,153.09	\$14.29%

APCO Exhibit No. _____

Witness: MMH

Schedule 46

a(1) Statement 4 PJM RTEP

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$879.28
b0222_dfax	\$73,837.14	\$6,153.09	
			\$—
b0226	\$740,823.76	\$61,735.31	
			—
b0403	811405.62	\$67,617.14	
			0
b0328.1	\$11,208,933.19	\$934,077.77	0.14
			\$133,479.71
b0328.1_dfax	\$11,208,933.19	\$934,077.77	
			\$—
b0328.3	\$686,718.95	\$57,226.58	14.29%
			\$8,177.68
b0328.3_dfax	\$686,718.95	\$57,226.58	
			\$—
b0328.4	\$154,954.31	\$12,912.86	14.29%
			\$1,845.25
b0328.4_dfax	\$ 154,954.31	\$12,912.86	
			\$—
b0768	\$ 2,329,381.47	\$194,115.12	
			\$—
b0337	\$ 598,781.67	\$49,731.81	
			\$—
b0311	\$ 301,493.32	\$25,124.44	
			\$—
b0231	\$ 1,029,656.50	\$85,804.71	14.29%
			\$12,261.49
b0231_dfax	\$ 1,029,656.50	\$85,804.71	
			\$—
b0456	\$ 435,780.62	\$36,315.05	
			\$—
b0227	\$ 1,880,279.93	\$156,689.99	
			\$—
b0455	\$ 304,343.06	\$25,361.92	
			\$—

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b0453.1	\$	142,401.06	\$11,866.76	
				\$—
b0453.2	\$	1,360,939.47	\$113,411.62	
				\$—
b0453.3	\$	317,095.91	\$26,424.66	
				\$—
b0837	\$	34,688.88	\$2,890.74	14.29%
				\$413.09
b0837_dfax	\$	34,688.88	\$2,890.74	
				\$—
b0327	\$	563,935.00	\$46,994.58	
				\$—
b0329.2A	\$	4,041,731.29	\$336,810.94	
				\$—
b0329.2B	\$	8,155,505.77	\$679,625.48	14.29%
				\$97,118.48
b0329.2B_dfax	\$	8,155,505.77	\$679,625.48	
				\$—
b0467.2	\$	516,277.48	\$43,023.12	
				\$—
b1507	\$	16,285,578.52	\$1,357,131.54	14.29%
				\$193,934.10
b1507_dfax	\$	16,285,578.52	\$1,357,131.54	
				\$—
b0457	\$	5,121.38	\$426.78	14.29%
				\$60.99
b0457_dfax	\$	5,121.38	\$426.78	
				\$—
b0784	\$	3,551.33	\$295.94	14.29%
				\$42.29
b0784_dfax	\$	3,551.33	\$295.94	
				\$—
b1224	\$	1,432,790.33	\$119,399.19	
				\$—
b1508.3	\$	117,305.29	\$9,775.44	
				\$—
b1647	\$	784.60	\$65.38	14.29%
				\$9.34

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b1647_dfax	\$	784.60	\$65.38	\$—
b1648	\$	784.60	\$65.38	14.29%
				\$9.34
b1648_dfax	\$	784.60	\$65.38	\$—
b1649	\$	41,397.86	\$3,449.82	14.29%
				\$492.98
b1649_dfax	\$	41,397.86	\$3,449.82	\$—
b1650	\$	41,397.86	\$3,449.82	14.29%
				\$492.98
b1650_dfax	\$	41,397.86	\$3,449.82	\$—
b1188.6	\$	1,778,974.57	\$148,247.88	\$—
b1188	\$	73,126.44	\$6,093.87	14.29%
				\$870.81
b1188_dfax	\$	73,126.44	\$6,093.87	\$—
b1321	\$	3,895,116.54	\$324,593.05	\$—
b0756.1	\$	203,847.52	\$16,987.29	14.29%
				\$2,427.48
b0756.1_dfax	\$	203,847.52	\$16,987.29	\$—
b1797	\$	905,895.46	\$75,491.29	14.29%
				\$10,787.71
b1797_dfax	\$	905,895.46	\$75,491.29	\$—
b1799	\$	1,313,797.53	\$109,483.13	14.29%
				\$15,645.14
b1799_dfax	\$	1,313,797.53	\$109,483.13	\$—
b1798	\$	5,554,708.29	\$462,892.36	14.29%
				\$66,147.32
b1798_dfax	\$	5,554,708.29	\$462,892.36	\$—
b1805	\$	1,853,415.28	\$154,451.27	14.29%

APCO Exhibit No. _____

Witness: MMH

Schedule 46

a(1) Statement 4 PJM RTEP

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$22,071.09
b1805_dfax	\$ 1,853,415.28	\$154,451.27	
			\$—
b1508.1	\$ 6,573,023.26	\$547,751.94	
			\$—
b1508.2	\$ 1,203,962.06	\$100,330.17	
			\$—
b2053	\$ 4,419,829.17	\$368,319.10	100.00%
			\$368,319.10
b1906.1	\$ 515,654.47	\$42,971.21	14.29%
			\$6,140.59
b1906.1_dfax	\$ 515,654.47	\$42,971.21	
			\$—
b1908	\$ 6,549,756.21	\$545,813.02	14.29%
			\$77,996.68
b1908_dfax	\$ 6,549,756.21	\$545,813.02	
			\$—
b1905.2	\$ 94,258.08	\$7,854.84	14.29%
			\$1,122.46
b1905.2_dfax	\$ 94,258.08	\$7,854.84	
			\$—
b1328	\$ 401,396.12	\$33,449.68	
			\$—
b1698	\$ 2,378,876.52	\$198,239.71	
			\$—
b1907	\$ 1,984,945.86	\$165,412.16	
			\$—
b1909	\$ 352,017.57	\$29,334.80	
			\$—
b1912	\$ 10,369,115.89	\$864,092.99	
			\$—
b1701	\$ 335,834.14	\$27,986.18	
			\$—
b1791	\$ 161,254.36	\$13,437.86	
			\$—
b1694	\$ 2,439,476.02	\$203,289.67	14.29%
			\$29,050.09
b1694_dfax	\$ 2,439,476.02	\$203,289.67	
			\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b1911	\$ 2,295,314.80	\$191,276.23	
			\$—
b2471_dfax	\$ 407,531.40	\$33,960.95	
			\$—
b2471	\$ 407,531.40	\$33,960.95	14.29%
			\$4,853.02
b1905.1	\$ 13,889,653.58	\$1,157,471.13	14.29%
			\$165,402.62
b1905.1_dfax	\$ 13,889,653.58	\$1,157,471.13	
			\$—
b1905.5	\$ 555,254.87	\$46,271.24	
			\$—
b1696	\$ 12,528,924.00	\$1,044,077.00	
			\$—
b2373	\$ 2,313,851.41	\$192,820.95	14.29%
			\$27,554.11
b2373_dfax	\$ 2,313,851.41	\$192,820.95	
			\$—
b1905.3	\$ 12,367,539.28	\$1,030,628.27	
			\$—
b1905.4	\$ 9,156,662.96	\$763,055.25	
			\$—
b2744_dfax	\$ 3,065,918.21	\$255,493.18	
			\$—
b2744	\$ 3,065,918.21	\$255,493.18	14.29%
			\$36,509.98
b1905.6	\$ 152,424.02	\$12,702.00	
			\$—
b1905.7	\$ 11,895.89	\$991.32	
			\$—
b1905.9	\$ 9,504.28	\$792.02	
			\$—
b2582	\$ 5,031,037.18	\$419,253.10	14.29%
			\$59,911.27
b2582_dfax	\$ 5,031,037.18	\$419,253.10	
			\$—
b2443	\$ 2,474,959.65	\$206,246.64	
			\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b2665	\$	4,499,443.91	\$374,953.66	14.29%
				\$53,580.88
b2665_dfax	\$	4,499,443.91	\$374,953.66	
				\$—
b2758	\$	3,373,834.08	\$281,152.84	14.29%
				\$40,176.74
b2758_dfax	\$	3,373,834.08	\$281,152.84	
				\$—
b2729	\$	1,040,686.47	\$86,723.87	
				\$—
b2928	\$	1,765,876.45	\$147,156.37	14.29%
				\$21,028.65
b2928_dfax	\$	1,765,876.45	\$147,156.37	
				\$—
b2960.1	\$	1,071,649.41	\$89,304.12	14.29%
				\$12,761.56
b2960.1_dfax	\$	1,071,649.41	\$89,304.12	
				\$—
b2960.2	\$	1,149,604.16	\$95,800.35	14.29%
				\$13,689.87
b2960.2_dfax	\$	1,149,604.16	\$95,800.35	
				\$—
b2978	\$	6,715,400.75	\$559,616.73	14.29%
				\$79,969.23
b2978_dfax	\$	6,715,400.75	\$559,616.73	
				\$—
b2759	\$	28,320,102.54	\$2,360,008.54	14.29%
				\$337,245.22
b2759_dfax	\$	28,320,102.54	\$2,360,008.54	
				\$—
b3027.1	\$	3,326,802.33	\$277,233.53	
				\$—
b3019	\$	4,493,487.82	\$374,457.32	14.29%
				\$53,509.95
b3019_dfax	\$	4,493,487.82	\$374,457.32	
				\$—
b3020	\$	276,326.83	\$23,027.24	14.29%
				\$3,290.59
b3020_dfax	\$	276,326.83	\$23,027.24	

240610029

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—
b3021	\$ 2,901,404.57	\$241,783.71	14.29%
			\$34,550.89
b3021_dfax	\$ 2,901,404.57	\$241,783.71	
			\$—
b3702	\$ —	\$—	
			\$—
b3718.3	\$ 17,878,099.16	\$1,489,841.60	14.29%
			\$212,898.36
b3718.3_dfax	\$17,878,099.16	\$1,489,841.60	
			\$—
TOTAL	\$ 402,607,711.84	\$33,550,642.64	\$220,780,311.00%
	\$399,536,796.93	\$33,294,733.06	
	\$3,070,914.91	\$255,909.58	

Transmission
PJM
Upgrade
ID

Annual
Revenue
Requirement

Monthly
Revenue
Requirement
(Jan - Dec 2024)

AEP

b0130	\$ 1,499,291.00	\$124,940.92	
			\$—
b0134	\$615,675.00	\$51,306.25	
			\$—
b0145	\$ 6,595,764.00	\$ 549,647.00	
			\$—
b0411	\$1,668,605.00	\$139,050.42	
			\$—
b0498	\$1,068,283.50	\$89,023.63	0.14
			\$12,721.48
b0498_dfax	\$1,068,283.50	\$89,023.63	
			\$—
b0161	\$ 2,065,128.00	\$172,094.00	
			\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b0169	\$ 1,262,259.00	\$105,188.25	\$—
b0170	\$ 550,538.00	\$45,878.17	\$—
b0489	\$ 35,750,158.00	\$2,979,179.83	14.29%
b0489_dfax	\$ 35,750,158.00	\$2,979,179.83	\$425,724.80
b0489.4	\$ 3,884,464.00	\$323,705.33	\$—
b0172.2	\$ 1,075.50	\$89.63	14.29%
b0172.2_dfax	\$ 1,075.50	\$89.63	\$12.81
b0813	\$ 766,008.00	\$63,834.00	\$—
b1017	\$ 1,746,693.00	\$145,557.75	\$—
b1018	\$ 1,816,996.00	\$151,416.33	\$—
b0489.5-9	\$ 20,908.50	\$1,742.38	14.29%
b0489.5-9_dfax	\$ 20,908.50	\$1,742.38	\$248.99
b1410-1415	\$ 706,523.00	\$58,876.92	14.29%
b1410-1415_dfax	\$ 706,523.00	\$58,876.92	\$8,413.51
b0290	\$ 3,338,851.00	\$278,237.58	14.29%
b0290_dfax	\$ 3,338,851.00	\$278,237.58	\$39,760.15
b0472	\$ 1,251,447.00	\$104,287.25	\$—
b0664-0665	\$ 1,617,439.00	\$134,786.58	\$—
b0668	\$ 558,550.00	\$46,545.83	\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b0814	\$ 4,045,990.00	\$337,165.83	
			\$—
b1156	\$ 32,169,691.00	\$2,680,807.58	
			\$—
b1154	\$ 32,985,311.00	\$2,748,775.92	
			\$—
b1228	\$ 1,935,197.00	\$161,266.42	
			\$—
b1255	\$ 4,288,840.00	\$357,403.33	
			\$—
b1588	\$ 1,126,301.00	\$93,858.42	
			\$—
b2139	\$ 1,830,305.00	\$152,525.42	
			\$—
b1304.1-4	\$ 59,257,782.00	\$4,938,148.50	
			\$—
b1398	\$ 40,870,738.00	\$3,405,894.83	
			\$—
b1155	\$ 5,655,351.00	\$471,279.25	
			\$—
b1399	\$ 6,650,022.00	\$554,168.50	
			\$—
b2436.21_dfax	\$ 3,246,484.00	\$270,540.33	
			\$—
b2436.21	\$ 3,246,484.00	\$270,540.33	14.29%
			\$38,660.21
b2436.22_dfax	\$ 2,397,434.00	\$199,786.17	
			\$—
b2436.22	\$ 2,397,434.00	\$199,786.17	14.29%
			\$28,549.44
b2436.81_dfax	\$ 2,698,702.00	\$224,891.83	
			\$—
b2436.81	\$ 2,698,702.00	\$224,891.83	0.1429
			\$32,137.04
b2436.83_dfax	\$ 2,698,702.00	\$224,891.83	
			\$—
b2436.83	\$ 2,698,702.00	\$224,891.83	14.29%
			\$32,137.04

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b2436.90_dfax	\$	1,501,512.00	\$125,126.00	
				\$—
b2436.90	\$	1,501,512.00	\$125,126.00	14.29%
				\$17,880.51
b2437.10	\$	2,667,409.00	\$222,284.08	
				\$—
b2437.20	\$	870,451.00	\$72,537.58	
				\$—
b2437.21	\$	870,425.00	\$72,535.42	
				\$—
b2437.30	\$	3,339,924.00	\$278,327.00	
				\$—
b1590	\$	1,041,260.00	\$86,771.67	
				\$—
b1787	\$	3,019,598.00	\$251,633.17	
				\$—
b2436.10_dfax	\$	8,598,918.50	\$716,576.54	
				\$—
b2436.10	\$	8,598,918.50	\$716,576.54	0.1429
				\$102,398.79
b2436.84_dfax	\$	2,618,434.50	\$218,202.88	
				\$—
b2436.84	\$	2,618,434.50	\$218,202.88	0.1429
				\$31,181.19
b2436.85_dfax	\$	2,618,434.50	\$218,202.88	
				\$—
b2436.85	\$	2,618,434.50	\$218,202.88	14.29%
				\$31,181.19
b0376	\$	52,540.50	\$4,378.38	0.1429
				\$625.67
b0376_dfax	\$	52,540.50	\$4,378.38	
				\$—
b1589	\$	2,202,013.00	\$183,501.08	
				\$—
b2146	\$	15,749,999.00	\$1,312,499.92	
				\$—
b2702_dfax	\$	1,114,666.00	\$92,888.83	
				\$—
b2702	\$	1,114,666.00	\$92,888.83	14.29%

2401029

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$13,273.81
b2633.4	\$ 2,739,550.00	\$228,295.83	14.29%
			\$32,623.47
b2633.4_dfax	\$ 2,739,550.00	\$228,295.83	
			\$—
b2633.5	\$ 7,703,762.00	\$641,980.17	
			\$—
b2955	\$ 10,239,928.00	\$853,327.33	
			\$—
b2835.1	\$ 8,564,749.00	\$713,729.08	
			\$—
b2835.2	\$ 5,563,564.00	\$463,630.33	
			\$—
b2835.3	\$ 982,366.00	\$81,863.83	
			\$—
b2836.2	\$ 8,200,347.00	\$683,362.25	
			\$—
b2836.3	\$ 5,343,301.00	\$445,275.08	
			\$—
b2836.4	\$ 10,258,792.00	\$854,899.33	
			\$—
b2837.1	\$ 3,869,257.00	\$322,438.08	
			\$—
b2837.2	\$ 1,340,904.00	\$111,742.00	
			\$—
b2837.3	\$ 1,044,567.00	\$87,047.25	
			\$—
b2837.4	\$ 3,836,830.00	\$319,735.83	
			\$—
b2837.5	\$ 4,056,431.00	\$338,035.92	
			\$—
b2837.6	\$ 3,963,150.00	\$330,262.50	
			\$—
b2837.7	\$ 1,407,076.00	\$117,256.33	
			\$—
b2837.8	\$ 1,044,567.00	\$87,047.25	
			\$—

APCO Exhibit No. _____

Witness: MMH

Schedule 46

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b2837.9	\$ 345,893.00	\$28,824.42	\$—
b2837.10	\$ 3,490,820.00	\$290,901.67	\$—
b2837.11	\$ 4,062,521.00	\$338,543.42	\$—
b0274	\$ 1,689,663.00	\$140,805.25	\$—
b2436.33	\$ 15,765,866.00	\$1,313,822.17	\$—
b2436.34	\$ 12,625,659.00	\$1,052,138.25	\$—
b2436.60	\$ 4,306,376.00	\$358,864.67	\$—
b2986.12	\$ 5,982,286.00	\$498,523.83	\$—
b2986.21	\$ 6,016,073.00	\$501,339.42	\$—
b2986.22	\$ 12,638,030.00	\$1,053,169.17	\$—
b2836.1	\$6,972,648.00	\$581,054.00	\$—
b2986.23	\$ 2,610,795.00	\$217,566.25	\$—
b2986.24	\$1,108,162.00	\$92,346.83	\$—
b2276	\$1,338,734.00	\$111,561.17	\$—
b2276.1	\$8,401,073.00	\$700,089.42	\$—
b2276.2	\$1,583,429.00	\$131,952.42	\$—
b2436.50	\$ 6,526,249.00	\$543,854.08	\$—
b2436.70	\$ 8,127,620.00	\$677,301.67	\$—
b2437.11	\$ 2,667,409.00	\$222,284.08	\$—

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b2437.33	\$2,018,522.00	\$168,210.17	\$—
b2755	\$5,506,411.00	\$458,867.58	
			\$—
b2810.2	\$2,527,965.00	\$210,663.75	\$—
b2811	1244603	\$103,716.92	\$—
b2812	\$1,844,178.00	\$153,681.50	\$—
b2933.1	\$3,890,117.00	\$324,176.42	\$—
b2933.2	\$ 3,517,026.00	\$293,085.50	\$—
b2933.31	\$ 351,432.00	\$29,286.00	\$—
b2933.32	\$ 5,792,760.00	\$482,730.00	\$—
b2934	\$ 1,741,316.00	\$145,109.67	\$—
b2935	\$ 2,603,930.00	\$216,994.17	\$—
b2935.1	\$ 2,504,791.00	\$208,732.58	\$—
b2935.2	\$2,315,275.00	\$192,939.58	\$—
b2935.3	\$ 2,349,570.00	\$195,797.50	\$—
b2956	\$ 15,434,156.00	\$1,286,179.67	\$—
b2982.1	\$ 4,690,703.00	\$390,891.92	\$—
b2982.2	\$3,154,043.00	\$262,836.92	\$—
b2983	\$ 2,119,595.00	\$176,632.92	

b2983.1	\$2,132,893.00	\$177,741.08	\$
b2983.2	\$2,146,594.00	\$178,882.83	\$
b2986.11	\$ 32,417,733.00	\$2,701,477.75	\$
b3003.1	\$346,168.00	\$28,847.33	\$
b3003.2	\$ 294,371.00	\$24,530.92	\$
b3003.3	\$ 3,253,567.00	\$271,130.58	\$
b3003.4	\$ 2,159,644.00	\$179,970.33	\$
b3003.5	\$109,205.00	\$9,100.42	\$
b3004	\$1,493,507.00	\$124,458.92	\$

\$—

b3004.1	1493507	\$124,458.92	\$—
b3004.2	\$1,493,507.00	\$124,458.92	\$—
b3004.3	\$1,493,507.00	\$124,458.92	\$—
b3004.4	\$ 62,075.00	\$5,172.92	\$—
b3025.1	\$ 3,661,270.00	\$305,105.83	\$—

2409100203

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—
b3025.2	\$ 4,227,405.00	\$352,283.75	
			\$—
b3025.3	\$2,986,987.00	\$248,915.58	
			\$—
TOTAL	\$ 695,875,049.00	\$57,989,587.46	\$84,753,011.00%

Request
 Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (Jan - Dec 2024)	AEP
b0487	\$ 30,650,824.50	\$2,554,235.38	14.29%
			\$365,000.24
b0487_dfax	\$ 30,650,824.50	\$2,554,235.38	
			\$—
b0171.2	\$ 3,403.50	\$283.63	14.29%
			\$40.53
b0171.2_dfax	\$ 3,403.50	\$283.63	
			\$—
b0172.1	\$ 2,441.00	\$203.42	14.29%
			\$29.07
b0172.1_dfax	\$ 2,441.00	\$203.42	
			\$—
b0284.2	\$ 4,947.00	\$412.25	14.29%
			\$58.91
b0284.2_dfax	\$4,947.00	\$412.25	
			\$—
b0487.1	\$ 1,458,684.00	\$121,557.00	
			\$—
b0791	\$ 321,078.00	\$26,756.50	
			\$—
b0468	\$ 1,980,487.00	\$165,040.58	
			\$—
b2006	\$ 932,855.00	\$77,737.92	
			\$—
b2006.1	\$ 1,975,932.00	\$164,661.00	14.29%
			\$23,530.06
b2006.1_dfax	\$1,975,932.00	\$164,661.00	

240610029

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—	
b2237	\$	715,337.00	\$59,611.42	14.29%
				\$8,518.47
b2237_dfax	\$	715,337.00	\$59,611.42	
			\$—	
b2716		\$670,218.50	\$55,851.54	14.29%
				\$7,981.19
b2716_dfax	\$	670,218.50	\$55,851.54	
			\$—	
b2824	\$	816,714.50	\$68,059.54	14.29%
				\$9,725.71
b2824_dfax	\$	816,714.50	\$68,059.54	
			\$—	
b2552.2	\$	64,555.00	\$5,379.58	
			\$—	
TOTAL		\$74,437,295.00	\$6,203,107.94	41488417.00%

Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (Jan - Dec 2024)	AEP
b0504	\$357,796.50	\$29,816.38	\$0.14 426076.00%
b0504_dfax	\$357,796.50	\$29,816.38	\$1.00 2981638.00%
b0318	\$1,298,673.00	\$108,222.75	\$0.99 10714052.00%
b0839	\$876,394.00	\$73,032.83	\$1.00 7283564.00%
b1231	\$1,363,285.00	\$113,607.08	\$0.97 10984669.00%
b0570	\$1,524,966.00	\$127,080.50	\$0.42 5336110.00%
b1465.2	\$851,680.50	\$70,973.38	\$0.14 1014210.00%
b1465.2_dfax	\$851,680.50	\$70,973.38	\$1.00 7097338.00%

240610026

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b1465.4	\$352,738.00	\$29,394.83	\$0.14 420052.00%
b1465.4_dfax	\$352,738.00	\$29,394.83	\$1.00 2939483.00%
b1034.1	\$1,945,781.00	\$162,148.42	\$0.96 15567870.00%
b1034.6	\$305,305.00	\$25,442.08	\$0.96 2442694.00%
b1465.3	\$1,297,833.50	\$108,152.79	\$0.14 1545503.00%
b1465.3_dfax	\$1,297,833.50	\$108,152.79	\$1.00 \$10,815,279.00%
b1712.2	\$254,139.00	\$21,178.25	0.00%
b1864.2	\$258,200.00	\$21,516.67	\$0.87 1876684.00%
b2048	\$729,382.00	\$60,781.83	\$0.92 5621711.00%
b1034.8	\$576,006.00	\$48,000.50	\$0.96 4608528.00%
b1870	\$917,733.00	\$76,477.75	\$0.68 5212723.00%
b1032.2	\$3,175,212.00	\$264,601.00	\$0.90 23806152.00%
b1034.2	\$1,403,708.00	\$116,975.67	\$0.96 11230834.00%
b1034.3	\$1,861,403.00	\$155,116.92	\$0.96 14892775.00%
b2020	\$20,715,839.00	\$1,726,319.92	\$0.88 \$1,525,894.18
b2021	\$5,993,681.00	\$499,473.42	\$0.92 45911597.00%
b1659.14	\$3,779,024.00	\$314,918.67	\$0.14 4500188.00%
b1659.14_dfax	\$3,779,024.00	\$314,918.67	\$0.47 14876758.00%
b2032	\$535,056.00	\$44,588.00	0.00%
b1034.7	\$649,784.00	\$54,148.67	\$0.96 5198814.%

2406190426

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b2018	\$2,917,531.00	\$243,127.58	\$0.14 3442687.%
b1864.1	\$10,484,385.00	\$873,698.75	\$0.87 76204005.00%
b1661	\$124,781.50	\$10,398.46	\$0.14 148594.%
b1661_dfax	\$124,781.50	\$10,398.46	\$1.00 1039846.00%
b2017	\$10,102,334.00	\$841,861.17	\$0.34 28917931.00%
b1818	\$9,017,754.00	\$751,479.50	\$0.88 66355640.00%
b1819	\$12,014,047.00	\$1,001,170.58	\$0.87 87282051.00%
b1032.4	\$1,055,816.00	\$87,984.67	\$0.90 7915981.00%
b1666	\$3,058,139.00	\$254,844.92	\$0.91 23101692.00%
b1957	\$1,380,980.00	\$115,081.67	\$0.69 \$79,878.19
b1962	\$1,320,857.50	\$110,071.46	\$0.14
b1962_dfax	1,320,858	\$110,071.46	\$15,729.21 \$1.00
b2019	8199670	\$683,305.83	110071.46 \$0.94
b1032.1	3951729	\$329,310.75	640530.89 \$0.90
b1948	\$ 6,552,436	\$546,036.33	296280.88 \$—
b2022	\$ 507,979	\$42,331.58	97.99% \$41,480.72

240610026

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b1660	\$	196,328	\$16,360.67	14.29%
				\$2,337.94
b1660_dfax		\$196,328.00	\$16,360.67	37.66%
				\$6,161.43
b1660.1		\$1,721,694.00	\$143,474.50	14.29%
				\$20,502.51
b1660.1_dfax	\$	1,721,694	\$143,474.50	\$37.66%
				\$54,032.50
b1663.2	\$	307,885	\$25,657.08	\$14.29%
				\$3,666.40
b1663.2_dfax	\$	307,885	\$25,657.08	\$100.00%
				\$25,657.08
b1875	\$	10,278,244	\$856,520.33	
				\$—
b1797.1	\$	3,680,990	\$306,749.13	\$14.29%
				\$43,834.45
b1797.1_dfax	\$	3,680,990	\$306,749.13	\$0.06%
				\$184.05
b1659		\$6,185,385.00	\$515,448.75	\$0.94
				482511.57
b1659.13		2969798	\$247,483.17	\$0.14
				\$35,365.34
b1659.13_dfax		2969798	\$247,483.17	0.7532
				186404.32
b1495		5111322	\$425,943.50	0.8722
				371507.92
b1712.1	\$	28,851	\$2,404.25	
				\$—
b1465.1		\$3,909,362.00	\$325,780.17	75.06%
				\$244,530.60
b2230		\$784,250.50	\$65,354.21	\$14.29%
				\$9,339.12
b2230_dfax		\$784,250.50	\$65,354.21	\$100.00%
				65,354.21
b2423		\$1,215,172.00	\$101,264.33	\$14.29%

240610026

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$14,470.67
b2423_dfax	\$ 1,215,172	\$101,264.33	\$100.00%
			\$101,264.33
b2687.1_dfax	\$ 4,160,766	\$346,730.50	\$100.00%
			\$346,730.50
b2687.1	\$ 4,160,766	\$346,730.50	\$14.29%
			\$49,547.79
b2687.2_dfax	\$561,105.00	\$46,758.75	\$1.00
			46758.75
b2687.2	\$561,105.00	\$46,758.75	\$0.14
			6681.83
b1465.5	532559.5	\$44,379.96	\$0.14
			6341.90
b1465.5_dfax	532559.5	\$44,379.96	\$1.00
			44379.96
b2831.1	\$ 88,676	\$7,389.67	\$24.63%
			\$1,820.08
b2833	\$3,535,682.00	\$294,640.17	\$75.78%
			223,278.32
b2777	\$4,182,338.00	\$348,528.17	\$100.00%
			\$348,528.17
b2668	\$342,416.00	\$28,534.67	\$98.19%
			28,018.19
b2776	\$2,051,248.00	\$170,937.33	\$98.19%
			\$167,843.36
b3775.10_rel	\$81.27	\$6.77	\$100.00%
			6.77
b3775.10_mkt	\$90.73	\$7.56	\$24.07%
			\$1.82
b3775.6_rel	\$15.12	\$1.26	\$12.38%
			0.16
b3775.6_mkt	\$16.88	\$1.41	\$24.07%
			\$0.34
b3775.7_rel	\$ 8	\$0.67	\$12.38%
			\$0.08

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b3775.7_mkt	\$	9	\$0.75	\$24.07%
				\$0.18
b1034.4	\$	790,849	\$65,904.08	96.01%
				\$63,274.51
b1034.5	\$	2,827,087	\$235,590.58	96.01%
				\$226,190.52
TOTAL	\$	201,389,546	\$16,782,462.22	1105353046.00%

Transmission
 Upgrade

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (June 2023 - May 2024)	AEP
b0265	\$440,819.00	\$36,734.92	0.00%
b0276	\$676,180.00	\$56,348.33	0.00%
b0211	\$1,149,032.00	\$95,752.67	\$—
b0210.A	\$1,146,321.00	\$95,526.75	\$0.14
			\$13,650.77
b0210.A_dfax	\$1,146,321.00	\$95,526.75	\$—
b0210.B	\$1,634,738.00	\$136,228.17	\$—
b1398.5	\$421,928.00	\$35,160.67	0
b1398.3.1	1311984	\$109,332.00	0.00%
b1600	\$1,565,790.00	\$130,482.50	0.00%
b0210.1	\$1,388,128.00	\$115,677.33	

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—%
b0212	\$5,959.00	\$496.58	
			\$—%
TOTAL	\$10,887,200.00	\$907,266.67	\$13,650.77

Transmission

PJM	Annual	Monthly
Upgrade	Revenue	Revenue

ID	Requirement	Requirement (June 2023 - May 2024)	AEP
b0241.3	1383804	\$115,317.00	0
b0272.1	10686.5	\$890.54	0.1429
			12726.00%
b0272.1_dfax	\$10,686.50	\$890.54	
			\$—%
b0751	\$248,190.50	\$20,682.54	0.14
			\$295,553.00%
b0751_dfax	\$248,190.50	\$20,682.54	
			\$—
b0733	\$1,063,754.00	\$88,646.17	
			\$—
b1247	\$717,913.00	\$59,826.08	
			\$—
b2633.10	\$670,245.00	\$55,853.75	
			\$—
TOTAL	\$4,353,470.00	\$362,789.16	3082.79

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (June 2023- May 2024)	AEP
b0367.1-2	\$ 2,375,597.00	\$197,966.42	\$—
b0512.7	\$112,953	\$9,412.75	\$0.14 \$1,345.08
b0512.7_dfax	\$112,953.00	\$9,412.75	\$—
b0512.8	\$112,953.00	\$9,412.75	0.14 \$1,345.08
b0512.8_dfax	\$112,953.00	\$9,412.75	\$—%
b0512.9	\$ 112,953.00	\$9,412.75	\$0.14 \$134,508.00%
b0512.9_dfax	\$112,953.00	\$9,412.75	\$—%
b0512.12	\$114,194.00	\$9,516.17	\$0.14 \$135,986.00%
b0512.12_dfax	\$114,194.00	\$9,516.17	\$—%
b0478	\$1,938,326.00	\$161,527.17	\$—%
b0499	\$3,607,258.00	\$300,604.83	\$—%
b0526	\$6,798,666.00	\$566,555.50	\$—%
b0701.1	\$606,617.00	\$50,551.42	\$—%
b0496	\$2,398,772.00	\$199,897.67	\$—%
b0288	\$3,702,255.00	\$308,521.25	\$—%

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b1125	\$6,463,691.00	\$538,640.92	\$—%
b2008	\$1,087,811.00	\$90,650.92	\$—%
b0467.1	\$1,010,995.00	\$84,249.58	\$—%
b1126	\$4,816,536.00	\$401,378.00	0.00%
b1596	\$1,170,458	\$97,538.17	0.00%
TOTAL	\$36,883,088	\$3,073,590.69	\$5,395.11

Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (June 2023- May 2024)	AEP
b0501-b0503	\$26,393,523.00	\$2,199,460.25	\$—%
b1022.2	\$488,027.00	\$40,668.92	\$—%
b3015.2	\$938,900.00	\$78,241.67	\$—%
b3012.2	\$968,709.00	\$80,725.75	\$—%
b1969	\$1,710,884.00	\$142,573.67	\$—%
b2689.1-2	\$1,173,756.00	\$97,813.00	\$—%
TOTAL	\$31,673,799.00	\$2,639,483.26	\$—

Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (June 2023 - May 2024)	AEP
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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

b2141	\$27,169,277.00	\$2,264,106.42	0.04
			\$93,507.60
b2728	\$1,278,708.00	\$106,559.00	\$0.03
			\$3,559.07
b2692.1-b2692.2	\$1,307,365.00	\$108,947.08	0.19
			\$20,351.31
TOTAL	\$29,755,350.00	\$2,479,612.50	\$117,417.98

Transmission

PJM	Annual	Monthly	
Upgrade	Revenue	Revenue	
ID	Requirement	Requirement	AEP
		(Jan - Dec 2024)	
b0174	\$ 1,483,418.96	\$123,618.25	\$—%
b0268	\$ 730,333.66	\$60,861.14	\$—%
b0726	\$925,744.54	\$77,145.38	\$—%
b2015	\$22,378,147.68	\$1,864,845.64	\$—%
TOTAL	\$ 25,517,644.84	\$2,126,470.41	\$—

Transmission

PJM	Annual	Monthly	
Upgrade	Revenue	Revenue	
ID	Requirement	Requirement	AEP
		(Jan - Dec 2024)	
b0215	\$ 1,300,014.72	\$108,334.56	\$—%
b0549	\$ 175,333.92	\$14,611.16	\$0.14
			\$2,087.93
b0549_dfax	\$ 175,333.92	\$14,611.16	

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—%
b0551	\$141,317.12	\$11,776.43	
			\$—%
b0552	\$115,901.41	\$9,658.45	
			0.00%
b0553	\$101,431.01	\$8,452.58	
			0.00%
b0557	\$237,646.09	\$19,803.84	
			0.00%
b1993	\$ 1,212,924.62	\$101,077.05	
			\$—%
b1994	\$ 3,276,424.01	\$273,035.33	
			\$—%
b2006.1.1	\$ 217,156.18	\$18,096.35	\$0.14
			\$2,585.97
b2006.1.1_dfax	\$ (156,439.00)	\$(13,036.58)	
			\$—%
b2452	\$ 1,249,466.36	\$104,122.20	
			\$—%
b2452.1	\$ 290,669.79	\$24,222.48	
			\$—%
b2743.2	\$ 46,002.51	\$3,833.54	6 %
			\$247.65
b2743.3	\$ (48,607.83)	\$(4,050.65)	6 %
			\$(261.67)
b2743.4	\$9,182.37	\$765.20	\$0.06
			\$49.43
b0132.3	\$(5,176.95)	\$(431.41)	
			0.00%
b1364	\$(2,967.31)	\$(247.28)	
			0.00%
b1362	\$(2,937.38)	\$(244.78)	
			0.00%
b1816.4	\$ (6,066.70)	\$(505.56)	
			\$—%
b2688.1	\$764,854.36	\$63,737.86	\$0.13
			\$8,228.56
b0284.3	\$—	\$—	\$0.14

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet
 \$—

b0284.3_dfax	0	\$—	0
b0369	0	\$—	0.1429
b0369_dfax	\$—	\$—	0
			\$—%
b2552.1	\$26,433,259.06	\$2,202,771.59	\$—%
b3311	\$13,424.36	\$1,118.70	0.00%
b2006.2.1	\$(9,052,275.19)	\$(754,356.27)	0.00%
b3145	\$127,788.66	\$10,649.05	\$0.17
b2752.4	\$ —	\$—	176774.00%
			0.06
			\$—%
TOTAL	\$ 26,613,660.10	\$2,217,805.00	\$14,706

Transmission PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (2024)	AEP
b0269	2533900.5	\$211,158.38	0.1429
b0269_dfax	2533900.5	\$211,158.38	30174.53
			0.00
b0269.10	2048700	\$170,725.00	\$—%
b1591	\$465,454.00	\$38,787.83	

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			\$—
b0269.6	\$227,346.00	\$18,945.50	\$0.14
			\$2,707.31
b0269.6_dfax	227346	\$18,945.50	0
b0171.1	306262	\$25,521.83	0.1429
			3647.07
b0171.1_dfax	306262	\$25,521.83	
			0.00%
b1590.1-b1590.2	2177977	\$181,498.08	
			\$—
b1900	\$5,186,215.00	\$432,184.58	
			\$—
b0727	2581733	\$215,144.42	
			\$—
b2140	\$2,474,149.00	\$206,179.08	
			\$—
b1182	2571125	\$214,260.42	
			0.00%
b1717	\$1,642,377.00	\$136,864.75	
			0.00%
b1178	\$1,185,175.00	\$98,764.58	
			\$—
b0790	\$251,571.00	\$20,964.25	
			\$—
b0506	\$312,192.00	\$26,016.00	
			\$—
b0505	351260	\$29,271.67	
			0
b0789	344612	\$28,717.67	

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			0
b0206	\$478,704.00	\$39,892.00	\$—
b0207	\$643,444.00	\$53,620.33	\$—
b0209	\$364,036.00	\$30,336.33	
			0.00
b0264	299927	\$24,993.92	0.00
b0357	284473	\$23,706.08	0.00
b1398.8	\$265,301.00	\$22,108.42	0.00
b0287	\$435,085.00	\$36,257.08	\$14.29%
b0287_dfax	\$435,085.00	\$36,257.08	5181.14
b0208	\$655,894.00	\$54,657.83	0.00
b2694	\$2,643,262.00	\$220,271.83	\$0.06
b2766.2	\$94,898.00	\$7,908.17	\$12,709.68
			\$0.14
			1130.08
b2766.2_dfax	94898	\$7,908.17	0.00
TOTAL	34422564	\$2,868,546.99	\$55,549.81

Transmission

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement	AEP
		(Jan - Dec 2024)	
b1587	1677460.9	\$139,788.41	0.00
b1920	2392970.88	\$199,414.24	0.00
b1977	\$3,905,985.08	\$325,498.76	0.00
b1959	\$17,139,372.60	\$1,428,281.05	\$—
b2972	\$333,747.70	\$27,812.31	\$5.38% 1,496.30
b2124.4	\$3,959,233.87	\$329,936.16	\$—
b2124.1	\$850,481.41	\$70,873.45	\$—
b2124.2	\$1,972,487.75	\$164,373.98	\$—
b2435	\$8,629,075.89	\$719,089.66	\$—
TOTAL	\$40,860,816.08	\$3,405,068.02	\$1,496.30

Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement	AEP
		(Jan - Dec 2024)	
b2609.4	\$9,367,951.00	\$780,662.58	100.00% \$780,662.58
TOTAL	\$9,367,951.00	\$780,662.58	\$780,662.58

Transmission

PJM Upgrade	Annual Revenue	Monthly Revenue
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240610029

Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

ID	Requirement	Requirement (Jan - Dec 2024)	AEP
b2743.5	\$1,721,809.00	\$143,484.08	6.46%
b2752.5			\$9,269.07
TOTAL	\$1,721,809.00	\$143,484.08	\$9,269.07

Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (Jan - Dec 2024)	AEP
b2743.5	\$7,760,474.00	\$646,706.17	6 %
b2743.1.			41777.22
b2752.5			
b2752.1			
b3737.47	553311.00	46109.25	
			0.00
TOTAL	8313785.00	692815.42 \$	41,777.22

Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (Jan - Dec 2024)	AEP
b2633.1-b2633.2	25793147.00	2149428.92	
			0.00
TOTAL	25793147.00	2149428.92	0.00

Transmission

PJM Upgrade ID	Annual Revenue Requirement	Monthly Revenue Requirement (Feb - Dec 2024)	AEP
b2971	825419.00	68784.92	0.17
			11452.69
b2973	796147.00	66345.58	0.26

17263.12

213.55

0.05

2195.38

0.00

0.00

0.14

b0577	42411.09	3534.26	0.14
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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

			505.05
b0577_dfax	42411.09	3534.26	0.00
b2609.5	-74765.90	-6230.49	1.00
			-6230.49
b0238	433989.96	36165.83	0.00
b0373	254933.82	21244.49	0.00
b1507.2	8012.23	667.69	0.14
			95.41
b1507.2_dfax	8012.23	667.69	0.00
b1507.3	1082856.62	90238.05	0.14
			12895.02
b1507.3_dfax	1082856.62	90238.05	0.00
b2688.3	65476.36	5456.36	0.13
			704.42
b0347.17-32	202193.35	16849.45	0.14
			2407.79
32_dfax	202193.35	16849.45	0.00
b1835	1517.51	126.46	0.00
b1022.11	54475.33	4539.61	0.00
b1022.5	74997.41	6249.78	0.00
b3006	14138867.41	1178238.95	0.00
b3011.2	121925.07	10160.42	0.00
b3011.5	134865.77	11238.81	0.00
b2965	1358939.80	113244.98	0.00
			0.00
TOTAL	##### \$	1,603,014.10 \$	10,377.19

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Transmission Enhancement Charges (PJM OATT Schedule 12) Settlement Worksheet

		Monthly AEP Responsibility	Annual AEP Responsibility
		\$ 16,655,354.88	\$ 199,864,262.04
AEP LSE Share			84.484%
APCO's Average 12CP Percentage			27.889%
Annual	APCO's Share of RTEP Expenses (APCo RTEP)	\$	47,091,226.34
Monthly	APCO RTEP	\$	3,924,268.86

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Derivation of PJM Administrative Charges
Rate Year Beginning October 1, 2024

APCO Exhibit No. _____
Witness MMH
Schedule 40
a(1) Statement PJM Admin
Page 1 of 1

Year	2024/2025
Bus Unit	215

Protected Amount	10	11	12	1	2	3	4	5	6	7	8	9	Grand Total	
5614001	\$ 445,450	\$ 485,960	\$ 589,308	\$ 852,574	\$ 561,757	\$ 579,558	\$ 444,084	\$ 449,004	\$ 481,202	\$ 534,987	\$ 525,610	\$ 457,749	\$ 9,155,128	(A)
5618001	\$ 148,111	\$ 158,333	\$ 192,000	\$ 212,595	\$ 183,024	\$ 172,333	\$ 144,685	\$ 145,982	\$ 150,778	\$ 174,305	\$ 171,214	\$ 149,130	\$ 2,030,679	(B)
Grand Total	\$ 594,570	\$ 644,315	\$ 781,308	\$ 1,065,121	\$ 744,781	\$ 752,091	\$ 588,769	\$ 595,068	\$ 637,980	\$ 709,292	\$ 696,724	\$ 606,882	\$ 11,185,807	

Notes

- (A) PJM Administrative Service Fees for Scheduling, System Control and Dispatching Services (5614001)
(B) PJM Administrative Service Fees for Reliability Planning and Standards Development Services (5618001)
PJM Administrative Service Fees for Market Administration, Monitoring and Compliance Services- NOT INCLUDED PER ORDER IN CASE NO. 2009-00031 (6757001)

APPALACHIAN POWER COMPANY - VIRGINIA
 Subsection A-4 Costs
 Subsection A-4 Costs- Update Calculation
 For the Period
 Beginning April 2024 through September 2024

APCO Exhibit No.
 Witness Affidavit
 Schedule 40
 a(1) Statement 8 - Update Period
 Page 1 of 1

Line No.	Item Description	Notes	April	May	June	July	August	September	Total
1(A)	NTS Rate \$/MWh - Day		\$ 342.80	\$ 342.80	\$ 342.80	\$ 342.80	\$ 342.80	\$ 342.80	
2(A)	AEP East LSE 1 NSPL		\$ 19,332.3	\$ 19,332.3	\$ 19,332.3	\$ 19,332.3	\$ 19,332.3	\$ 19,332.3	
3(A)	Number of Days - Month		30	31	30	31	31	30	
4(A)	AEP's PJM NTS Charge (Line 1(A) * 2(A) * 3(A))		\$ 188,818,214	\$ 206,443,421	\$ 188,818,214	\$ 206,443,421	\$ 206,443,421	\$ 188,818,214	\$ 1,212,778,904
6(A)	APCO's Actual 12CP Percentage		27.889%	27.889%	27.889%	27.889%	27.889%	27.889%	
6(B)	Open Access Distribution Outcomes +1 CP MW contribution * Line 1 * Line 3	1 CP MW contribution 51.5	\$ (323,861)	\$ (324,749)	\$ (323,861)	\$ (324,749)	\$ (324,749)	\$ (323,861)	
8(A)	Appalachian Virginia Retail Jurisdiction		52.72%	52.72%	52.72%	52.72%	52.72%	52.72%	
7(A)	APCO's Va Jurisdictional NTS Charge (Line 4(A) * 5(A) * 6(A) * 8(B))		\$ 28,908,197	\$ 29,871,711	\$ 28,908,197	\$ 29,871,711	\$ 29,871,711	\$ 28,908,197	\$ 178,338,694
Subsection A4 Costs -PJM Transmission Credits									
8(A)	PJM Point to Point Transmission Service Credits		\$ (382,750)	\$ (407,006)	\$ (732,843)	\$ (1,408,087)	\$ (890,200)	\$ (472,802)	\$ (4,129,838)
9(A)	Appalachian Virginia Retail Jurisdiction		52.72%	52.72%	52.72%	52.72%	52.72%	52.72%	
10(A)	APCO's Va Jurisdictional PJM Transmission Credits (Line 8(A) * 9(A))		\$ (205,481)	\$ (282,844)	\$ (288,356)	\$ (741,289)	\$ (232,209)	\$ (248,283)	\$ (2,177,251)
Subsection A4 Costs -1A Rates									
11(A)	Schedule 1A Rate \$/MWh		\$ 0.0583	\$ 0.0583	\$ 0.0583	\$ 0.0583	\$ 0.0583	\$ 0.0583	
12(A)	AEP-East Energy Sales		8,413,309	8,847,608	9,302,874	10,484,005	10,460,305	9,064,001	
13(A)	AEP's PJM Schedule 1A Charge (Line 11(A) * 12(A))		\$ 490,841	\$ 504,810	\$ 542,733	\$ 610,478	\$ 610,259	\$ 530,003	\$ 3,289,424
14(A)	APCO's Forecasted Energy Sales %		23.003%	23.171%	23.171%	23.723%	23.818%	23.481%	
15(A)	Appalachian Virginia Retail Jurisdiction		51.83%	51.83%	51.83%	51.83%	51.83%	51.83%	
16(A)	APCO's Va Jurisdictional 1A Charge (Line 13(A) * 14(A) * 15(A))		\$ 69,792	\$ 65,890	\$ 65,178	\$ 78,092	\$ 74,702	\$ 64,878	\$ 299,900
Subsection A4 Costs -Schedule 12 R-TEP Costs									
17(A)	Levelized APCO RTEP Costs		\$ 3,924,269	\$ 3,824,269	\$ 3,924,269	\$ 3,924,269	\$ 3,924,269	\$ 3,924,269	\$ 23,645,613
	Transmission Enhancement Charge Adjustment (FERC EIS-121-008)		\$ (258,646)	\$ (258,646)	\$ (258,646)	\$ (258,646)	\$ (258,646)	\$ (258,646)	\$ (1,651,874)
18(A)	Appalachian Virginia Retail Jurisdiction		52.72%	52.72%	52.72%	52.72%	52.72%	52.72%	
19(A)	APCO's Va Jurisdictional RTEP Charges (Line 17(A) * 18(A))		\$ 1,832,617	\$ 1,832,617	\$ 1,832,617	\$ 1,832,617	\$ 1,832,617	\$ 1,832,617	\$ 11,886,089
Subsection A4 Costs -PJM Admin Costs									
20(A)	APCO PJM Admin Costs		\$ 575,017	\$ 581,914	\$ 621,809	\$ 694,457	\$ 683,755	\$ 592,503	\$ 3,740,515
21(A)	Appalachian Virginia Retail Jurisdiction		48.00%	48.00%	48.00%	48.00%	48.00%	48.00%	
22(A)	APCO Va Jurisdictional PJM Admin Costs (Line 20(A) * 21(A))		\$ 276,009	\$ 279,319	\$ 298,488	\$ 333,338	\$ 328,202	\$ 284,430	\$ 1,769,787
23(A)	APCO's Va Jurisdictional T-RAC Expenses (Line 7(A) + 10(A) + 18(A) + 22(A))		\$ 30,970,943	\$ 31,881,582	\$ 30,817,918	\$ 31,471,340	\$ 31,674,843	\$ 30,940,237	\$ 187,868,970
24(A)	APCO's Va Jurisdictional T-RAC Revenue Recovery (Using triennial billing determinants)		\$ 31,814,189	\$ 28,777,790	\$ 28,844,354	\$ 30,890,514	\$ 33,477,308	\$ 32,683,396	\$ 187,387,800
25(A)	APCO's Va Jurisdictional Under (Over) Recovery Position (Line 23(A) - 24(A))		\$ (843,245)	\$ 3,103,802	\$ 1,173,602	\$ 480,826	\$ (1,602,615)	\$ (1,653,059)	\$ 69,182

APPALACHIAN POWER COMPANY - VIRGINIA
Subsection A-4 Costs
Estimate of Annual Transmission Revenues at Current Rates

APCO Exhibit No. _____
Witness CEN
Schedule 46
Section 1
Statement 6
Page 1 of 1

Using triennial billing determinants

Sum of Revenues	
Monthly Revenues	Total
January	\$ 52,979,854
February	\$ 44,830,991
March	\$ 34,961,186
April	\$ 31,914,188
May	\$ 28,777,790
June	\$ 29,644,354
July	\$ 30,990,514
August	\$ 33,477,358
September	\$ 32,593,396
October	\$ 28,211,683
November	\$ 30,012,532
December	\$ 41,622,291
Grand Total	\$ 420,016,137

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APPALACHIAN POWER COMPANY - WESTGATE
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Derivation of PJM Charges
Rate Year Beginning October 1, 2024

APCO Exhibit No. _____
Revision Number _____
Schedule No. _____
a(7) Worksheet PJM Charges
Page 1 of 1

Line No.	Item Description	Notes	October	November	December	January	February	March	April	May	June	July	August	September	Total
1	WTR Rate \$/MWh - Day	(A)	\$ 342.80	\$ 342.80	\$ 342.80	\$ 353.85	\$ 353.85	\$ 353.85	\$ 353.85	\$ 353.85	\$ 353.85	\$ 353.85	\$ 353.85	\$ 353.85	\$ 353.85
2	ACP Rate LBS 1 MWh	(B)	\$ 18,332.2	\$ 18,332.2	\$ 18,332.2	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7	\$ 18,086.7
3	Number of Days - Month		31	30	31	31	28	31	30	31	30	31	31	30	
4	ACP's PJM WTR Charge (Line 1 * 3)		\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 295,412,431	\$ 2,954,124,310
5	APCO's 12CP Percentage	(C)	27.889%	27.889%	27.889%	28.839%	28.839%	28.839%	28.839%	28.839%	28.839%	28.839%	28.839%	28.839%	28.839%
6	Open Access Distribution Customers 1 CP MW contribution		31.8	31.8	31.8	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
7	1 CP MW contribution - Line 1 * Line 5		\$ (334,748)	\$ (334,748)	\$ (334,748)	\$ (478,796)	\$ (478,796)	\$ (478,796)	\$ (478,796)	\$ (478,796)	\$ (478,796)	\$ (478,796)	\$ (478,796)	\$ (478,796)	\$ (4,787,960)
7	APCO's WTR Charge (Line 4 * 5) + Line 6		\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 25,067,797	\$ 250,677,970
			October	November	December	January	February	March	April	May	June	July	August	September	Total
8	APCO's Forecasted PJM Point-to-Point Transmission Service Credits	(D)	\$ (948,131)	\$ (948,131)	\$ (948,131)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (17,322,215)
9	APCO's APGD Forecasted PJM Point-to-Point Transmission Service Credits (Line 8)		\$ (948,131)	\$ (948,131)	\$ (948,131)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (1,732,215)	\$ (17,322,215)
			October	November	December	January	February	March	April	May	June	July	August	September	Total
10	Schedule 1A Rate \$/MWh	(A)	\$ 0.0563	\$ 0.0563	\$ 0.0563	\$ 0.0438	\$ 0.0438	\$ 0.0438	\$ 0.0438	\$ 0.0438	\$ 0.0438	\$ 0.0438	\$ 0.0438	\$ 0.0438	\$ 0.0438
11	ACP-forecasted APGD Load - Energy Sales	(E)	\$ 8,238,780	\$ 8,445,627	\$ 16,816,878	\$ 11,833,318	\$ 10,274,619	\$ 10,138,752	\$ 9,991,218	\$ 9,040,784	\$ 8,771,188	\$ 11,034,728	\$ 11,034,852	\$ 9,788,808	\$ 120,988,882
12	ACP's PJM Schedule 1A Charge (Line 10 * 11)		\$ 466,880	\$ 478,796	\$ 948,131	\$ 512,416	\$ 448,147	\$ 438,888	\$ 438,888	\$ 398,888	\$ 388,888	\$ 478,796	\$ 478,796	\$ 418,888	\$ 5,107,943
13	APCO's Forecasted Energy Sales %		23.841%	24.841%	28.722%	28.472%	25.894%	25.833%	23.502%	21.171%	21.171%	23.190%	22.148%	21.847%	
14	APCO's PJM Schedule 1A Charge (Line 12 * 13)		\$ 128,899	\$ 135,896	\$ 268,899	\$ 148,899	\$ 128,899	\$ 118,899	\$ 108,899	\$ 98,899	\$ 98,899	\$ 128,899	\$ 128,899	\$ 111,899	\$ 1,421,899

Notes:
(A) Based on rates effective January 1, 2024, per ACP Transmission Service Rates
(B) October - December = ACP LSE Actual 2024 Network Service Peak Load (NSPL)
(C) Average of APGD's 12 scheduled peaks (12CP) through 10/31 of prior year
(D) Forecasted PJM Point-to-Point Transmission Service Credits
(E) Forecasted Energy Sales for ACP-Excluded Zone LBS

24061629

APPALACHIAN POWER COMPANY - VA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Projected T-RAC Costs
Rate Year-2028
In Millions

APOO Exhibit No. _____
Witness MWH
Schedule #6
a(1) Statement of Proj. Cost
Page 1 of 1

Line	Rate Year		2025		2026		2027		2028	
	Estimated Total Company	Estimated Virginia Jurisdiction	Estimated Total Company	Estimated Virginia Jurisdiction	Estimated Total Company	Estimated Virginia Jurisdiction	Estimated Total Company	Estimated Virginia Jurisdiction	Estimated Total Company	Estimated Virginia Jurisdiction
1 Network Integration Transmission Service (NITS) Charges	\$ 636.86 \$	347.43 \$	635.14 \$	343.39 \$	762.30 \$	376.79 \$	723.77 \$	391.37 \$	794.82 \$	402.78
2 Point to Point Transmission Service Credits	\$ (16.31) \$	(5.44) \$	(16.31) \$	(5.44) \$	(19.31) \$	(5.44) \$	(16.31) \$	(5.44) \$	(16.31) \$	(5.44)
3 Ancillary Service Schedule SA Charges	\$ 1.42 \$	0.74 \$	1.32 \$	0.69 \$	1.04 \$	0.54 \$	1.49 \$	0.73 \$	1.49 \$	0.73
4 Total of RUM Transmission (Displacement) Charges	\$ 42.89 \$	23.19 \$	37.29 \$	19.84 \$	17.08 \$	18.66 \$	38.89 \$	18.49 \$	37.29 \$	19.84
5 Other Administrative Charges (Items 6 - 11)	\$ 6.17 \$	3.02 \$	6.21 \$	3.34 \$	6.28 \$	3.97 \$	6.33 \$	4.01 \$	6.47 \$	4.02
6 Demand Response Program Cost Recovery	\$ -- \$	-- \$	-- \$	-- \$	-- \$	-- \$	-- \$	-- \$	-- \$	--
7 Total T-RAC Current Revenue Requirement (Lines 1 + 2 + 3 + 4 + 5 + 6)	\$ 702.27 \$	389.96 \$	691.65 \$	364.72 \$	739.89 \$	399.71 \$	705.17 \$	406.53 \$	805.86 \$	421.79
8 Rate Year Step-Up Period	\$	7.12								
9 Rate Year Up-Cost Period	\$	6.58								
Total Rate Year Revenue Requirement (7 + 8 + 9)	\$	13.70								

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
COST OF SERVICE - ITEMIZATION
Calendar Year 2025

APCO Exhibit No. _____
Witness Marked
Schedule 48
Forecasted 2025
Page 1 of 1

	(A)	(B)	(C)	(D)	(E)	(B) * (C)
Calendar Year 01/01/2025 - 12/31/2025						
Line No.	Description	APCO's Transmission Expense*	VA Juris. %	Allocator Description	VA's Transmission Expense	APCO Total Transmission Expense* Item Location
1	Network Integration Transmission Service (NITS) Charges	\$ 856,143,282	62.72%	Demand	\$ 346,381,628	Schedule 48, Section 1, Statement 3; Page 1 of 1; Line 7
2	Point to Point Transmission Service Credits	\$ (10,314,040)	62.72%	Demand	\$ (6,437,662)	Schedule 48, Section 1, Statement 3; Page 1 of 1; Line 8
3	Ancillary Service Schedule 1A Charges (Transmission Owner Scheduling, System Control and Load Dispatching)	\$ 1,325,115	61.83%	Energy	\$ 688,807	Schedule 48, Section 3; Statement 3; Page 1 of 1; Line 14
4	PJM Transmission Enhancement Charges (Schedule 12)					
5	Schedule 12 RTEP Projects	\$ 40,362,558	62.72%	Demand	\$ 21,279,141	Schedule 48, Section 1, Statement 4; Page 22 of 22; APCo RTEP
	Transmission Enhancement Charge Adjustment (FERC EL05-121-008)	\$ (3,103,747)	62.72%	Demand	\$ (1,836,286)	
6	Total of PJM Transmission Enhancement Charges	\$ 37,258,811			\$ 19,442,845	
7	PJM Administrative Charges*					
8	PJM Admin - SGO & OS - Internal	\$ 8,192,187	48.00%	Demand	\$ 2,972,250	Schedule 48, Section 1, Statement 5; Page 1 of 1; 5014001 (A)
9	PJM Admin - RPI & SCS - Internal	\$ 2,017,450	48.00%	Demand	\$ 968,370	Schedule 48, Section 1, Statement 5; Page 1 of 1; 5014001 (B)
10	PJM Admin - MAM & SC - Internal	\$ —	48.00%	Demand	\$ —	Not Applicable
11	PJM Admin - Defaults LSE	\$ —	48.00%	Demand	\$ —	Not Applicable
12	PJM Administrative Charges (Line 8 - 11)	\$ 8,209,638			\$ 3,940,628	
13	Demand Response Program Cost Recovery	\$ —	52.72%	Demand	\$ —	
14	Total T-RAC Revenue Requirement (Line 1 + 2 + 3 + 6 + 12 + 13)	\$ 891,822,784			\$ 364,224,244	

Notes

- * 12 Month Demand & Energy Study of Transmission- Excludes Kingsport and FERC Customers (December)
- * 12 Month Demand and Energy Study - Includes Kingsport and FERC Customers (December)

Cost of Service

RTEP Projects

PJM Admin. Costs

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
COST OF SERVICE - ITEMIZATION
Calendar Year 2026

APOC Exhibit No. _____
Witness MMH/VGEN
Schedule 48
Forecasted 2026
Page 1 of 1

(A)	(B)	(C)	(D)	(E)	
				(B) * (C)	
Calendar Year 01/01/2026 - 12/31/2026					
Line No.	Description	APCO's Transmission Expenses	VA's Juris. %	Allocator Destination	VA's Transmission Expenses
1	Network Integration Transmission Service (NITS) Charges	\$ 703,362,764	52.72%	Demand	\$ 370,781,217
2	Point to Point Transmission Service Credits	\$ (10,314,840)	52.72%	Demand	\$ (5,437,563)
3	Andillary Service Schedule 1A Charges (Transmission Owner Scheduling, System Control and Load Dispatching)	\$ 1,044,029	51.83%	Energy	\$ 541,120
4	PJM Transmission Enhancement Charges (Schedule 12)				
	Schedule 12 RTEP Projects	\$ 37,677,497	52.72%	Demand	\$ 19,853,576
	Transmission Enhancement Charge Adjustment (FERC ELOS-121-006)	\$ —	52.72%	Demand	\$ —
6	Total of PJM Transmission Enhancement Charges	\$ 37,677,497			\$ 19,853,576
7	PJM Administrative Charges*				
8	PJM Admin - SSC & DS - Internal	\$ 6,245,986	48.00%	Demand	\$ 2,996,073
9	PJM Admin - RP & GDS - Internal	\$ 2,034,978	48.00%	Demand	\$ 976,789
10	PJM Admin - MAM & SG - Internal	\$ —	48.00%	Demand	\$ —
11	PJM Admin - Defaults LSC	\$ —	48.00%	Demand	\$ —
12	PJM Administrative Charges (Line 8 - 11)	\$ 8,280,964			\$ 3,972,863
13	Demand Response Program Cost Recovery	\$ —	52.72%	Demand	\$ —
14	Total T-RAC Revenue Requirement (Line 1 + 2 + 3 + 6 + 12 + 13)	\$ 735,091,213			\$ 389,723,214

Notes

- * 12 Month Demand & Energy Study of Transmission- Excludes Kingsport and FERC Customers (December)
* 12 Month Demand and Energy Study - Includes Kingsport and FERC Customers (December)

Cost of Service
RTEP
Projects
PJM Admin
Cost

240610029

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
COST OF SERVICE - ITEMIZATION
Calendar Year 2027

APCO Exhibit No. _____
Witness NAME: _____
Schedule 48
Forecasted 2027
Page 1 of 1

(A)		(B)	(C)	(D)	(E)	(F) * (C)	
Calendar Year 01/01/2027 - 12/31/2027							
Line No.	Description	APCO's Transmission Expenses	VA Juris. %	Allocation Description	VA's Transmission Expenses	APCo Total Transmission Expenses* from Location	
1	Network Integration Transmission Service (NITS) Charges	\$ 723,770,943	52.72%	Demand	\$ 381,672,041	Schedule 48, Section 1, Statement 3; Page 1 of 1; Line 7	
2	Point to Point Transmission Service Credits	\$ (10,314,040)	52.72%	Demand	\$ (6,437,662)	Schedule 48, Section 1, Statement 3; Page 1 of 1; Line 8	
3	Auxiliary Service Schedule 1A Charges (Transmission Owner Scheduling, System Control and Load Dispatching)	\$ 1,338,896	51.83%	Energy	\$ 725,048	Schedule 48, Section 3, Statement 3; Page 1 of 1; Line 14	
4	PJM Transmission Enhancement Charges (Schedule 12)						
5	Schedule 12 RTEP Projects	\$ 39,857,138	52.72%	Demand	\$ 19,483,803	Schedule 48, Section 1, Statement 4; Page 22 of 22; APCo RTEP	
	Transmission Enhancement Charge Adjustment (FERC ELO5-121-000)	\$ —	52.72%	Demand	\$ —		
6	Total of PJM Transmission Enhancement Charges	\$ 39,857,138			\$ 19,483,803		
7	PJM Administrative Charges*						
8	PJM Admin - SSC & DS - Internal	\$ 8,297,249	48.00%	Demand	\$ 3,022,879	Schedule 48, Section 1, Statement 5; Page 1 of 1; 5614001 (A)	
9	PJM Admin - RP & SDS - Internal	\$ 7,051,879	48.00%	Demand	\$ 984,806	Schedule 48, Section 1, Statement 5; Page 1 of 1; 5618001 (B)	
10	PJM Admin - MAM & SC - Internal	\$ —	48.00%	Demand	\$ —	Not Applicable	
11	PJM Admin - District LSE	\$ —	48.00%	Demand	\$ —	Not Applicable	
12	PJM Administrative Charges (Line 8 - 11)	\$ 8,348,928			\$ 4,007,438		
13	Demand Response Program Cost Recovery	\$ —	52.72%	Demand	\$ —		
14	Total T-RAC Revenue Requirement (Line 1 + 2 + 3 + 6 + 12 + 13)	\$ 760,181,865			\$ 400,350,818		

Notes

- 12 Month Demand & Energy Study of Transmission- Excludes Kingsport and FERC Customers (December)
--- 12 Month Demand and Energy Study - Includes Kingsport and FERC Customers (December)

Cost of Service

RTEP Projects

PJM Admin Cost

240610026

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
COST OF SERVICE - ITEMIZATION
Calendar Year 2028

APCO Exhibit No. _____
Witness MMH/CEN
Schedule 48
Forecasted 2028
Page 1 of 1

	(A)	(B)	(C)	(D)	(E)	
					(B) * (C)	
Calendar Year 01/01/2028 - 12/31/2028						
Line No.	Description	APCO's Transmission Expenses	VA Juris, %	Allocator Description	VA's Transmission Expenses	APCo Total Transmission Expenses* Item Location
1	Network Integration Transmission Service (NITS) Charges	\$ 794,016,997	62.72%	Demand	\$ 402,790,818	Schedule 48, Section 1, Statement 3; Page 1 of 1; Line 7
2	Point to Point Transmission Service Credits	\$ (10,314,040)	62.72%	Demand	\$ (5,437,562)	Schedule 48, Section 1, Statement 3; Page 1 of 1; Line 8
3	Auxiliary Service Schedule 1A Charges (Transmission Owner Scheduling, System Control and Load Dispatching)	\$ 1,402,228	61.63%	Energy	\$ 726,774	Schedule 48, Section 3, Statement 3; Page 1 of 1; Line 14
4	PJM Transmission Enhancement Charges (Schedule 12)					
5	Schedule 12 RTEP Projects	\$ 37,262,139	62.72%	Demand	\$ 19,844,600	Schedule 48, Section 1, Statement 4; Page 22 of 22; APCo RTEP
6	Transmission Enhancement Charge Adjustment (FERC ELD-121-008)	\$ —	62.72%	Demand	\$ —	
6	Total of PJM Transmission Enhancement Charges	\$ 37,262,139			\$ 19,844,600	
7	PJM Administrative Charges*					
8	PJM Admin - SSC & DS - Internal	\$ 6,391,707	48.00%	Demand	\$ 3,069,020	Schedule 48, Section 1, Statement 5; Page 1 of 1; 5614001 (A)
9	PJM Admin - RP & SDS - Internal	\$ 2,082,434	48.00%	Demand	\$ 999,578	Schedule 48, Section 1, Statement 5; Page 1 of 1; 5616001 (B)
10	PJM Admin - NRAM & GC - Internal	\$ —	48.00%	Demand	\$ —	Not Applicable
11	PJM Admin - Delsub LSE	\$ —	48.00%	Demand	\$ —	Not Applicable
12	PJM Administrative Charges (Line 8 - 11)	\$ 8,474,142			\$ 4,067,598	
13	Demand Response Program Cost Recovery	\$ —	62.72%	Demand	\$ —	
14	Total T-RAC Revenue Requirement (Line 1 + 2 + 3 + 6 + 12 + 13)	\$ 800,843,484			\$ 421,722,226	

Notes

12 Month Demand & Energy Study of Transmission-Excludes Kingsport and FERC Customers (December)
12 Month Demand and Energy Study - Includes Kingsport and FERC Customers (December)

Cost of Service

RTEP Projects

PJM Admin Cost

Annual Revenue Requirement Summary
APCo Virginia Retail Jurisdiction

240610029

Going level OATT revenue requirement	\$ 369,835,355
Under recovery to be recovered over 12 months	\$ 7,693,977
Pilot Program Distribution	\$ 2,587,200
Total T-RAC Revenue Requirement	\$ 380,116,532

Revenue Requirements				
<u>Under-recovery</u>	<u>Total</u>	<u>Demand</u>	<u>Energy</u>	
T-RAC Prior Period True-up as of March 2024	\$ 7,134,607	\$ 7,190,970	\$ (56,363)	
Update Period April 2024 - September 2024	\$ 559,370	\$ 558,246	\$ 1,124	
Total under-recovery	\$ 7,693,977	\$ 7,749,216	\$ (55,239)	
<u>Going level OATT revenue requirement</u>	\$ 369,835,355	\$ 369,098,370	\$ 736,985	
Pilot Program	\$ 2,587,200	\$ 2,587,200	\$ -	
<u>Totals</u>	\$ 380,116,532	\$ 379,434,786	\$ 681,746	

240610029

Add address to our Company
 EIR Add Program Project to our Company Organization
 O'Donnell Plant
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Appalachian Power Company
Transmission RAC (T-RAC)
Schedule 46
CAPITAL STRUCTURE AND COST OF CAPITAL
AS OF DECEMBER 31, 2023

	<u>Amount Outstanding</u>	<u>Percent</u>	<u>Cost Rate</u>	<u>Weighted Return Component</u>
		<u>%</u>	<u>%</u>	<u>%</u>
Long-term Debt	\$ 5,378,408,046	49.167%	4.898	2.408
Short-term Debt	\$ 283,834,948	2.595%	5.816	0.151
Total Debt	\$ 5,662,242,994			2.559
			-	
Common Stock	\$ 5,276,801,715	48.238%	9.500	4.583
Investment Tax Credit	\$ -	0.000%	7.177	-
Total	\$ 10,939,044,709	100.00%		
Overall Cost of Capital				<u>7.142</u>

NOTES:

Capital structure used to determine cost rate for Accumulated DITC;

	<u>Amount Outstanding</u>	<u>Percent</u>	<u>Cost Rate</u>	<u>Weighted Return Component</u>
		<u>%</u>	<u>%</u>	<u>%</u>
Long-term Debt	5,378,408,046	50.477%	4.898	2.472
Common Equity	5,276,801,715	49.523%	9.500	4.705
Total	10,655,209,761	100.00%		
Overall Cost of Capital				<u>7.177</u>

APCO Exhibit No. _____
Witness CEN
Schedule 48
a3 Statement 2 RY Rev by Class
Page 1 of 2

		Virginia Jurisdictional Allocation	RESIDENTIAL SERVICE SMALL GENERAL SERVICE GENERAL SERVICE MEDIUM GENERAL SERVICE LARGE POWER SERVICE											
					RS SEC		SOS		GS		MOS		LPs	
Line No.	Cost of Service	\$1	Allocator	(1) Amount	(2)		(3)		(4)		(5)		(6)	
1	OATT													
	Energy Related	681,746	ENER	\$ 681,746	\$ 314,425	\$ 30,478	\$ 130,011	\$ -	\$ 201,827					
2	Demand Related	378,847,589	DEM	\$ 378,847,589	\$ 226,604,136	\$ 18,885,432	\$ 61,082,707	\$ -	\$ 70,039,659					
	Total OATT Transmission Expense	377,529,332		377,529,332	226,618,563	17,015,910	61,212,718	-	70,241,518					
3	Pilot Projects													
	Energy Related	-	ENER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					
4	Demand Related	2,587,200	DEM	\$ 2,587,200	\$ 1,555,723	\$ 118,611	\$ 419,358	\$ -	\$ 480,849					
	Total Pilot Project Expense	2,587,200		2,587,200	1,555,723	118,611	419,358	-	480,849					
5	Total T-RAC Cost of Service (Line 1-2)	380,116,532		380,116,532	228,174,288	17,132,521	61,632,074	-	70,722,364					
	Rate Year Demand-Related Charges	379,434,788		\$ 379,434,788	\$ 228,159,861	\$ 17,102,043	\$ 61,502,063	\$ -	\$ 70,520,538					
	Rate Year Energy-Related Charges	681,748		\$ 681,748	\$ 314,425	\$ 30,478	\$ 130,011	\$ -	\$ 201,827					

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2023-00091
Schedule 4B
Allocation of Revenue Requirement to Customer Classes

APCO Exhibit No. _____
Witness CEN
Schedule 4B
a3 Statement 2 RY Rev by Class
Page 2 of 2

240610029

Line No.	Description of Service	SANCTUARY WORKSHOP SERVICE		OUTDOOR LIGHTING SERVICE	
		SWS		OL	
		Sec		Sec	
		(7)		(8)	
	OATT				
1	Energy Related	\$	1,484	\$	3,520
2	Demand Related	\$	1,700,526	\$	428,094
	Total OATT Transmission Expense		1,708,010		432,615
	Pilot Project				
3	Energy Related	\$	-	\$	-
4	Demand Related	\$	11,716	\$	2,948
	Total Pilot Project Expense		11,716		2,948
5	Total T-RAC Cost of Service (Line 1-4)		1,719,726		435,563
	Rate Year Demand-Related Charges	\$	1,718,242	\$	432,040
	Rate Year Energy-Related Charges	\$	1,484	\$	3,520

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	Total		Non-Jurisdiction		Virginia Jurisdiction		RESIDENTIAL SERVICE		SMALL GENERAL SERVICE		GENERAL SERVICE		LARGE POWER SERVICE		SANCTUARY WORSHIP SERVICE		OUTDOOR LIGHTING SERVICE	
							RS		SGS		GS		LPS		SWS		OL	
Rate Year	\$	694,098	\$	313,981	\$	380,117	\$	228,474	\$	17,133	\$	61,632	\$	70,722	\$	1,720	\$	436
2025	\$	691,623	\$	327,399	\$	364,224	\$	218,917	\$	16,416	\$	59,056	\$	67,769	\$	1,648	\$	417
2026	\$	739,891	\$	350,268	\$	389,723	\$	234,271	\$	17,508	\$	63,185	\$	72,492	\$	1,764	\$	446
2027	\$	780,162	\$	359,811	\$	400,351	\$	240,635	\$	18,045	\$	64,913	\$	74,488	\$	1,811	\$	459
2028	\$	800,843	\$	378,051	\$	421,792	\$	253,528	\$	19,011	\$	68,389	\$	78,473	\$	1,908	\$	483

*Non-Jurisdiction Rate Year does not include under-recovery

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2022-00014
Schedule 4B
Customer Class Demand and Energy Allocators

APCO Exhibit No. _____
Witness JBS
Schedule 4B
a4 Statement 1-Class Allocators
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20240619029

Line No.	Allocator Name	Allocator								
			RESIDENTIAL SERVICE	SMALL GENERAL SERVICE	GENERAL SERVICE	MEDIUM GENERAL SERVICE	LARGE POWER SERVICE	SANCTUARY WORSHIP SERVICE	OUTDOOR LIGHTING SERVICE	
			RS	SGS	GS	MGS	LPS	SWS	OL	
			SEC					Sec	Sec	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
Amount										
1	NON-SHOPPING DEMAND - SIX CP	DEM	2,808,782	1,888,945	128,597	455,287	-	622,026	12,719	3,188
2	NON-SHOPPING KWH AT GENERATOR	ENER	15,017,603,475	8,926,159,705	671,371,557	2,863,889,717	-	4,445,838,979	32,695,877	77,647,840
3	TOTAL DISTRIBUTION PLANT	DIST	2,553,681,344	1,819,735,693	151,726,825	389,456,186	-	139,826,763	12,634,970	60,279,917
4	DEMAND - SIX CP	DEM	1.00	0.001315	0.045072	0.162089	0.000000	0.185857	0.004528	0.001139
5	KWH AT GENERATOR	ENER	1.00	0.481208	0.044706	0.190703	0.000000	0.296044	0.002177	0.005164
6	TOTAL DISTRIBUTION PLANT	DIST	1.00	0.712599	0.059415	0.144677	0.000000	0.054755	0.004848	0.023605

Source: 2024 Biennial Schedule 40 C

24061929

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T.R.A.C.)
Case No. PUR-2022-00014
Schedule 48
TOD Revenue Requirements and Rate Design

APCO EDNR No. 2022-00014
Version 2.0
Schedule 48
at Eastern Piedmont
Page 1 of 1

Line	TOD	Unit	Description	(1)	(2)	(3) = (2) * 0.1	(4) = (3) * 10	(5)	(6) = (5) * 1	(7) = (6) * 10	(8) = (7) * 10	(9) = (8) * 10	(10) = (9) * 10	(11) = (10) * 10	(12) = (11) * 10	(13) = (12) * 10	(14) = (13) * 10	(15) = (14) * 10	(16) = (15) * 10	(17) = (16) * 10	(18) = (17) * 10	(19) = (18) * 10	(20) = (19) * 10	(21) = (20) * 10	(22) = (21) * 10	(23) = (22) * 10	(24) = (23) * 10	(25) = (24) * 10	(26) = (25) * 10	(27) = (26) * 10	(28) = (27) * 10	(29) = (28) * 10	(30) = (29) * 10	(31) = (30) * 10	(32) = (31) * 10	(33) = (32) * 10	(34) = (33) * 10	(35) = (34) * 10	(36) = (35) * 10	(37) = (36) * 10	(38) = (37) * 10	(39) = (38) * 10	(40) = (39) * 10	(41) = (40) * 10	(42) = (41) * 10	(43) = (42) * 10	(44) = (43) * 10	(45) = (44) * 10	(46) = (45) * 10	(47) = (46) * 10	(48) = (47) * 10	(49) = (48) * 10	(50) = (49) * 10	(51) = (50) * 10	(52) = (51) * 10	(53) = (52) * 10	(54) = (53) * 10	(55) = (54) * 10	(56) = (55) * 10	(57) = (56) * 10	(58) = (57) * 10	(59) = (58) * 10	(60) = (59) * 10	(61) = 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APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2022-00014
Schedule 48
Rate Design

APCO Exhibit No. _____
Witness CEN
Schedule 48
s4 Statement 3 Rate Dev
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24061029

(A)	(B)	(C)	(D)	(E) = (B) - (D)	(F)	(G)	(H) = [(C)-(E)]/(F) or (C)/(F)	(I) = [(C)/(G)]	(J)
Line No. Tariff Description	Transmission Cost			TOD Revenue Requirement	Energy Revenue Less TOD Revenue	Units @ Secondary Voltage Level		Secondary Rate	
	Energy	On Peak Demand	Off Peak Excess Demand	Dollars	Dollars	Energy - kWh	Demand - kW	\$/kWh ¹	On-Peak Demand - \$/kW ²
1 Residential Service	\$ 314,425	\$ 228,159,861	\$ -	\$ 95,696	\$ 218,729	6,284,606,132	0	\$ 0.03646	
2 Sanctuary Worship Service	\$ 1,484	\$ 1,718,242	\$ -	\$ -	\$ 1,484	29,568,351	0	\$ 0.05812	
3 Small General Service	\$ 30,478	\$ 17,102,043	\$ -	\$ 1,564	\$ 28,914	807,424,993	0	\$ 0.02819	
4 Large Power Service	\$ 201,827	\$ 70,403,322	\$ 117,218	\$ -	\$ 201,827	3,873,543,897	6,870,039	\$ 0.00004	\$ 10.25
5 Outdoor Lighting	\$ 3,520	\$ 432,040	\$ -	\$ -	\$ 3,520	89,036,342	0	\$ 0.00631	
6 Total of Line(1 - 5)	\$ 681,734	\$ 317,815,508	\$ 117,218	\$ 97,258	\$ 454,478	10,644,287,718	6,870,039		

7 General Service	\$ 48,248,883	\$ 15,372,891	\$ 10,500	\$ 1,181,731	\$ 45,066,052	2,535,558,373	7,763,390	\$ 1.98	\$ 0.77
8 Block 3 - Initial Rate				\$ 12,228	\$ 238,470,931			\$ 0.00005	
9 Block 2 - Initial Rate				\$ 18,033,337	\$ 1,190,219,090			\$ 0.01515	
10 Block 1 - Initial Rate				\$ 27,008,999	\$ 1,109,868,352			\$ 0.02440	

Line No. Tariff Description	Secondary Rates											
	Going Level Factors			Under Recovery Factors ¹			Total Factors			Going Level Factors		
	Energy - \$/kWh	On-Peak Demand - \$/kW	Off-Peak Excess Demand - \$/kW	Energy - \$/kWh	On-Peak Demand - \$/kW	Off-Peak Excess Demand - \$/kW	Energy - \$/kWh	On-Peak Demand - \$/kW	Off-Peak Excess Demand - \$/kW	Energy Loss Factor	Demand Loss Factor	
11 Residential Service	\$ 0.03646			\$ -			\$ 0.03646					
12 Sanctuary Worship Service	\$ 0.05812			\$ -			\$ 0.05812					
13 Small General Service	\$ 0.02819			\$ -			\$ 0.02819					
14 Large Power Service	\$ 0.00004	\$ 10.25	\$ 1.08	\$ -	\$ -	\$ -	\$ 0.00004	\$ 10.25	\$ 1.08	0.9494	0.9682	\$0.00004
15 Outdoor Lighting	\$ 0.00631			\$ -			\$ 0.00631					
16 General Service - Block 1	\$ 0.02440	\$ 1.98	\$ 0.77	\$ -	\$ -	\$ -	\$ 0.02440	\$ 1.98	\$ 0.77	0.9494	0.9682	\$0.02317
17 General Service - Block 2	\$ 0.01515			\$ -			\$ 0.01515					\$0.01438
18 General Service - Block 3	\$ 0.00005			\$ -			\$ 0.00005					\$0.00005

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2022-00014
Schedule 4B
Rate Design

APCO Exhibit No. _____
Witness GEN
Schedule 4B
a4 Statement 3 Rate Dev
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(A)	(B)	(C)	(D)	(E) = (B) - (D)	(F)	(G)	(H) = (C+E)/(F) or (C)/(F)	(I) = [(C)/(G)]	(J)							
Line No.	Tariff Description	Transmission Cost		TOD Revenue Requirement	Energy Revenue Less TOD Revenue	Units @ Secondary Voltage Level		Secondary Rate								
Line No.	Tariff Description	Subtransmission rates												Energy Loss Factor	Demand Loss Factor	Energy - \$/KWH
		Going Level Factors						Under Recovery Factors			Total Factors					
		Energy Loss Factor	Demand Loss Factor	Energy - \$/KWH	On-Peak Demand - \$/KW	Off-Peak Excess \$/KW	Energy - \$/KWH	On-Peak Demand - \$/KW	Off-Peak Excess \$/KW	Energy - \$/KWH	On-Peak Demand - \$/KW	Off-Peak Excess \$/KW				
19	Large Power Service ²	0.9459	0.9614	\$0.00004	\$9.85	\$1.02	\$0.00000	\$0.00	\$0.00	\$0.00004	\$9.85	\$1.02	0.9295	0.9463	\$0.00004	
20	Outdoor Lighting															
21	General Service - Block 1	0.9459	0.9614	\$0.02308	\$1.90	\$0.74	\$0.00000	\$0.00	\$0.00	\$0.02308	\$1.90	\$0.74	0.9295	0.9625	\$0.02308	
22	General Service - Block 2			\$0.01433			\$0.00000			\$0.01433					\$0.01433	
23	General Service - Block 3			\$0.00005			\$0.00000			\$0.00005					\$0.00005	

OFF PEAK EXCESS DEMAND REVENUE REQUIREMENTS

OFF-PEAK EXCESS DEMAND REVENUE REQUIREMENTS												
	(A)	(B)	(C)	(D) = (B) / (C)	(E) = (D) * 0.1	(F)	(G) = (E) * (F)	(H) = (B) - (G)	(I)	(J) = (H) * (I)	(K) = (A) + (J) - (I)	
Tariff Description	Energy - Related Cost	Demand - Related Cost	Demand Units @ Secondary Voltage Units	Unit Demand Cost	Cost Based Off-Peak Excess Charge (10%)	Off - Peak Excess Units	Proposed Off-Peak Excess Revenue	Demand Cost Less Off-Peak Excess Revenue	% of Demand Cost in Demand Rate	Adjusted Demand Cost	Adjusted Energy Cost	75.00%
	\$ -	\$ -	-	\$ -	\$ -	0	\$ -	\$ -	-	\$ -	\$ -	\$ 61,502,063
Large General Service												\$ 10,500
General Service	\$ 130,011	\$ 61,502,063	7,763,399	\$ 7.92	\$ 0.79	13,291	\$ 10,500	\$ 61,491,563	25.00%	\$ 15,372,891	\$ 46,248,663	\$ 1,181,731
Large Power Service	\$ 201,827	\$ 70,520,538	6,870,039	\$ 10.26	\$ 1.03	113,802	\$ 117,216	\$ 70,403,322	100.00%	\$ 70,403,322	\$ 201,827	\$ 15,372,891
	\$ 331,838	\$ 132,022,601	14,633,438			127,093	\$ 127,716	\$ 131,894,885		\$ 85,776,213	\$ 46,450,510	\$ 44,936,941

Company does not distinguish between secondary and primary for SGS class. Used billed level energy. SGS are not loss adjusted due each customer being billed at the secondary rate

Adjustments to Class Allocations of Demand and Energy Related Costs

Under Recovery Ratio Calculation:

Under Recovery Revenue Requirement	\$ -
Going Level Revenue Requirement	\$ -
Total Revenue Requirement	\$ -
Under Recovery Ratio	0.00%

The Company is not proposing a separate "under recovery factor" in this proceeding, that is why these factors are set at zero and the total factors equal the going level factors

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
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240610029

	GS D Cost in Block Rates	GS Energy Cost
% of Cost	\$ 44,838,841	\$ 130,611
0%	-	0.00005
40%	0.015100	0.00005
60%	0.024350	0.00005

Primary Rates					
Under Recovery Factors			Total Factors		
Energy - \$/KWH	On-Peak Demand - \$/KW	Off-Peak Excess \$/KW	Energy - \$/KWH	On-Peak Demand - \$/KW	Off-Peak Excess \$/KW
\$0.00000	\$0.00	\$0.00	\$ 0.00004	\$ 9.91	\$ 1.02
\$0.00000	\$0.00	\$0.00	\$ 0.02317	\$ 1.91	\$ 0.74
\$0.00000			\$ 0.01438		
\$0.00000			\$ 0.00005		

APPALACHIAN POWER COMPANY - VIRGINIA
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Transmission								
Going Level Factors			Under Recovery Factors			Total Factors		
On-Peak Demand - \$/KW	Off-Peak Excess \$/KW		Energy - \$/KWH	On-Peak Demand - \$/KW	Off-Peak Excess \$/KW	Energy - \$/KWH	On-Peak Demand - \$/KW	Off-Peak Excess \$/KW
\$9.70	\$1.00		\$0.00000	\$0.00	\$0.00	\$ 0.00004	\$ 9.70	\$ 1.00
\$1.91	\$0.74		\$0.00000	\$0.00	\$0.00	\$ 0.02268	\$ 1.89	\$ 0.74
			\$0.00000			\$ 0.01408		
			\$0.00000			\$ 0.00005		

Remaining
Demand %
Demand Cost before reallocation
less Off-peak excess revenue
less TOD Revenue
less Demand charge revenue
Residual Demand Cost before Reallocation

240616326

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2021-00018
Schedule 46
Revenue Proof

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Witness CEN
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Proposed														
Line No.	Tariff Code	Tariff Description	KWH	KW	Off-Peak Excess	Energy Rate	Demand Rate	Off-Peak Excess	Total Revenue	Class Total	Cost Study	Under Recovery	Total Target Revenue	Over / (Under)
1	11	RS-LMWH	19,604,484	N/A	N/A	\$0.03646			\$714,779	\$228,503,235	\$228,474,288	\$0	\$228,474,286	\$28,949
2	15	RS	6,224,895,683	N/A	N/A	\$0.03646			\$228,959,697					
3	20	RS EMP	19,984,884	N/A	N/A	\$0.03646			\$728,649					
4	30	RS-TOD - On peak	1,004,626	N/A	N/A	\$0.08432			\$84,710					
5		- Off peak	1,840,112	N/A	N/A	\$0.00597			\$10,965					
6	51	RS-LMWH	121,081	N/A	N/A	\$0.03646			\$4,415					
7	093	8500 L, 175 W	13,665,208	N/A	N/A	\$0.00631			\$86,227	\$435,619	\$435,561	\$0	\$435,561	\$59
8	094	9500 L, 100 W	12,077,565	N/A	N/A	\$0.00631			\$76,209					
9	095	23000 L, 400 W	2,893,415	N/A	N/A	\$0.00631			\$18,257					
10	096	13000 L, 250 W	6,567	N/A	N/A	\$0.00631			\$41					
11	097	22000 L, 200 W	4,141,698	N/A	N/A	\$0.00631			\$26,133					
12	098	50000 L, 400 W	8,195,738	N/A	N/A	\$0.00631			\$51,715					
13	099	8500 L, 175 W	1,218,326	N/A	N/A	\$0.00631			\$7,675					
14	102	36000 Lumen, 400 W Flood	9,485,249	N/A	N/A	\$0.00631			\$59,852					
15	103	28500 L, 250 W SB	1,228,108	N/A	N/A	\$0.00631			\$7,749					
16	104	50000 Lumen, 400 W	567,563	N/A	N/A	\$0.00631			\$3,581					
17	105	36000 Lumen, 400 W	1,506,883	N/A	N/A	\$0.00631			\$9,508					
18	106	6300 L, 70 W	30,577	N/A	N/A	\$0.00631			\$193					
19	109	50000 L, 400 W Flood	3,053,244	N/A	N/A	\$0.00631			\$19,266					
20	111	9500 L, 100 W	1,256,280	N/A	N/A	\$0.00631			\$7,927					
21	113	28500 PTVS, 250 W	473,126	N/A	N/A	\$0.00631			\$2,985					
22	117	9500 MQNG	4,830	N/A	N/A	\$0.00631			\$30					
23	118	22000 MQN	27,882	N/A	N/A	\$0.00631			\$176					
24	119	50000 MQN	72,000	N/A	N/A	\$0.00631			\$454					
25	124	50000 Lumen, 400 W Flood	484,419	N/A	N/A	\$0.00631			\$3,057					
26	126	36000 Lumen, 400 W Flood	753,021	N/A	N/A	\$0.00631			\$4,752					
27	127	28500 L, 250 W Flood	402,538	N/A	N/A	\$0.00631			\$2,540					
28	131	110000 Lumen, 1000 W Flood	2,228,199	N/A	N/A	\$0.00631			\$14,060					
29	132	110000 Lumen, 1000 W Flood	149,772	N/A	N/A	\$0.00631			\$945					
30	134	13000 Lumen, 175 W Flood	28,938	N/A	N/A	\$0.00631			\$183					
31	135	13000 Lumen, 175 W Flood	5,874	N/A	N/A	\$0.00631			\$38					
32	136	13001 Lumen, 150W Flood	507,724	N/A	N/A	\$0.00631			\$3,204					
33	137	13002 Lumen, 150 W Flood	218,138	N/A	N/A	\$0.00631			\$1,376					
34	141	9500 MQN	3,368	N/A	N/A	\$0.00631			\$21					
35	142	22000 MQN	23,276	N/A	N/A	\$0.00631			\$147					
36	143	50000 MQN	4,000	N/A	N/A	\$0.00631			\$25					
37	150	58W LEDQH	818,910	N/A	N/A	\$0.00631			\$5,167					
38	151	58W LEDUG	20,351	N/A	N/A	\$0.00631			\$128					
39	152	100W LEDQH	506,537	N/A	N/A	\$0.00631			\$3,186					
40	153	100W LEDUG	145,506	N/A	N/A	\$0.00631			\$918					
41	154	75W LEDQH	771,707	N/A	N/A	\$0.00631			\$4,869					
42	155	175W LEDUG	370,398	N/A	N/A	\$0.00631			\$2,337					
43	156	300W LEDQH	119,972	N/A	N/A	\$0.00631			\$757					
44	157	300W LEDUG	38,935	N/A	N/A	\$0.00631			\$233					
45	158	65W LPTUG	90,739	N/A	N/A	\$0.00631			\$573					
46	159	175W LFLQH	807,099	N/A	N/A	\$0.00631			\$5,093					
47	160	175W LFLUG	74,122	N/A	N/A	\$0.00631			\$468					
48	161	265W LFLQH	531,794	N/A	N/A	\$0.00631			\$3,356					
49	162	265W LFLUG	30,739	N/A	N/A	\$0.00631			\$194					
50	213	SGS UMTRO	733,678	N/A	N/A	\$0.02819			\$20,682	\$17,129,374	\$17,132,521	\$0	\$17,132,521	-\$3,147
51	225	SGS-LMTOD On peak	22,406	N/A	N/A	\$0.06018			\$1,348					
		Off peak	44,150	N/A	N/A	\$0.00488			\$215					
52	231, 233, 291	SGS SEC	603,697,284	N/A	N/A	\$0.02819			\$17,018,226					
53	234	SGS PRI	3,153,666	N/A	N/A	\$0.02819			\$89,902	GS/MGS	GS/MGS		GS/MGS	
54	227	GS-TOD Pri - On peak	0	N/A	N/A	\$0.04607			\$0					
55		- Off peak	0	N/A	N/A	\$0.00404			\$0					
56	229	GS-TOD SEC - On peak	11,795,545	N/A	N/A	\$0.04853			\$572,438					
57		- Off peak	17,822,971	N/A	N/A	\$0.00426			\$75,926					
58	337	LGS-TOD SEC - On peak	9,725,171	110,220		\$0.04853			\$471,963					
59		- Off peak	14,414,250			\$0.00426			\$61,405					
60	339	LGS-TOD Pri - On peak	0	0		\$0.04607			\$0					
61		- Off peak	0			\$0.00404			\$0					
62	261	GS SEC, Block 1	1,013,446,906	7,095,551	11,269	\$0.02440	\$1.98	\$0.77	\$36,789,244					
63		Block 2	1,086,178,977			\$0.01515			\$16,456,997					
64		Block 3	204,326,473			\$0.00005			\$10,477					
65	263	GS PRI, Block 1	93,205,770	651,860	1,818	\$0.02317	\$1.91	\$0.74	\$3,405,975					
66		Block 2	102,782,524			\$0.01438			\$1,478,013					
67		Block 3	33,115,364			\$0.00005			\$1,656					
68	265	GS SUB, Block 1	4,563,304	31,313	276	\$0.02308	\$1.90	\$0.74	\$164,789					
69		Block 2	6,564,811			\$0.01433			\$94,074					
70		Block 3	2,859,973			\$0.00005			\$143					
71	267	GS TRAN, Block 1	673,760	7,203		\$0.02268	\$1.89	\$0.74	\$28,895					
72		Block 2	268,240			\$0.01408			\$3,791					
73		Block 3	0			\$0.00005			\$0	\$61,615,784	\$61,632,074	\$0	\$61,632,074	-\$16,290
74	222	SWS	29,586,351	N/A	N/A	\$0.05812			\$1,719,559	\$1,719,559	\$1,719,726	\$0	\$1,719,726	-\$167
75	302	LPSSEC	177,040,824	372,715	1,250	\$0.00004	\$10.25	\$1.06	\$3,828,733	\$70,708,415	\$70,722,364	\$0	\$70,722,364	-\$15,950
76	303	LPS PRI	1,870,656,725	3,495,760	33,572	\$0.00004	\$9.91	\$1.02	\$34,752,054					
77	308, 309	LPS/ATOD SUB	1,355,760,028	2,403,585	72,134	\$0.00004	\$9.85	\$1.02	\$23,603,121					
78	310	LPS TRANS	471,510,917	854,873	11,376	\$0.00004	\$9.70	\$1.00	\$8,322,508					
79	Total of Line (1 - 78)			13,450,427,259	15,024,079	131,695			\$380,109,986	\$380,109,986	\$380,116,532	\$0	\$380,116,532	-\$6,546
80	Total Target Revenue									380,116,532				
81	Over / (Under) =									(6,546)				

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Standard Appalachian Power Company Summary of Demand and Energy Rates				
	Differentiated Rates	Energy T-RAC per kWh	Demand T-RAC per kW	T-RAC Per Off-Peak Excess kW
Residential (011,012,013,014,015,019,020,051,054)		0.03646		
Residential - TOD or TOU (030,031,032,036)	On-Peak	0.08432		
	Off-Peak	0.00597		
SWS (222)		0.05812		
SGS - (231,233,234,213,281)		0.02819		
SGS - LMTOD (225,226)	On-Peak	0.06018		
	Off-Peak	0.00485		
GS-TOD Secondary (229,230)	On-Peak	0.04853		
	Off-Peak	0.00426		
GS-TOD Primary (227)	On-Peak	0.04607		
	Off-Peak	0.00404		
GS-Secondary (261)	Block 1	0.02410	\$1.98	\$0.77
	Block 2	0.01515		
	Block 3	0.00005		
GS-Primary (263)	Block 1	0.02317	\$1.91	\$0.74
	Block 2	0.01438		
	Block 3	0.00005		
GS-Subtransmission (265)	Block 1	0.02303	\$1.90	\$0.74
	Block 2	0.01433		
	Block 3	0.00005		
GS-Transmission (267)	Block 1	0.02268	\$1.89	\$0.74
	Block 2	0.01408		
	Block 3	0.00005		
LGS - TOD Secondary (337)	On-Peak	0.04853		
	Off-Peak	0.00426		
LGS - TOD Primary (339)	On-Peak	0.04607		
	Off-Peak	0.00404		
LPS - Secondary (302)		0.00004	\$10.25	\$1.06
LPS - Primary (306)		0.00004	\$9.91	\$1.02
LPS - Subtransmission (303) (309)		0.00004	\$9.85	\$1.02
LPS - Transmission (310)		0.00004	\$9.70	\$1.00
DL (093 to 143)		0.00631		

Appalachian Power Company Summary of Demand and Energy Rates				
	Differentiated Rates	Energy T-RAC per kWh	Demand T-RAC per kW	T-RAC Per Off-Peak Excess kW
SGS - (231F,233F,234F,213F,281F)		0.02819		
GS-Secondary (261F)	Block 1	0.02410	\$1.98	\$0.77
	Block 2	0.01515		
	Block 3	0.00005		
GS-Primary (263F)	Block 1	0.02317	\$1.91	\$0.74
	Block 2	0.01438		
	Block 3	0.00005		
GS-Subtransmission (265F)	Block 1	0.02308	\$1.90	\$0.74
	Block 2	0.01433		
	Block 3	0.00005		
GS-Transmission (267F)	Block 1	0.02268	\$1.89	\$0.74
	Block 2	0.01408		
	Block 3	0.00005		
LPS - Secondary (302F)		0.00004	\$10.25	\$1.06
LPS - Primary (306F)		0.00004	\$9.91	\$1.02
LPS - Subtransmission (303F) (309F)		0.00004	\$9.85	\$1.02
LPS - Transmission (310F)		0.00004	\$9.70	\$1.00

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2023-00061
Rate Design Billing Determinants

APCO Exhibit No. _____
Witness CEN
Schedule 48
a4 Statement & Billing Determinants
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Line No.	Tariff Code	Tariff Description	(A)	(B)	(C)	(D)	(E)	(F) = (A) * (D)	(G) = (B) * (E)	(H) = (C) * (E)
			Billing Determinants 2024 Biennial Filing Growth & Weather Adjusted Loss OAD			Loss Factor		Units @ Secondary Voltage Level		
			Energy	Demand	Excess Off - Peak	Energy	Demand	Energy	Demand	Excess Off - Peak
1	11, 12, 13, 14	RS-LMWH	19,604,484	N/A	N/A	1.0000	1.0000	19,604,484	0	0
2	15, 19	RS	6,224,895,683	N/A	N/A	1.0000	1.0000	6,224,895,683	0	0
3	20	RS EMP	19,984,884	N/A	N/A	1.0000	1.0000	19,984,884	0	0
4	30	RS-TOD	2,844,738	N/A	N/A	1.0000	1.0000	2,844,738	0	0
5	51	RS-LMWH	121,081	N/A	N/A	1.0000	1.0000	121,081	0	0
6	093	8500 L, 175 W	13,685,208	N/A	N/A	1.0000	1.0000	13,685,208	0	0
7	094	9500 L, 100 W	12,077,565	N/A	N/A	1.0000	1.0000	12,077,565	0	0
8	095	23000 L, 400 W	2,893,415	N/A	N/A	1.0000	1.0000	2,893,415	0	0
9	096*	13000 L, 250 W	6,567	N/A	N/A	1.0000	1.0000	6,567	0	0
10	097	22000 L, 200 W	4,141,568	N/A	N/A	1.0000	1.0000	4,141,568	0	0
11	098	50000 L, 400 W	8,195,738	N/A	N/A	1.0000	1.0000	8,195,738	0	0
12	099	8500 L, 175 W	1,218,328	N/A	N/A	1.0000	1.0000	1,218,328	0	0
13	102	38000 Lumen, 400 W Flood	9,465,249	N/A	N/A	1.0000	1.0000	9,465,249	0	0
14	103	28500 L, 250 W SB	1,228,108	N/A	N/A	1.0000	1.0000	1,228,108	0	0
15	104	50000 Lumen, 400 W	587,563	N/A	N/A	1.0000	1.0000	587,563	0	0
16	105	38000 Lumen, 400 W	1,508,883	N/A	N/A	1.0000	1.0000	1,508,883	0	0
17	106	6300 L, 70 W	30,577	N/A	N/A	1.0000	1.0000	30,577	0	0
18	109	50000 L, 400 W Flood	3,053,244	N/A	N/A	1.0000	1.0000	3,053,244	0	0
19	111	9500 L, 100 W	1,258,280	N/A	N/A	1.0000	1.0000	1,258,280	0	0
20	113	28500 PTVS, 250 W	473,128	N/A	N/A	1.0000	1.0000	473,128	0	0
21	117	9500 MON	4,830	N/A	N/A	1.0000	1.0000	4,830	0	0
22	118	22000 MON	27,882	N/A	N/A	1.0000	1.0000	27,882	0	0
23	119	50000 MON	72,000	N/A	N/A	1.0000	1.0000	72,000	0	0
24	124	50000 Lumen, 400 W Flood	484,419	N/A	N/A	1.0000	1.0000	484,419	0	0
25	126	38000 Lumen, 400 W Flood	753,021	N/A	N/A	1.0000	1.0000	753,021	0	0
26	127	28500 L, 250 W Flood	402,538	N/A	N/A	1.0000	1.0000	402,538	0	0
27	131	110000 Lumen, 1000 W Flood	2,228,199	N/A	N/A	1.0000	1.0000	2,228,199	0	0
28	132	110000 Lumen, 1000 W Flood	149,772	N/A	N/A	1.0000	1.0000	149,772	0	0
29	134	13000 Lumen, 175 W Flood	28,938	N/A	N/A	1.0000	1.0000	28,938	0	0
30	135	13000 Lumen, 175 W Flood	5,974	N/A	N/A	1.0000	1.0000	5,974	0	0
31	138	13000 Lumen, 150 W Flood	507,724	N/A	N/A	1.0000	1.0000	507,724	0	0
32	137	13000 Lumen, 150 W Flood	218,138	N/A	N/A	1.0000	1.0000	218,138	0	0
33	141	9500 MON	3,388	N/A	N/A	1.0000	1.0000	3,388	0	0
34	142	22000 MON	23,278	N/A	N/A	1.0000	1.0000	23,278	0	0
35	143	50000 MON	4,000	N/A	N/A	1.0000	1.0000	4,000	0	0
36	150	55W LEDOH	818,910	N/A	N/A	1.0000	1.0000	818,910	0	0
37	151	55W LEDUG	20,351	N/A	N/A	1.0000	1.0000	20,351	0	0
38	152	100W LEDOH	508,537	N/A	N/A	1.0000	1.0000	508,537	0	0
39	153	100W LEDUG	145,508	N/A	N/A	1.0000	1.0000	145,508	0	0
40	154	75W LEDOH	771,707	N/A	N/A	1.0000	1.0000	771,707	0	0
41	155	175W LEDUG	370,398	N/A	N/A	1.0000	1.0000	370,398	0	0
42	156	300W LEDOH	119,972	N/A	N/A	1.0000	1.0000	119,972	0	0
43	157	300W LEDUG	36,935	N/A	N/A	1.0000	1.0000	36,935	0	0
44	158	85W LPTUG	90,739	N/A	N/A	1.0000	1.0000	90,739	0	0
45	159	175W LFLQH	807,099	N/A	N/A	1.0000	1.0000	807,099	0	0
46	160	175W LFLUG	74,122	N/A	N/A	1.0000	1.0000	74,122	0	0
47	161	265W LFLQH	531,794	N/A	N/A	1.0000	1.0000	531,794	0	0
48	162	265W LFLUG	30,739	N/A	N/A	1.0000	1.0000	30,739	0	0
49	213	SGS UMTD	733,678	N/A	N/A	1.0000	1.0000	733,678	0	0
50	222	SWS	29,586,351	N/A	N/A	1.0000	1.0000	29,586,351	0	0
51	225	SGS-LMTD	68,556	N/A	N/A	1.0000	1.0000	68,556	0	0
52	227	GS-TOD PRI	0	N/A	N/A	0.9494	0.9682	0	0	0
53	229	GS-TOD SEC	28,618,516	N/A	N/A	1.0000	1.0000	28,618,516	0	0
54	337	LGS-TOD SEC	24,139,421	110,220	N/A	1.0000	1.0000	24,139,421	110,220	0
55	339	LGS-TOD PRI	0	-	N/A	0.9494	0.9682	0	0	0
56	231, 233, 281	SGS SEC	603,697,264	N/A	N/A	1.0000	1.0000	603,697,264	0	0
57	234	SGS PRI	3,153,688	N/A	N/A	0.9494	0.9682	2,994,051	0	0
58	261	GS SEC	2,303,952,357	7,098,551	11,289	1.0000	1.0000	2,303,952,357	7,098,551	11,289
59	263	GS PRI	228,103,658	651,860	1,818	0.9494	0.9682	217,508,141	629,811	1,758
60	265	GS SUB	13,978,088	31,313	278	0.9459	0.9614	13,221,374	30,105	268
61	267	GS TRAN	943,000	7,203	0	0.9295	0.9625	876,502	6,933	0
62	302	LPSTODSEC	177,040,824	372,715	1,250	1.0000	1.0000	177,040,824	372,715	1,250
63	306	LPS PRI	1,870,655,725	3,495,780	33,572	0.9494	0.9682	1,775,877,093	3,377,518	32,437
64	308, 309	LPS/ATOD SUB	1,355,760,028	2,403,585	72,134	0.9459	0.9614	1,282,384,952	2,310,842	69,351
65	310	LPS TRANS	471,510,817	854,873	11,376	0.9285	0.9483	438,251,028	808,884	10,765
66	378, 380	LGS SEC	0	-	0	1.0000	1.0000	0	0	0
67	378, 381	LGS PRI	0	-	0	0.9494	0.9682	0	0	0
68	382	LGS SUB	0	-	0	0.9459	0.9614	0	0	0
69	386	LGS Trans	0	-	0	0.9295	0.9483	0	0	0
58	Total KWH (Line 1 - 67)		13,450,427,280	15,024,079	131,695			13,236,525,320	14,743,658	127,093

¹ Loss factor per 2023 Triennial Filing

0 Check (SB 0)

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APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2023-00081
Rate Design Billing Determinants

APCO Exhibit No. _____
Witness CEN
Schedule 48
a4 Statement & Billing Determinants
Page 2 of 2

Line No.	Tariff Code	Tariff Description	(A)	(B)	(C)	(D)	(E)	(F) = (A) * (D)	(G) = (B) * (E)	(H) = (C) * (E)
			Billing Determinants 2024 Biennial Filing Growth & Weather Adjusted Loss OAD			Loss Factor		Units @ Secondary Voltage Level		
			Energy	Demand	Excess Off - Peak	Energy	Demand	Energy	Demand	Excess Off - Peak
<u>General Services</u>										
		<u>GS Block 1 Stand Alone</u>	Test Year Data					GS Units at Secondary		
		GS-Secondary	1,013,448,908			1.0000		1,013,448,908		
		GS-Primary	93,205,770			0.9494		88,488,390		
		GS-Subtransmission	4,553,304			0.9459		4,308,808		
		GS-Transmission	673,760			0.9295		626,248		
								1,106,868,352		
		<u>GS Block 2 Stand Alone</u>								
		GS-Secondary	1,086,178,977			1.0000		1,086,178,977		
		GS-Primary	102,782,524			0.9494		97,580,439		
		GS-Subtransmission	8,564,811			0.9459		8,208,420		
		GS-Transmission	269,240			0.9295		250,254		
		Total						1,190,219,090		
		<u>GS Block 3 Stand Alone</u>								
		GS-Secondary	204,328,473			1.0000		204,328,473		
		GS-Primary	33,115,364			0.9494		31,439,311		
		GS-Subtransmission	2,859,973			0.9459		2,705,146		
		GS-Transmission	-			0.9295		0		
		Total						238,470,931		

APPALACHIAN POWER COMPANY - VIRGINIA
TRANSMISSION RATE ADJUSTMENT CLAUSE (T-RAC)
Case No. PUR-2023-00061
Rate Design Billing Determinants - TOD Classes

APCo Exhibit No. _____
Witness CEN
Schedule 46
a4 Statement 7 Bill Detm TOD
Page 1 of 1

240610023

Line No.	Tariff Code	Tariff Description	(A)	(B)	(C)		(E) = (A) * (C)	(F) = (B) * (D)
			Billing Determinants 2024 Biennial Filing Growth & Weather Adjusted			Loss Factor ¹	Units @ Secondary Voltage Level	
			On-Peak	Off-Peak	Demand kW		On-Peak	Off-Peak
1	30, 36	RS-TOD	1,004,626	1,840,112	N/A	1.00000	1,004,626	1,840,112
2	225	SGS-LMTOD	22,406	44,150	N/A	1.00000	22,406	44,150
3	227	GS-TOD PRI	0	0	N/A	0.94939	0	0
4	229	GS-TOD SEC	11,795,545	17,822,971	N/A	1.00000	11,795,545	17,822,971
5	337	LGS-TOD SEC	9,725,171	14,414,250	110,220	1.00000	9,725,171	14,414,250
6	339	LGS-TOD PRI	0	0	0	0.94939	0	0
7	Total KWH (Line 1 - 6)		22,547,748	34,121,482			22,547,748	34,121,482

Notes

¹ Loss factor per 2023 Triennial Filing