Docketing Division
Public Utilities Commission of Ohio
180 East Broad Street
Columbus OH 43215

RE: In the Matter of the Application of Ohio Power Company for an Increase in Electric Distribution Rates, Case Nos. 20-585-EL-AIR, 20-586-EL-ATA, and 20-587-ELAAM.

Dear Docketing Division:
Enclosed please find Staff's corrected Staff Report replacing the Staff Report issued on November 18, 2020 regarding Ohio Power Company, for an Increase in Electric
Distribution Rates, Case Nos. 20-585-EL-AIR, et al.

Enclosure
Cc: Parties of Record

## Ohio Power Company

Case No. 20-585-EL-AIR
Case No. 20-586-EL-ATA
Case No. 20-587-EL-AAM
The purpose of this letter is to amend the Staff Report filed on November 18, 2020 in order to correct a clerical error contained within the schedules of the Staff Report for which three values were erroneously deleted. The clerical error was contained in Staff WPB-2.2b (cells K34 \& K35) and WPB-2.2c (cell K35). Staff notes that this clerical error does not affect the revenue requirement, adjustments, or any other recommendations contained in the text of the Staff Report. This clerical error affected the following schedules:

- A-1: Overall Financial Summary
- B-1: Jurisdictional Rate Base Summary
- B-2: Plant in Service Summary by Major Property Groupings
- B-2.1: Plant in Service by Accounts and Subaccounts (pages 3 \& 4)
- B-2.2: Adjustments to Plant in Service
- B-3.2: Depreciation Accrual Rates and Jurisdictional Reserve Balance by Accounts (pages $1 \& 2$ )
- C-1: Jurisdictional Pro Forma Income Statement
- C-2: Jurisdictional Adjusted Test Year Net Electric Operating Income
- C-3: Summary of Jurisdictional Adjustments to Operating Income (pages 1, 2, \& 3)
- C-3.12: Annualized Depreciation Expense
- C-3.13: Depreciation Rate Adjustments
- C-3.14: Federal and State Income Taxes
- C-3.25: Property Tax Calculation
- C-4: Adjusted Jurisdictional Income Taxes

The Staff Report filed on November 25, 2020, is intended to supersede and replace in its entirety the Staff Report filed on November 18, 2020.

## BEFORE

## THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Ohio Power Company for an Increase in Electric Distribution Rates

In the Matter of the Application of Ohio Power Company for Tariff Approval

In the Matter of the Application of Ohio Power Company for Approval to Change Accounting Methods
)
) Case No. 20-585-EL-AIR

Case No. 20-586-EL-ATA
)
)
) Case No. 20-587-EL-AAM

Sam Randazzo, Chairman
M. Beth Trombold, Commissioner

Lawrence K. Friedeman, Commissioner
Dennis P. Deters, Commissioner
Daniel R. Conway, Commissioner
To the Honorable Commission:
In accordance with the provisions of the Ohio Revised Code Section 4909.19, the Staff of the Public Utilities Commission of Ohio (Staff) has conducted its investigation in the above matter and hereby submits its findings to the Commissioners of the PUCO (Commission) in this Staff Report.

The Staff Report has been jointly prepared by the Staff's Rates and Analysis Department and Service Monitoring and Enforcement Department.

Copies of the Staff Report have been filed with the Docketing Division of the Public Utilities Commission of Ohio (PUCO) and served by certified mail upon the mayors of all affected municipalities and other public officials deemed representative of the service area affected by the application. A copy of this report has also been served upon the utility or its authorized representative. Interested parties are advised that written objections to any portion of the Staff Report must be filed within 30 days of the date of the filing of this
report, after which time the Commission will promptly set this matter for public hearing. Written notice of the time, place, and date of such hearing will be served upon all parties to the proceeding.

The Staff Report is intended to present for the Commission's consideration the results of the Staff's investigation. It does not purport to reflect the views of the Commission nor should any party to the proceeding consider the Commission as bound in any manner by the representations or recommendations. The Staff Report, however, is legally cognizable evidence upon which the Commission may rely in reaching its decision in this matter. (See Lindsey v. Pub. Until. Comm., 111 Ohio St. 6 (1924)).

Respectfully submitted,

PUCO Rates and Analysis Department
James SJurkenton
Tamara Turkenton
Director

## PUCO Service Monitoring and Enforcement Department



Robert Fadley
Director

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## BACKGROUND

The applicant, Ohio Power Company (AEP Ohio, Applicant, or the Company), is a subsidiary of American Electric Power and is the largest of its regional utility divisions. Headquartered in Gahanna, Ohio, with regulatory and external affairs offices in downtown Columbus, Ohio, AEP Ohio serves just over 1.5 million customers in 61 counties.

In Case No. 16-1852-EL-SSO, et al., the Public Utilities Commission of Ohio (PUCO or Commission) modified and approved a stipulation and recommendation (Stipulation) filed by AEP Ohio, Commission Staff (Staff), and numerous other signatory parties, which authorized the Company to implement an electric security plan (ESP) for the period of June 1, 2018, through May 31, 2024. ${ }^{1}$ Among the commitments in the Stipulation, AEP Ohio agreed to file a base distribution rate case by June 1, 2020. ${ }^{2}$

On April 9, 2020, AEP Ohio filed a motion to set a test period and date certain for its forthcoming application for an increase in its electric distribution rates. AEP Ohio proposed, pursuant to R.C. 4909.15(C) and Chapter II(A)(5)(a) of the Commission's standard filing requirements (SFR) set forth in Ohio Adm.Code 4901-7-01, Appendix A, to use the 12 months ending November 30, 2020, as the test year for the filing, and December 31, 2019, as the date certain for determining rate base.

On April 29, 2020, AEP Ohio filed a pre-filing notice of its intent to file an application for approval of an increase in its electric distribution rates, tariff modifications, and changes in accounting methods.

By its Entry on May 6, 2020, the Commission approved the requested test period and date certain.
On June 8, 2020, the Company filed its application to increase electric distribution rates. By entry dated July 29, 2020, the Commission ordered that the application be accepted as of June 8, 2020.

In its application, AEP Ohio calculated a revenue deficiency of $\$ 402,086,000$ associated with base distribution services. The total base distribution revenue requirement requested is $\$ 1,065,876,000$, which included rolling into base rates the remaining capital investments within the Distribution Investment Rider (DIR) and both the capital and operations and maintenance expenses associated with the Enhanced Service Reliability Rider. Additionally, the federal income tax reduction from the Tax Cuts and Jobs Act of 2018 will be included in base rates and not credited through the Tax Savings Credit Rider.

Accounting for the change in riders effected by new base rates, the net total revenue deficiency as calculated by the Company is $\$ 42,280,687$; however, the Company designed its base distribution rates, excluding miscellaneous charges, to increase by $\$ 39,233,971$. As a result, AEP Ohio's proposed rate calculations produce a total revenue increase, including miscellaneous charges, of \$36,187,919.

## Summary of Staff's Recommendations

As shown on Schedule A-1, the Staff of the PUCO (Staff) recommends a revenue requirement in the range of $\$ 901,428,666$ to $\$ 921,950,845$. This represents an increase of 36 percent to 39 percent over test year operating revenue. This determination is based on Staff's examination of the accounts and records of the

[^0]Applicant for the 12 months ending November 30, 2020, as summarized in this report, including schedules which incorporate Staff's recommended rate of return, rate base, and adjusted operating income.

## OPERATING INCOME AND RATE BASE

## Scope of Investigation

The scope of the investigation was to determine if the Applicant's filed exhibits concerning test year operating income, rate base and other data are reasonable for ratemaking purposes, and if the financial and statistical records supporting the data can be relied upon. Staff interviewed the Applicant's key management personnel and reviewed both internal and published financial reports to assure understanding of the Applicant's operations and organization. Staff's investigation of test year operating income and date certain rate base included a review of the Applicant's budgeting and forecasting techniques, verification of the operating revenue computation, and an examination of the Applicant's continuing property records. In addition, Staff verified the existence and used and useful nature of the assets through physical inspections. Staff performed other independent analyses it considered necessary.

The Applicant proposed various adjustments to operating income and rate base, as summarized on the Applicant's Schedules. Staff reviewed and analyzed the Applicant's proposed adjustments to operating income and rate base and traced them to supporting workpapers and source data. As a result of its review and analysis, Staff accepted some of the proposed adjustments, changed some of the Applicant's proposed adjustments using alternative approaches, and/or proposed new adjustments. Staff's adjustments make the test year operating income and date certain rate base consistent with sound regulatory accounting practices, more representative of normal operations and appropriate for ratemaking purposes.

The purpose of Staff's investigation was to develop financial data for ratemaking purposes; it was not intended to provide a basis for expressing an opinion on the financial statements of the Company as a whole. The following sections of this report summarize the results of Staff's investigation, which Staff believes are relevant to the determination of test year operating income and rate base. Staff presents these sections in the general order in which the schedules are presented at the end of this document.

## Revenue Requirement

Schedule A-1 presents Staff's determination of the Applicant's revenue requirement. Staff's recommended revenue increase to base distribution revenue is shown on Staff's Schedule A-1. This determination is based on the examination of the accounts and records of the Applicant for the twelve months ending November 30, 2020, the test year in this proceeding. The results of Staff's examination are summarized in this report, and the schedules that incorporate Staff's recommended rate of return, rate base, and adjusted test year operating income are included.

Staff removed PUCO and Ohio Consumers Counsel (OCC) assessment fees from the gross revenue conversion factor, as calculated on Staff's Schedule A-2. There is no direct, causal relationship between the revenues collected by a utility and the amount that company is assessed. Additionally, the Company already has PUCO and OCC assessment fees embedded in its test year expenses. Furthermore, Staff removed non-Ohio state income taxes from the gross revenue conversion factor calculation.

## RATE BASE

The rate base represents the Applicant's net investment in plant and other assets as of the date certain, December 31, 2019, which were used and useful in providing electric utility service to its customers and upon which its investors are entitled to the opportunity to receive a fair and reasonable rate of return.

Staff's analysis of the rate base is divided into plant-in-service, DIR, depreciation, construction work in progress, working capital, and other rate base items. A comparison of the rate base submitted by the Applicant and Staff's recommendation is shown on Schedule B-1. Schedules B-2 through B-7, provide additional support for Staff's rate base findings.

## Plant-In-Service

The plant-in-service, as presented by the Applicant, is the surviving original cost of the plant that is used and useful or projected to be used and useful as of the date certain, in providing electric utility service to its customers. As a result of Staff's investigation and review of the application, Staff recommends that adjustments be made to the Applicant's date certain plant investment for ratemaking purposes. These adjustments are identified below, summarized on Schedule B-2.2, and reflected in the calculation of jurisdiction plant-in-service figures on Schedule B-2.1.

## Prior Distribution Rate Case Adjustments

The Company did not reflect in the date certain balances of plant-in-service various adjustments that were made in prior rate cases. The total of adjustments results in a lump sum reduction of $\$ 25,138,000$. These adjustments are shown on Schedule B-2.2.

## FERC Account 361 Adjustment

During Staff's review, the Company acknowledged an accrual was reversed incorrectly in the Company's system. Therefore, Staff made an adjustment to correct this error. The adjustment results in a reduction of $\$ 504,884$ to Account 361, as shown on Schedule B-2.2.

## gridSMART Electric Exclusions

Both the Applicant and the Staff adjusted test year plant-in-service gridSMART Phase 2 assets recovered through AEP Ohio's Commission approved gridSMART Phase 2 Rider capital from rate base. The adjustment is $\$ 195,469,487$, as shown on Schedule B-2.2.

## Fitness Equipment Adjustment

Staff has excluded the employee fitness equipment since these facilities are not used and useful in the provision of utility service. This adjustment reduces rate base by $\$ 770,835$ and is shown on Schedule B-

## 2.2.

## Electric Vehicles Charging Stations Adjustment

During its review, Staff found that the Company currently has electric vehicle (EV) chargers installed in four locations that can only be accessed by AEP Ohio personnel. The EV charging stations are, in part, used to charge personal vehicles and the Company has stated in a data request that they have no way of tracking the personal use of the chargers. Staff considers the personal use of these chargers as an employee perk that does not go toward providing utility service to the customer. Therefore, Staff has
disallowed recovery of the EV chargers. This adjustment reduces rate base by $\$ 355,269$ and is shown on Schedule B-2.2.

## Capitalized Incentive Pay Adjustment

As part of the plant-in-service investigation, Staff reviewed capitalized incentive compensation included in Federal Energy Regulatory Commission (FERC) Account 303, Miscellaneous Intangible Plant. Staff avers that the support provided by the Company was insufficient to warrant inclusion in rate base. Staff recommends $\$ 11,520$ in adjustments related to the specific transactions for capitalized incentives for which Staff requested additional support during its investigation as shown on Schedule B-2.2.

Staff recommends that starting with the Commission's Opinion and Order in this case and going forward, the Company exclude from rate base all capitalized incentive compensation.

## Intangible Plant Adjustment

During its review of Intangible Plant, Staff identified multiple expenditures for catered meals provided at Company meetings as well as entertainment-related expenditures, such as the bulk purchase of 300 movie tickets and tickets to a Columbus Blue Jackets game. Additionally, the Company advised Staff that two transactions included amounts that were incorrectly capitalized. Finally, Staff adjusted one transaction consisting of pens and drink tumblers inscribed with the Company's logo, as Staff found it to be inappropriate to include in rate base. Combining all adjustments results in a recommended reduction to FERC Account 303, Miscellaneous Intangible Plant of $\$ 7,899$, as shown on Schedule B-2.2.

## Distribution Investment Rider

Per the Commission Order in Case No. 16-1852-EL-SSO, upon approval of AEP Ohio's next rate case all plant-in-service being recovered through the DIR as of the date certain will be rolled into rate base and the annual revenue caps for the DIR will be set in a manner consistent with the new rate base. ${ }^{3}$ In this Application, AEP Ohio proposed revenue caps for 2021 through 2024 and included several modifications to the DIR calculation.

## AEP Ohio Proposed Changes

The Company proposes annual revenue caps of $\$ 71$ million in 2021, $\$ 117$ million in 2022 , $\$ 164$ million in 2023, and $\$ 211$ million in 2024. AEP Ohio also proposes that there be a proration of $1 / 12$ of the 2021 annual revenue cap which commences whenever the rate case rates go into effect in 2021. AEP Ohio states that its proposed annual revenue caps are based upon its projected capital needs. It also states that its proposed annual revenue caps do not include an adjustment for the normalized excess accumulated deferred income taxes (EDIT); that the estimated increase in plant based on the normalized EDIT is already included in its revenue cap calculation and as such it is no longer necessary to exclude that calculation from the cap balance. AEP Ohio states that if the revenue caps are not approved as proposed, the Company would need to continue to exclude the normalized EDIT from the revenue cap calculation.

AEP Ohio proposes to update the DIR calculation with the carry charge component rates to those proposed in its Application.

AEP Ohio also proposes several changes to the calculation of the DIR. First, AEP Ohio proposes the elimination of the offset of the capital revenue requirement for gridSMART Phase I and the monies

[^1]collected through the Enhanced Service Reliability Rider (ESRR) and the Energy Efficiency \& Peak Demand Reduction Rider (EE/PDR) Rider collections. AEP Ohio states that gridSMART Phase I assets will be included in rate base and therefore will no longer be a necessary offset. AEP Ohio also posits that the costs included in the ESRR will be only operations and maintenance (O\&M) expenses and as such are not relevant to the DIR. AEP Ohio states that any vegetation capital costs, to the extent there are any, will be included in the DIR.

Although not addressed in the testimony of AEP Ohio witness Moore, her attached proposed DIR calculation sheet, Exhibit AEM-3, page 1 of 2, shows no offsets for "Plant Held for Future Use" and the "Revenue Offset Provided in Distribution Stipulation." Therefore, Staff's assumption is that the Company has also proposed to remove the offset for Pant Held for Future use and the revenue offset caused by the previous base rate case.

AEP Ohio proposed an adjustment for the Theoretical Reserve Amortization. AEP Ohio states that the test year of the base case includes the amortization of a current theoretical reserve which has the impact of lowering depreciation expense during the test year. Therefore, upon the expiration of the theoretical reserve provided for in Case No. 16-1852-EL-SSO, the amortization amount included in the test year, $\$ 23,726,170$ (as found in Appendix A of the Stipulation filed in Case No. 16-1852-EL-SSO) will be included as additional revenue requirement through the DIR. After the test year in this case is established, the theoretical reserve amortization will increase by $\$ 21,451,689$ beginning on June 1, 2021 and ending May 31,2023 . Once the remaining three years of the meter amortization is complete the Company is proposing to increase the DIR revenue requirement by \$23,726,170 in June of 2023.

Lastly, the Company has proposed a separate revenue cap calculation section which it states is needed to avoid an under recovery of its DIR revenue requirement, up to the authorized annual revenue cap. AEP Ohio proposes a separate cap calculation section that is not linked in the DIR workbook that can be analyzed during the quarterly filings for accuracy.

## Staff Recommendations

Staff will address the numerous proposed changes to the DIR in the order in which they have been summarized above.

Staff recommends the Commission not adopt AEP Ohio's proposed annual revenue caps. Staff recommends that the Commission adopt the following annual revenue caps: $\$ 57$ million for 2021 (prorated for whenever new base distribution rates go into effect), $\$ 78$ million for $2022, \$ 96$ million for 2023, $\$ 46$ million for the first five months of 2024, and $\$ 0$ after May 31, 2024 (the end date of AEP Ohio's current SSO). First, Staff notes that AEP Ohio's recommended revenue cap percentage of base distribution rates is in excess of the Commission's previously stated maximum growth rate of $3 \%$ to $4 \%$. Second, Staff's DIR revenue cap recommendation is based upon its assessment that AEP Ohio has not demonstrated through the Application or its responses to data requests how the Asset Renewal and Reliability programs have maintained or improved reliability. Without a quantifiable demonstration of past or future benefits to customers, Staff recommends reducing these programs to zero. Staff recommends continuing the nondiscretionary programs (Major Projects, Customer, City and State Requirements and other work associated with the integration of new service to new residential and commercial customers, including the necessary transformers and meters, as well as outage restoration, and inspections). Because Staff's annual revenue caps are based on AEP Ohio's desired capital spend, albeit not the entirety of its proposed
distribution capital expenditures, there does not need to be an exclusion of the normalized EDIT from the cap calculation.

Staff recommends the DIR calculation with the carry charge rate components proposed by Staff in this Staff Report.

Staff recommends that the Commission continue the general requirement for the removal of all capital costs that are recovered elsewhere by AEP Ohio and that those capital costs be separately detailed in the quarterly DIR filings so that it can be confirmed that they are being removed from the DIR revenue requirement.

AEP Ohio proposes the elimination of the EE/PDR as an offset to the DIR calculation. Staff does not oppose this change to the DIR calculation so long as the EE/PDR is terminated by the Commission. To the extent the EE/PDR Rider is not terminated, or capital costs associated with these type of expenditures are allowed to be recovered by the Company in some manner (other than in rate base established in this case), any capital expenditures regarding these types of costs, should be required to be explicitly reported in the DIR calculation as an offset and the expenditures detailed in supporting documentation.

AEP Ohio also proposes the removal of the vegetation management rider offset to the DIR calculation as no capital costs are to be recovered in its proposed vegetation management rider. AEP Ohio states that capital vegetation costs, if any, would be recovered in the DIR. Staff is not opposed to this proposal to eliminate the vegetation management offset to the DIR revenue requirement so long as the vegetation rider is recovering only O\&M expenditures. However, in order to ensure that Staff can meaningfully track any vegetation capital costs that may be proposed for recovery in the DIR, Staff recommends that all capitalized vegetation activity be separately reported in the DIR quarterly filings so that Staff can enforce the parameters around which capital costs are being proposed for recovery in the DIR. As of the order in this case, pursuant to the Stipulation and Commission Order in Case No $18-230-E L-R D R,{ }^{4}$ the only vegetation capital costs that may be included for recovery in the DIR are those associated with the establishment of right of way (ROW) or the establishment of an expanded ROW.

AEP Ohio also proposes the removal of the gridSMART Phase 1 recovery offset in the DIR because gridSMART Phase 1 assets are being included in base rates. Staff does not oppose this recommendation. With the elimination of the gridSMART Phase 1 assets from the DIR, only distribution costs as recorded in Accounts 360 to 374 are eligible for recovery in the DIR.

The Company has also proposed the elimination of Plant Held for Future Use and the revenue offset from the previous distribution rate case. Staff does not oppose the removal of the revenue offset generated by the previous distribution rate case. However, Staff does oppose the proposed elimination of the Plant Held for Future Use offset. The DIR is specifically limited to recovering only plant that is in service.

AEP Ohio proposes to add an adjustment for the theoretical adjustment provided for in Case No. 16-1852-EL-SSO. ${ }^{5}$ Staff does not oppose AEP Ohio's proposed change to the DIR calculation. The Company's

[^2]proposal acknowledges that the test year of the base case includes the amortization of the current theoretical reserve. It also addresses the commitment made in Case No. 16-1852-EL-SSO regarding the need to amortize the remainder of the theoretical reserve provided for in that case. The annual meter amortization of $\$ 21,451,689$ provided for in Case No. 16-1852-EL-SSO will be an offset to the DIR annual revenue requirement until it is completed. Thereafter, beginning June 2023, due to the inclusion of the theoretical reserve amortization in rate base, there will be a charge to the DIR revenue requirement of $\$ 23,726,170$ beginning June 1, 2023. The Staff recommends that the Commission direct AEP Ohio to continue to provide a theoretical reserve study annually.

There are several concerns associated with AEP Ohio's annual revenue cap verification concept that lead Staff to recommend against the Commission's adoption of AEP Ohio's proposal. First, the Company indicates that the proposed separate cap calculation work sheet is not linked to the DIR and is only meant to avoid unintended under-recoveries. However, the results of the work sheet do impact the DIR calculation. As shown on Witness Moore's Exhibit AEM-3, page 1 of 2, a substantive change in the DIR calculation would be occurring because the result of the annual verification work sheet would take the line item place of the previous annual revenue cap control. In addition, AEP Ohio does not explain how it is to effectuate this calculation. The Company indicates that it would adjust its revenue requirement in the last three months of the year to exactly generate the DIR revenue requirement. From Staff's examination of AEP Ohio's explanation of how its proposal would be effectuated, AEP Ohio's proposal does not appear to comport with the filing dates, effective dates, or dates certain associated with the DIR. Such mechanical issues may effectively cause an over recovery of the DIR if the proposed cap calculation work sheet is approved. Furthermore, the DIR calculation already contains mechanisms to address under recoveries. Finally, the Order in Case No. 16-1852-EL-SSO indicated that the annual revenue caps would be re-established in accordance with the new rate base, not that the DIR mechanism itself would be changed. Because a separate calculation work sheet is not "linked" to the current DIR calculation work sheets does not mean that a substantive change to the calculation of the DIR has not occurred. While Staff has not objected to several of AEP Ohio's other proposed changes to the DIR, it is because those changes have been necessitated due to the adjustments in the rate case itself. Nothing occurring as a result of the rate case has generated a need for this proposed changed to the DIR calculation.

## Depreciation

Depreciation is the process which distributes the original cost of depreciation assets, adjusted for net salvage, over the normal life of the property in a systematic and rational manner. Staff's investigation of depreciation is segregated into two areas: (1) Depreciation Reserve, and (2) Depreciation Accrual Rates and Depreciation Expense. Each of these areas is discussed in detail in the following sections.

## Depreciation Reserve

The Applicant maintains its depreciation reserve, by account, on a total company basis. In order to determine if the Applicant's booked reserve for depreciation is proper and adequate, Staff compared the Applicant's book reserve with a calculated theoretical reserve, as a guide to whether past accrual rate calculations have been appropriate. Staff compared the Applicant's book reserve level with a calculated theoretical reserve, based on the accrual rates discussed below, and the Applicant's December 31, 2019
projected plant balances. Staff determined that the level of the overall booked reserve is in close agreement with the theoretical reserve calculation.

Staff adjusted the reserve to exclude the reserve associated with adjustments in the Plant in Service section, as discussed above. These adjustments are shown on Schedule B-3.1.

Staff recommends that the jurisdictional reserve for depreciation, as adjusted by Staff and shown on Schedule B-3, is proper and adequate and should be used for the purposes of this proceeding.

## Depreciation Accrual Rates and Depreciation Expense

The Applicant's current depreciation accrual rates were prescribed by the Commission in Case No. 13-2385-EL-SSO.

The Applicant filed a depreciation study for the Company's distribution and general plant accounts. Staff conducted an independent analysis of the depreciation study provided by the Applicant. Staff's recommended accrual rates are shown on Schedule B-3.2. Staff recommends that the Applicant be ordered to use the accrual rates shown on Schedule B-3.2 for book depreciation purposes, effective concurrently with the customer rates from this proceeding.

Staff has long maintained that depreciation accrual rates should be thoroughly reviewed every three to five years. Staff, therefore, recommends that within five years after the Commission's Opinion and Order in this proceeding, the Applicant's accrual rates be reviewed for all its plant accounts.

The Staff's calculation of depreciation expense is based on the adjusted jurisdictional plant in service balances at date certain and the accrual rates discussed above, is shown on Schedule B-3.2

## Construction Work In Progress (CWIP)

The Applicant did not request an allowance for CWIP in its filing and Staff, as shown on Schedule B-4, did not recommend an allowance.

## Working Capital

Working capital has been generally defined as the average amount of capital provided by investors in the Company, over and above the investments in plant and other specifically identified rate base items, to bridge the gap between the time that expenditures are required to provide service and the time collections are received for the service The Applicant requested a working capital allowance of $\$ 15,329,641$ based on a thirteen-month average balance for materials \& supplies and prepayments. The Applicant did not prepare a lead/lag study for this case; therefore, Staff cannot recommend a working capital allowance, which is consistent with Staff's treatment in prior cases. ${ }^{6}$

[^3]
## Other Rate Base Items

In its Application, the Company requested the inclusion in rate base of the jurisdictional balance of $\$ 165,161,117$ attributable to its prepaid pension asset. A prepaid pension asset represents the amount by which cumulative contributions to the pension plan exceed the cumulative pension cost. As part of its investigation, Staff requested that the Company quantify the effects on pension expense associated with overfunding the plan given that the investment gains on pension plan assets reduce pension expense. ${ }^{7}$ The Company did not quantify the reduction in pension expense attributable to the excess contributions. Additionally, Staff requested that the Company provide support for the direct and indirect benefits resulting from overfunding the pension plan. Staff avers that the benefits identified, in aggregate, did not sufficiently justify the inclusion of the prepaid pension asset in rate base, upon which the Company would earn a return. Therefore, Staff removed the prepaid pension asset from Other Rate Base Items, reducing rate base by $\$ 165,161,117$, as shown on Schedule B-6.

## Allocations

Staff reviewed the Company's jurisdictional allocation factors which were based on the relationship reflected in the functional books and records for the twelve months ending December 31, 2019. Staff examined the Company's most recent Cost Allocation Manual, the Company's internal allocation audit reports, and the FERC's most recent audit report on the Company's internal allocations. Staff does not recommend any adjustments to Schedule B-7.

[^4]
## OPERATING INCOME

The Applicant's test year operating income combined one month of actual data for the period December 1, 2019 through December 31, 2019, with eleven months of forecasted data for the period January 1, 2020 through November 30, 2020. Staff conducted a review of the Applicant's budgeting process to ensure that the forecasted data used in formulating the test year operating income is commensurate with the projections contained in the Applicant's control budget. Staff verified that the test year projected figures comport with the control budget and, as described in the subsequent section on Current Adjustments, Staff adjusted the Applicant's test year operating income as required to render it an appropriate basis for setting rates.

Staff's pro forma operating income is Staff's adjusted test year operating income modified to reflect the Applicant's proposed increase in revenues and the associated increases in commercial activities taxes, state and municipal taxes, and federal income taxes. Staff's pro forma operating income also includes the Applicant's proposed increase in other revenues related to reconnection charges.

Schedules C-1 and C-2 present Staff's determination of operating income. The calculations, methodologies, and rationale used to develop Staff's adjusted pro forma operating income are detailed on Schedules A1.1, C-1, C-3.1 through C-3.33, and C-4.

## Pro Forma Adjustments

Schedule C-1 sets forth the Applicant's proposed increase in operating revenues and affected expenses that include commercial activities taxes, state and municipal taxes, and federal income taxes. The increase in revenues is the combined result of the increase in base revenues created by the Applicant's proposed tariffs, and an increase for reconnection charges.

## Current Adjustments

## Universal Service Fund

Staff accepted the Company's methodology to compute adjusted test year operating income to eliminate revenues and corresponding expenses for the Universal Service Fund Rider in order to conform to standard practice of removing rider revenues and expenses from base rates. This flow through adjustment increases test year operating income by $\$ 24,902,513$, as shown on Schedule C-3.1.

## kWh Tax Rider

Staff accepted the Company's methodology to compute adjusted test year operating income to eliminate revenues and corresponding expenses for the kWh Tax Rider in order to conform to standard practice of removing rider revenues and expenses from base rates. This flow through adjustment increases test year operating income by $\$ 546,164$, as shown on Schedule C-3.2.

## Energy Efficiency \& Peak Demand Reduction Rider

Staff accepted the Company's methodology to compute adjusted test year operating income to eliminate revenues and corresponding expenses for the EE/PDR Rider in order to conform to standard practice of removing rider revenues and expenses from base rates. This flow through adjustment decreases test year operating income by $\$ 216,120$, as shown on Schedule C-3.3.

Staff has accepted the Company's proposal to remove these expenses, however, this does not guarantee recovery through the EE/PDR rider. The prudency, validity, and audit of these expenses will be addressed through the EE/PDR rider true-up mechanism.

## Economic Development Recovery Rider

Staff accepted the Company's methodology to compute adjusted test year operating income to eliminate revenues and corresponding expenses for the Economic Development Recovery (EDR) Rider in order to conform to standard practice of removing rider revenues and expenses from base rates. This flow through adjustment increases test year operating income by $\$ 4,371,319$, as shown on Schedule C-3.4.

## Enhanced Service Reliability Rider

Staff accepted the Company's methodology in which operating income was adjusted to remove the effects of the ESRR using one month actual and eleven months projected data. These adjustments are shown on schedule C-3.5.

## Adjust Incentive Compensation

Staff adjusted test year incentive compensation by removing all adjustments on this schedule. Staff removed all incentive compensation in Schedule C-3.7 and therefore any adjustments in this section were not necessary.

## Annualize Labor \& Payroll Taxes

Staff adjusted test year payroll expense by annualizing direct AEP Ohio's labor expense based on actual employee levels and average hourly rates as of August 2020. Staff removed incentive compensation based on earnings per share (EPS) and restricted stock for both AEP Ohio's labor expense and AEP service company employees. Staff's adjustments reduce the test year labor expense by $\$ 17,576,390$, as shown on Schedule C-3.7.

Staff adjusted test year payroll tax expenses by annualizing actual payroll tax as of August 2020. Staff's adjustment reduces the test year payroll tax expenses by $\$ 1,428,303$, as shown on Schedule C-3.7.

## Energy Efficiency \& Peak Demand Reduction Labor

As proposed in the Demand Side Management (DSM) Plan, the Company proposed to include an additional $\$ 5,141,732$ for internal labor costs in the test year operating income, of which, approximately $\$ 4.2$ million is estimated to support the DSM Plan. However, Staff disagrees with the Company's inclusion of energy efficiency labor, DSM labor, and any other miscellaneous expenses included in the test year and has removed $\$ 5,141,732$ from the test year operating income, as shown on Schedule C-3.8.

## Annualize Pension Expense

Staff adjusted test year pension expenses by annualizing actual pension expenses as of August 2020. Staff's adjustment reduces the test year pension expenses by $\$ 134,674$, as shown on Schedule C-3.9.

## Annualize OPEB Expense

Staff adjusted test year OPEB expenses by annualizing actual OPEB expenses as of August 2020. Staff's adjustment reduces the test year OPEB expenses by $\$ 2,927,453$, as shown on Schedule C-3.10.

## Amortize Rate Case Expense

Both Staff and the Applicant adjusted rate case expense to reflect a five-year amortization period. The adjustment increases test year expenses by $\$ 65,000$, as shown on Schedule C-3.11.

Staff recommends that the Commission review the most recent updated information regarding the Applicant's rate case expense before issuing its final Opinion and Order. The Applicant should submit this information as a late filed exhibit.

## Annualize Depreciation Expense

Staff adjusted the depreciation expense to reflect Staff's recommended depreciable plant in service as of the date certain and Staff's recommended accrual rates. This adjustment is presented on Schedule C-3.12, with the supporting calculations shown on Schedule B-3.2. Further discussion on depreciation can be found in the Rate Base section of this report.

## Depreciation Rate Adjustment

Both Staff and the Applicant adjusted depreciation expense at current approved rates to proposed depreciation study rates based on date certain plant balances as of December 31, 2019. This adjustment is presented on Schedule C-3.13, with the supporting calculations shown on Schedule B-3.2. Further discussion on depreciation can be found in the Rate Base section of this report.

## Federal \& State Income Taxes

Staff adjusted income tax expense on Schedule C-3.14 in order to reconcile the test year income tax expense with the income tax expense calculated on Schedule C-4. Staff's adjustment reduces test year operating expenses by $\$ 65,215,334$, as shown on Schedule C-3.14.

## gridSMART Rider

Staff increased the amount removed from test year operating income in order to eliminate the effect of the gridSMART rider. Staff's adjustment reflects removal of severance expense currently being recovered through the gridSMART rider, reduces test year expenses by $\$ 71,880$, as shown on Schedule C-3.15.

## Distribution Investment Rider

Staff accepted the Company's methodology to compute adjusted test year operating income to eliminate revenues and corresponding expenses for the DIR in order to conform to standard practice of removing rider revenues and expenses from base rates. This flow through adjustment decreases test year operating income by $\$ 242,341,365$, as shown on Schedule C-3.16.

## Remove Effect of Pilot Throughput Balancing Adjustment Rider

The Company and Staff adjusted distribution test year revenues in order to remove the effect of the Pilot Throughput Balancing Adjustment Rider (PTBAR) amortization and deferral. This adjustment decreases test year operating income by $\$ 13,639,000$, as shown on Schedule C-3.17.

## Storm Expense Adjustment

Staff and the Applicant utilized a five-year average to adjust the test year expense related to major storms in Account 593. Staff's adjustment reduces test year expenses by $\$ 1,779,322$, as shown on Schedule C3.18 .

Regarding non-major storm expenses, the Applicant proposes a test year expense level of \$2.291 million, which is based on a five-year average of operation and maintenance costs attributable to non-major
storms. In its Application, the Company has requested to defer as a regulatory asset any costs for which the annual spending exceeds this amount. Staff recommends denial of this proposal. Staff finds it inappropriate to preemptively grant broad deferral authority, and instead recommends that the Company file an Application to Change Accounting Methods (AAM) in any year the Company finds it necessary to request deferral of non-major storm expenses in excess of the amount included in the test year.

## Remove Effects of the Tax Savings Credit Rider

Both Staff and the Applicant adjusted test year income tax expense to remove the effects of the Tax Savings Credit Rider. The adjustment reduces test year expenses by $\$ 33,946,004$, as shown on Schedule C-3.19.

## Smart City Rider

Both Staff and the Applicant adjusted test year income revenue and expense to remove the effects of the Smart City Rider. The adjustment reduces test year expenses by $\$ 5,159,000$, as shown on Schedule C-3.20.

## To Include Credit Card Processing Fees in the Test Year

The Company adjusted distribution test year expenses to include credit card processing fees of $\$ 3,102,000$ in the test year. The Company further proposed to include any additional fees above the amount embedded in base rates to be included in the Bad Debt Rider. Staff does not support the inclusion of credit card processing fees within base rates or within the uncollectible expense rider. Staff's adjustment to exclude credit card processing fees decreases test year operating expenses by $\$ 3,102,000$, as shown on Schedule C-3.21.

## Demand Side Management

The Company has requested to include $\$ 40,261,000$ in the test year to include forecasted customer assistance and supervision expenses associated with the implementation of the DSM Plan. This amount is derived from 12-months of forecasted DSM Plan program costs in the amount of $\$ 36.6$ million and a ten percent administration fee in the amount of $\$ 3.66$ million, which is further described below. Staff rejects including the DSM Plan in base rates and has removed $\$ 40,261,000$ from the test year operating income, as shown on Schedule C-3.22.

As explained in the filing, the costs associated with the DSM Plan and administration fee would be included in the test year and incorporated into the distribution rates. However, if the Company spends less than the budgeted program costs for the year, then the difference would be credited to the EDR rider.

The Company also proposed a program administration fee associated with the DSM Plan, which would allow the Company to earn $10 \%$ of the program year spend, if the spending was cost-effective at the program level and overall, using the Resource Value Test ("RVT") test. ${ }^{8}$ The RVT value can be calculated by taking the sum of the present values of both the avoided costs and non-energy benefits and dividing by the sum of the present values of both the administrative costs and incentive costs. Finally, for eligible EE resources, the Company plans to bid those resources into PJM Interconnection, L.L.C.'s (PJM) base residual auction (BRA) and use $80 \%$ of the revenues to increase the DSM plan budget or offset expenses and retain the other $20 \%$.

[^5]Staff recommends that the Commission deny the Company's request to include the DSM plan costs on Schedule C-3.22, as proposed, and recommends an adjustment to decrease the test year expenses by $\$ 40,261,000$ to eliminate DSM Plan expenses. While Staff is generally supportive of energy efficiency and demand side management programs that furthers state policies as defined in R.C. 4928.02, there are concerns about the proposal in the current application. Specifically, Staff believes that the framework for the DSM plan puts unnecessary risk on rate payers for several reasons, which include, but are not limited to the following:

1. The Company would be guaranteed recovery of these expenses through distribution rates until the next rate case. However, the ability to credit (refund) customers for reduced expenses, (i.e. if the Company is under budget or chooses to eliminate programs all together), is contingent upon the availability of the EDR.
2. There is current legislative uncertainty surrounding the potential repeal of H.B. 6, which seems to make it impractical to include an EE/PDR investment of this magnitude in base rates, at this time.

Regardless of the cost recovery structure, Staff recommends that the Commission eliminate the proposed $\$ 3.66$ million included for the administration fee. The Commission has recently provided guidance that shared savings mechanisms are not necessary because there's no statutory basis and there is no need to incentivize the Company to implement these programs to ensure reliability. ${ }^{9}$ Further, the DSM plan is projected to achieve an RVT value (the basis for the proposed administration fee) of 3.0 - meaning that the benefits are forecasted to be three times greater than the costs - which seems to indicate that it is relatively easy for the Company to achieve cost-effectiveness, without additional financial motivation.

In Staff's opinion, the same Entry addressing shared savings mechanisms also suggests that the retail market should be offering EE/DSM programs, so that customers can choose their desired products and services. Alternatively, a utility could offer programs for customers who elect to stay on the standard service offer, for which the associated costs could be recovered on a by-passable basis. The Company has not demonstrated that the retail market is unable to offer the types of products and services include in the current Application.

Finally, the Company has not demonstrated enough rationale to justify retaining twenty percent of PJM revenues related to bidding DSM plan resources into PJM's base residual auction. The Company stated that retaining these revenues would be necessary to offset risks associated with participating in the market, however, the Company has not incurred any financial penalties for non-performance, to date. ${ }^{10}$

## Communication Plan Expense

As part of the Application, the Company proposed to recover as part of test year expenses, an additional \$1 million for communication with customers for reliability, safety, service, bill understanding and general customer communications (Communication Plan). The $\$ 1$ million is incremental to the $\$ 452,000$ currently included in the test year for funding to support communications. The Communication Plan includes funding for an external contractor who assists with creative design, video production/editing, research, media training, direct marketing and special event coordination. The Company seeks to increase the use

[^6]of external contractors in its outreach and awareness programs. The Company's new request is to fund third party purchased content, a monthly newsletter managed by a third party, community outreach, support for a live line trailer exhibit, customer satisfaction surveys, a blog, focus groups, roundtables for major accounts, and more third party support contracts.

Staff recommends that the additional \$1 million for third party outreach activities and social media be rejected. Although many of the proposed outreach activities may provide customers with useful information, none of the activities are necessary for the provision of electricity or to satisfy a regulatory requirement. This adjustment decreases test year operating expenses by $\$ 1,000,000$, as shown on Schedule C-3.23.

## Adjust Miscellaneous Bad Debt Expense

The Company and Staff adjusted bad debt expense based on the 12-month rolling average write-offs. This adjustment increases test year operating expenses by $\$ 789,014$, as shown on Schedule C-3.24.

## Property Taxes

Staff adjusted property tax expense to reflect the latest known actual rates and valuation percentages and applied those rates and percentages to plant in service as of date certain. In addition, Staff removed West Virginia property tax expense that was included in the applicant's test year property tax expense. Staff's adjustment decreases property tax expense by $\$ 16,731,751$ as shown on Schedule C-3.25.

## Revenue Adjustment

Both the Staff and the Applicant adjusted base revenues to eliminate all rider revenue. The Staff and the Applicant also adjusted test year base revenues to the amounts calculated on Schedule E-4.

In addition, the Staff adjusted test year revenue to reflect actual customer bills for the months of the test year, January 1, 2020, through July 31, 2020. Staff adjusted the customer bills for all tariffs except for outdoor and street lighting. Staff recommends updating customer bills to actuals because of the PTBAR and how the PTBAR is calculated in future years following a rate case. Future PTBAR filings will compare test year customer bills to actual customer bills and if customer bills are not updated in the current base rate case the initial PTBAR filling will be under recovered. Staff's adjustments increase test year operating revenue by $\$ 923,544$, as shown on Schedule C-3.26.

## Miscellaneous Revenue Adjustment

Staff adjusted the test year miscellaneous revenue in order to account for the Company's proposed changes to miscellaneous charges as reflected in WP E-1 a-h and Staff's projected increases or decreases in the number of instances related to various cost-based services the utilities provide. Staff's adjustments decrease test year operating revenue by $\$ 3,399,650$, as shown on Schedule C-3.27.

## Residential Late Fees

Staff adjusted the test year miscellaneous revenues in order to recognize residential late payment revenue within the test year. The Company proposed including all residential late payment revenue the uncollectible expense rider in lieu of building a forecasted amount into base rates. Staff's adjustment increases test year operating revenue by $\$ 3,160,407$, as shown on Schedule C-3.28.

## Out of Period Expense Adjustment

Staff adjusted rate case expenses to remove costs that were incurred outside of the test year period. The adjustment decreases test year expenses by $\$ 4,083,082$, as shown on Schedule C-3.29.

## Promotional Advertising

During its investigation, Staff identified expenses for advertising that is promotional in nature. Since the advertising is not of an informational or instructional character that is geared toward educating ratepayers, Staff determined that the expenses are not appropriate for recovery. Therefore, Staff removed the costs from test year expenses. The adjustment decreases test year expenses by $\$ 131,711$, as shown on Schedule C-3.30.

## Miscellaneous Expense Adjustment

During its investigation, Staff identified various expenses that it determined were inappropriate to include for ratemaking purposes. Therefore, Staff removed these items from the test year. The adjustment decreases expenses by $\$ 14,172$, as shown on Schedule C-3.31.

## Pole Attachment Rates

Staff adjusted operating revenues to reflect Staff's recommended pole attachment rate consistent with Staff's recommendation in the Rates and Tariff section of this report. Staff's adjustment decreases test year revenue by $\$ 144,837$, as shown on Schedule C-3.32.

## Enhanced Service Reliability Rider Baseline

Staff adjusted test year operating expenses in order to shift a portion of vegetation management expenses from base rates into the Company's ESRR. Staff's adjustment decreases test year operating expenses by $\$ 10,000,000$, as described in the Rates and Tariff section of the Staff Report and as shown on Schedule C3.33 .

## Jurisdictional Income Taxes

On Schedule C-4, Staff adjusted federal, state, and local taxes based on the method typically used in rate cases. This method is a formulaic approach in which current tax expense is calculated based on test year revenues and expenses, and deferred tax expense is calculated based on temporary differences in the test year related to book/tax timing differences. Additionally, in accordance with the method typically used in rate cases, Staff calculated deductible interest expense as the weighted cost of debt multiplied by rate base. Staff further adjusted tax expense remove non-Ohio income taxes from the calculation of state and local tax expense.

Staff adjusted income tax expense on Schedule C-3.14 in order to reconcile the test year income tax expense with the income tax expense calculated on Schedule C-4.

## RATE OF RETURN

The Staff recommends a rate of return in the range of 7.15 percent and 7.70 percent. The recommended rate of return was developed using a cost of capital approach which reflects a market-derived cost of equity and AEP Ohio's actual cost of debt.

## Capital Structure

AEP Ohio is a wholly owned subsidiary of AEP, Inc., which is a utility holding company that is publicly traded. Staff used the capital structure of AEP Ohio which is 45.57 percent debt and 54.43 percent equity.

## Cost of Long-Term Debt

Staff used the embedded cost of long-term debt of AEP Ohio as of December 31, 2019, as shown on the Applicant's Schedule D-3A. AEP Ohio's embedded cost of long-term debt is 5.22 percent.

## Cost of Equity

Staff used Value Line, Inc.'s (Value Line) Stock Screener tool to compile a list of comparable companies to use as a proxy group for the purpose of calculating a cost of equity estimate. Staff's initial criteria for the Stock Screener was industry type. Value Line provided a group of 39 companies that met the criteria of being an electric utility. Staff compiled a Safety Rank ${ }^{11}$, Financial Strength Rating ${ }^{12}$, and beta ${ }^{13}$ values from Value Line for each of the 39 companies designated as electric utilities. Staff then considered credit ratings from Moody's Investors Service, Inc. and Standard and Poor's Financial Services LLC. Staff also considered market capitalization for the peer group when making final selections. As shown in the table below, in addition to AEP, Inc., Staff selected NextEra Energy, Inc., Consolidated Edison, Inc., WEC Energy Group, and Xcel Energy, Inc. to use as the peer group (Peer Group).

| Company <br> Name | Ticker | Industry | Safety ${ }^{\text {™ }}$ | Financial <br> Strength <br> Rating | Value Line Beta | Moody's | S\&P | Market Cap as of 9/9/20 (\$ Bil) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NextEra Energy, Inc. | NEE | Electric Utilities | 1 | A+ | 0.85 | Baa1 | A- | \$ 140.358 |
| AEP, Inc. | AEP | Electric Utilities | 1 | A+ | 0.75 | Baa2 | A- | \$ 40.482 |
| Consolidated Edison, Inc. | ED | Electric Utilities | 1 | A+ | 0.75 | Baa2 | A- | \$ 24.662 |
| WEC Energy Group | WEC | Electric Utilities | 1 | A+ | 0.8 | Baa1 | A- | \$ 31.137 |
| Xcel Energy, Inc. | XEL | Electric Utilities | 1 | A+ | 0.75 | Baa1 | A- | \$ 37.347 |

[^7]Staff employed a cost of equity estimate for the Peer Group that used the capital asset pricing model (CAPM) and the discounted cash flow (DCF) model. In addition, Staff reviewed recent experienced returns by the utilities industry and recently authorized returns for electric utilities by other utility commissions.

Staff used the following formula to calculate the CAPM cost of common equity estimate:

$$
\text { CAPM }=\text { Risk-Free Rate }+ \text { Beta }{ }^{*} \text { (Equity Risk Premium) }
$$

In making this calculation, Staff used a composite beta of 0.78 , which was an average of the betas sourced from Value Line for the Peer Group. In calculating an Equity Risk Premium, Staff reviewed annual market returns associated with the S\&P 500 index and the corresponding average long-term composite yield for U.S. Treasury Bonds for the past 30 years. For the time period between 1990 and 2019, the S\&P 500 provided an arithmetic average return of 11.47 percent. During the same period, long-term U.S. Treasury Bonds had an average yield of 4.95 percent. Accordingly, Staff calculates the equity risk premium to be 6.52 percent ( 11.47 percent less 4.95 percent). Due to the recent drop in yields for U.S. Treasuries to historically low levels, Staff chose to use a "normalized" risk-free rate of 2.5 percent as published and recommended by Duff and Phelps. ${ }^{14}$ The factors as detailed above produce the following calculation:

$$
7.59=2.50+(0.78 * 6.52)^{15}
$$

In calculating its DCF cost of common equity estimate for each company in the Peer Group, Staff used the average stock price, the sum of the last four quarterly dividends, and estimates of the expected growth rate of earnings. The average stock price was determined by averaging the adjusted daily closing price for the period from September 3, 2019 through August 28, 2020. The DCF model assumes that earnings growth and dividends growth are the same. Staff averaged earnings per share growth estimates from Yahoo Finance, Reuters, and Value Line to determine DCF growth estimates for each company in the Peer Group. The Value Line average incorporates both the explicit long-range earnings estimate shown in the boxed area of investor sheets and the implicit continuous growth rate calculated from the estimates of earnings per share. For its determination of DCF cost of equity, Staff assumed a non-constant DCF growth rate. Staff assumed dividends grow at a rate derived from financial analysts' growth estimates for the first five years (i.e., long-term growth rate). Staff's DCF growth estimates were used for the first five years, as they are averages of estimates from various investor news services. From the twenty-fifth year on, the growth rate was assumed to equal the long-term growth rate in Gross National Product (GNP). For the sixth through twenty-fourth years, assumed dividend growth rates changed incrementally from the average growth used in the first five years towards the GNP rate in a linear fashion. The long-term growth rate in GNP was the average annual change in GNP from the U.S. Department of Commerce for 1929 through 2019. ${ }^{16}$ Based on long-term GNP growth, the respective Company DCF growth estimate and dividend, a stream of annual dividends was calculated. Staff used the internal rate of return derived from

[^8]the dividend stream and the stock price for its non-constant growth DCF cost of equity estimate. The Peer Group's non-constant DCF cost of equity estimates average 9.03 percent. ${ }^{17}$

Staff also considered comparable returns being earned by a larger group of utilities that included both Peer Group and non-Peer Group utilities as an additional proxy for equity cost estimates. In doing so, Staff reviewed a group of utility holding companies that are included in the SPDR Select Sector Fund - Utility (XLU). Staff observed the earned returns on equity (ROE) achieved in 2019 by each of the companies in the XLU. The overall earned return for the group was 10.35 percent. ${ }^{18}$ In addition, Staff reviewed the recent ROEs granted in rate case decisions decided in 2020 by other state public utilities commissions. According to S\&P Global Marketplace Intelligence, utility rate case decisions in 2020 for electric utilities have resulted in an average authorized ROE of 9.50 percent. As shown on Staff Schedule D-1.12, Staff arrived at this calculation by averaging only the second and third quartiles in order to remove the impacts of outlier data points.

ROE Summary

| CAPM | $7.59 \%$ |
| :--- | :---: |
| DCF | $9.03 \%$ |
| 2019 Earned ROEs by Utility Group | $10.35 \%$ |
| 2020 Rate Case ROE Decisions | $9.50 \%$ |
| Total Average | $\mathbf{9 . 1 2 \%}$ |

Staff averaged the results of calculations of the CAPM and DCF with the averages of the comparable returns and using a one-hundred basis point range of uncertainty, the cost of equity estimate becomes 8.62 percent to 9.62 percent. To provide for this return, allowance must be made for issuance and other costs, as shown on Schedule D-1.2. Therefore, an adjustment factor of 1.01677 was applied resulting in a baseline cost of common equity recommendation of 8.76 percent to 9.78 percent, as shown on Staff's Schedule D-1.

[^9]
## RATES AND TARIFFS

In this case, Applicant requests authority to modify its electric distribution rates and charges. Staff investigated the rates and tariff matters proposed by Applicant. The results of the investigation by Staff are herein reported. It is the intent of Staff to provide analysis regarding the acceptability and reasonableness of the revenue recovery mechanisms contained in the proposed tariffs. Staff developed the recommended rates and charges in this section to generate a base distribution revenue requirement of $\$ 911,751,041$, which is an approximate midpoint of Staff's recommended revenue requirement range. The proposals made by Staff may require adjustments in order to generate the base distribution revenue requirement authorized by the Commission. Typical bills are presented at the end of the Report, in Schedule E-5.

## Tariff Analysis

The Applicant is proposing changes to its tariffs. Unless noted, Staff recommends approval of these change as proposed by the Applicant.

## Inspections (Terms and Conditions 7) sheet No. 103-3

The Company is proposing to add the following tariff language to inspections: "The Company reserves the right to inspect any service that has been disconnected/deenergized for a period for six months or more prior to reconnecting the service. The customer shall pay the company $\$ 27$ for the inspection service."

Staff does not object to providing the Company with a right to inspect any service that has been disconnected for a period of six months or more. Staff, however, does not believe that the $\$ 27$ charge for such an inspection is appropriate or reasonable. Staff recommends that customers not have to pay an additional charge if a visual inspection is performed prior to a reconnection of service.

## Location \& Maintenance of Company's Equipment (Terms and Conditions 8) Sheet No. 103-4

The Company is proposing the following language (in italics) to location and maintenance of Company's equipment: " $(\mathrm{t}) \mathrm{he}$ Company shall have the right to require the customer to provide the necessary easement in order to allow the Company to erect and maintain its poles, lines, circuits and other necessary facilities on the customer's property, and to place and maintain its transformers and other apparatus on the property or within the buildings of the customer at convenient locations." This modification may establish a new requirement for customers to utilize the Company's standard easement.

Through data requests the Company suggests that the additional tariff language would require customers to utilize the Company's standard easement. Staff believes that the proposed language is vague as well as has the potential for additional disputes. Staff recommends not including this new right to require the customer to utilize the Company's standard easement.

## Work Performed on Company's Facilities at Customer's Request (Terms and Conditions 12) Sheet No. 103-9

The Company is proposing that it will no longer itemize cost by major categories for work performed at the customer's request on the Company's facilities.

Through data requests the Company suggests that if a customer would request cost to be itemized then the Company would itemize the cost for the customer. Staff recommends adding tariff language, "Customers may request an itemization of cost."

## Meter Registration and Testing (Terms and Conditions 14) Sheet No. 103-10

The Company is proposing to expand its access to customer's meters and premises to all hours by removing the "reasonable requirement" and "adding any business purpose."

Staff recommends denying the Company's proposal and, thereby, keeping access to a customer's meter and premises restricted to "reasonable hours" and not for "any business purpose." The Company's access issues over time should be resolved with AMI. Furthermore, every electric tariff has the "reasonable requirement" in its tariff. Staff also objects to allowing access for "any business purpose" as too broad.

## Advanced Meter Opt Out (Terms and Conditions 16) Sheet No. 103-12

The Company is proposing to remove the requirement to have an area 85 percent installed AMI prior to charging for the opt out fee. In addition, there is a new provision to provide property owners with opt out rights superior to renters.

Staff recommends keeping the 85 percent requirement until a full deployment of AMI. Staff recommends not providing property owners with a superior right on meter choice.

## Delayed Payment Charge (Terms and Conditions Schedule RS) Sheet No. 210-3

The Company is proposing a delayed payment charge on all residential accounts not paid as of the due date. The charge is one and one-half percent ( $1.5 \%$ ) of the total amount billed due within 15 days after the mailing of the bill.

Staff recommends that the delayed payment charge be applied after 21 days of the mailing due date. In addition, Staff recommends that the delayed payment charge not apply to PIPP customers or to any competitive retail electric service or non-jurisdictional optional service.

## Net Energy Metering Service (Terms and Conditions Schedule NEMS) Sheet No. 261-2

The Company is proposing multiple changes to the tariff. These changes correspond to the recent changes to the Ohio Adm. Code 4901:1-10-28.

Staff recommends the Company add a provision in the tariff to account for net metering customers who choose a net metering contract with their Competitive Retail Electric Service (CRES) provider. A customer with a standard service offer would naturally have their net metering agreement with the Company. A customer with a CRES provider, however, may elect to have their net metering generation agreement with the Company or their CRES provider. In the instance of a customer having their net meter generation agreement with their CRES provider, the Company would not be responsible for the excess generation credit. Staff recommends that the proposed tariff account for a CRES-managed net meter generation agreement.

In addition, the proposed method of settlement for CRES providers reflected in unaccounted for energy does not align with the settlement process described in Adm.Code 4901:1-10-28(A)(9)(h). Staff recommends that the company transition to the settlement of negative hour load with the hourly energy obligation instead of through unaccounted for energy.

## Pole Attachment Tariff Sheet Nos. 300-1 thru 300-3

The Applicant's current tariffed rate of $\$ 9.59$ per attachment, per year was established in Case No. 15-974-EL-ATA. The current rate was calculated using the Federal Communications Commission's (FCC) pole
attachment formula, as adopted by the Commission, primarily using 2014 FERC Form 1 data for inputs. The Applicant has proposed no changes to its Schedule PA (Pole Attachment) tariff excluding headers and footers.

In this case, Staff applied the pole attachment formula to calculate a current pole attachment rate. Staff is recommending that the tariffed pole attachment rate be updated to include 2019 FERC Form 1 data, the most recent available, as inputs in the calculation. The Staff's calculation also includes unamortized excess Accumulated Deferred Income Taxes as required by the Commission in Case No. 18-47-AUCOI. ${ }^{19}$ Using the Commission's adopted pole attachment formula and its presumptions, Staff has determined the maximum annual rate for a pole attachment occupying one foot of space is $\$ 9.38$.

## Pilot Throughput Balancing Adjustment Rider (PTBAR) Sheet No. 406-1

The Company proposes in this application to continue the PTBAR and update the rider to reflect the test year billing determinants authorized in this proceeding. The Company is also proposing to redesign the General Service (GS) schedules in this application. The proposed redesign of the GS schedules will eliminate Schedule GS-1, which is currently the only general service schedule decoupled in the PTBAR. Since the Company is eliminating Schedule GS-1, they are proposing to modify the PTBAR by decoupling only the first 4,500 kWh for all Schedule GS secondary voltage customers.

This proposal by the Company would be an expansion to the currently decoupled general service tariffs, both in terms of included customers and amount of energy revenue to be decoupled. Currently, the PTBAR includes 124,083 GS-1 customers and decouples $\$ 6,523,829$ in energy revenue associated with GS-1 customers. As proposed, the Company would include in the PTBAR 188,955 Standard GS-Secondary customers and decouple energy revenue of $\$ 69,366,1312$. The proposed changes result in a test year energy revenue of $\$ 367.10$ per Standard GS-Secondary customer.

Staff supports the continuation of the PTBAR for residential and small general service customers and agrees with the Company that updating the test year usage and rates authorized in this proceeding should reduce the ongoing variances by capturing changes in customers usage. Staff also understands that the Company is in the process of redesigning and consolidating the general service tariffs. The Company's proposed changes to the general service tariffs would result in the need to adjust the PTBAR. While Staff understands the reason why the Company proposed to modify the PTBAR, the Company has not supported the modifications. As stated earlier, new customers and additional revenue that was never previously decoupled, will be decoupled under this proposal.

## Enhanced Service Reliability Rider Sheet No. 408-1

Currently, AEP Ohio recovers approximately $\$ 24$ million in its base rates and an additional $\$ 27.6$ million through the ESRR associated with tree trimming. The Company is proposing to embed all tree trimming expenses, or $\$ 45,091,362$, into base rates and to utilize the ESRR to recover funding for its Danger Tree program without an annual cap.

Regarding tree trimming activities, Staff recommends that $\$ 35,091,362$ be embedded in base rates and $\$ 10$ million remain in the ESRR to allow for annual audits of the entire vegetation program. Any tree

[^10]trimming disallowances found would be reduced from the $\$ 10$ million recovered through the ESRR. This method of filing annual true-ups and auditing is consistent with the ESRR methodology currently in place.

In regard to the Company's Danger Tree program, Staff examined the reliability impact of outages caused by trees outside the right-of-way for each of the last five years ${ }^{20}$ and found that while both interruptions per customer and outage minutes per customer were trending upward through 2018, the 2019 data suggests that the spending level in 2018 was appropriate for addressing danger trees. Based upon this previously mentioned data, Staff determined that 2018 spending of $\$ 14,114,051$ (rounded to $\$ 15$ million) to be an appropriate baseline for the amount recovered through the ESRR for the Danger Tree program with the expectation that spending, for this program, will dramatically decrease by 2024. Staff therefore recommends the Danger Tree program, annually funded through ESRR recoveries, be capped at \$15 million in years 2021 through 2023 as reflected in the following table.

| Period | $\mathbf{2 0 2 1}$ | $\mathbf{2 0 2 2}$ | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 4} \mathbf{2 2}$ | TOTAL |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Base Rates | $\$ 35,091,362$ | $\$ 35,091,362$ | $\$ 35,091,362$ | $\$ 35,091,362$ | $\$ 140,365,448$ |
| ESRR $^{21}$ | $\$ 25,000,000$ | $\$ 25,000,000$ | $\$ 25,000,000$ | $\$ 10,000,000$ | $\$ 85,000,000$ |
| TOTAL | $\$ 60,091,362$ | $\$ 60,091,362$ | $\$ 60,091,362$ | $\$ 45,091,362$ | $\$ 225,365,448$ |

## Bad Debt Rider Sheet No. 461-1

In this application, the Company is requesting to update the bad debt rider based on the test year level of factoring expense. The rider will compare the test year level of factoring expense to the actual factoring expense. The Company is also proposing to include in the rider any late payment fees collected from residential customers. This late payment revenue would be included as a credit to the bad debt rider. The Company further proposes to establish in base rates the 2019 level of transaction fees associated with debit and credit card payments. Any amounts above or below the base rate level would be reconciled through the bad debt rider.

Staff opposes the Company's proposals to include late payment fees and credit card transaction fees in the bad debt rider. Traditionally, late payment fees have been built into base rates as miscellaneous income and Staff is recommending that late payment fees continued to be recognized in that manner. Staff has made an adjustment on Schedule C-3.28 to recognize the inclusion of late payment revenue in the test year. Staff further opposes the inclusion of credit and debit card transaction fees in both the test year and the bad debt rider. Currently, customers who choose to pay using a credit or debit card bear the cost of the transaction fee. Staff avers that customers who choose this convenient third party provided payment method should continue to bear the cost of the fee. Staff has made an adjustment on Schedule C-3.21 to remove the level of transaction fees the Company proposed to establish in base rates.

[^11]
## Retail Reconciliation Rider \& SSO Credit Rider (Terms and Conditions) Sheet Nos. 425-1 and 424-1

In Case No. 16-1852-EL-SSO, the Company was directed to differentiate the costs between standard service offer (SSO) customers and shopping customers. ${ }^{23}$ Upon differentiation, the Company is proposing two riders to account for the proposed differences.

The Company has identified two quantifiable SSO costs of the PUCO/OCC assessment and the uncollectible expense of SSO customers. The Company has identified two quantifiable CRES costs of provider support labor costs and IT costs.

Staff recommends rejection of both riders. The Company did not examine all cost causation factors. Without looking at all factors, Staff cannot determine if or how cost should be allocated between shopping and non-shopping customers. Staff cannot recommend a charge that is not just and reasonable. In addition, Staff maintains that SSO is a default service, available to all customers and required by electric distribution companies to provide.

## Alternative Feed Service (Terms and Conditions Schedule AFS) Sheet No. 474-1

The Company is proposing to tariff their alternative feed service (redundant service/backup service) which is currently a special service negotiated by individual contract. In addition, the Company wishes to gross up the contribution in aid of the customers for state and federal income taxes.

Although, Staff has concerns regarding a shift from negotiated contracts to a tariffed rate for Alternative Feed Service (AFS) particularly with the sensitivity of the AFS customers. Staff would recommend additional notice to the 111 customers of these proceedings as more than half of the current customers current are not charged for this service. In addition, Staff recommends that the income tax gross up of the customers contribution in aid be rejected.

## Miscellaneous Charges

Miscellaneous charges are those costs recovered from customers who cause expenses to occur which are beyond the scope of regular business activities. These charges should be recovered from customers who cause the expense(s), rather than from customers in general. Staff has historically supported cost-based miscellaneous charges, in that they are incidental costs imposed by individual customers on the Applicant and, ultimately the rest of the customers. Staff believes the provisions and resulting charges should reflect the actual cost(s) incurred by the Applicant. The collection of these charges is generally not dollar-fordollar, but a reasonable approximation of cost.

The Applicant proposed changes to current miscellaneous charges are summarized below:

[^12]| Table 1: Miscellaneuos Charges |  |  |  |
| :---: | :---: | :---: | :---: |
| Charges | Current rate | $\begin{array}{\|c\|} \hline \text { Proposed } \\ \text { rate } \\ \hline \end{array}$ | Proposed Change |
| Reconnect Charge |  |  |  |
| At meter - regular business hours | \$ 53 | \$ 27 | -49\% |
| At meter - overtime | \$ 98 | \$ 58 | -41\% |
| At meter - Sunday or holiday | \$ 119 | \$ 71 | -40\% |
| At pole - regular business hours | \$ 154 | \$ 161 | 5\% |
| At pole - overtime | \$ 192 | \$ 222 | 16\% |
| At pole - Sunday or holiday | \$ 221 | \$ 261 | 18\% |
| Remove \& reset meter | \$ 73 | \$ | -100\% |
| Install locking device | \$ 73 | \$ 78 | 7\% |
| At customer's request for non-credit reasons | \$ 153 | \$ 168 | 10\% |
| Inspections for over 6 Months | \$ | \$ 27 | 100\% |
| Collection Trip Charge | \$ 16 | 18 | 13\% |
| Meter Test Charge: Single Phase | \$ 64 | \$ 75 | 17\% |
| Meter Test Charge: Other Than Single Phase | \$ 85 | \$ 100 | 18\% |
| Investigate Tampering or Fraudulent Practice | \$ 49 | \$ 52 | 6\% |
| Returned Check Charge | \$ 9 | \$ 12 | 33\% |
| Temporary Service requiring only Read-in/out an Existing Meter | \$ 57 | \$ 61 | 7\% |
| Temporary Service (Overhead) | \$ 237 | \$ 383 | 62\% |
| Temporary Service (Underground) | \$ 134 | \$ 144 | 7\% |
| Connect Phone Line | \$ 57 | \$ 66 | 16\% |
| Perform Manual Meter Read | \$ 43 | \$ 50 | 16\% |
| Check Phone Line \& Perform Manual Read | \$ 47 | \$ 55 | 17\% |
| Repair/Replace Surge Protector | \$ 119 | \$ 119 | 0\% |
| Repair/Replace Interval Board | \$ 121 | \$ 137 | 13\% |
| Repair/Replace Modem Board | \$ 210 | \$ 236 | 12\% |
| Repair/Replace Interval Board \& Modem Board | \$ 260 | \$ 279 | 7\% |
| Monthly carrier charge |  | \$ 0.65 | 100\% |
| Service Connections Fees-Service Fee Multiple Trips |  |  |  |
| Normal Business Hours | \$ 28 | \$ 31 | 11\% |
| Off Shift | \$ 77 | \$ $\quad 97$ | 26\% |
| Sunday or Holiday | \$ 100 | \$ 127 | 27\% |

The Applicant also proposes new delayed payment charges for residential customers and other changes to current delayed payment charges are summarized below:

| Table 2: Delayed Payment Charges |  |  |  |
| :--- | :--- | :--- | :--- |
| Tariff Schedule | Proposed <br> Sheet No. | Current Charge | Proposed Charge |
| RS | $210-3$ | None | $1.5 \%$ of the total amount billed |
| RS-TOD | $216-1$ | None | $1.5 \%$ of the total amount billed |
| RSDM | $214-1$ | None | $1.5 \%$ of the total amount billed |
| RS-TOU | $215-1$ | None | $1.5 \%$ of the total amount billed |
| GS | $220-3$ | $.67 \%-5 \%$ | $2.5 \%$ of the unpaid balance |
| GS-TOU | $221-1$ | None | $2.5 \%$ of the total amount billed |
| GS-TOD | $222-1$ | $2 \%-5 \%$ | $2.5 \%$ of the unpaid balance |
| County and Independent Fairs | $228-1$ | $5 \%$ of the total amount billed | $2.5 \%$ of the unpaid balance |
| SL | $241-6$ | $5 \%$ of the total amount billed | $2.5 \%$ of the total amount billed |
| EHG | $250-1$ | $5 \%$ of the unpaid balance | $2.5 \%$ of the unpaid balance |

## Reconnect Charge at Meter

The Applicant proposed decreasing the Reconnect Charge at the meter for non-pay during regular business hours from $\$ 53$ to $\$ 27$; during overtime hours from $\$ 98$ to $\$ 58$; and on Sundays or holidays from $\$ 119$ to $\$ 71$. The Applicant provided support for the decrease with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. The Applicant calculated Reconnect Charges at the meter to include an AMI Meter Adjustment Rounded 55\% Credit. In response to Staff data request \#154, the current percentage of AMI deployment as of October 2020 is $63 \%$. This AMI deployment percentage amount is based on the number of AMI meters with remote capabilities to determine the AMI Meter Adjustment Credit. Staff has recalculated Reconnect Charge at the meter for non-pay during regular business hours to be $\$ 23$; during overtime hours $\$ 47$; and on Sundays or holidays $\$ 58$ using Applicant's methodology based on $63 \%$ AMI credit. As more AMI Meters are installed as part of future gridSMART proceedings, the AMI Meter Adjustment Credit must be updated as part of those proceedings to reflect the lowering costs of remote disconnection/reconnection. Therefore, Staff recommends the charges to be $\$ 23, \$ 47$ and $\$ 58$ respectively.

## Reconnect Charge at Pole

The Applicant proposed increasing the Reconnection Charge at Pole for non-pay during regular business hours from $\$ 154$ to $\$ 161$; during overtime hours from $\$ 192$ to $\$ 222$; and on Sundays or holidays from \$221 to \$261. The Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Therefore, Staff recommends approval.

## Install locking device service charge

The Applicant proposed increasing the Install locking service charge from $\$ 73$ to $\$ 78$. The Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Therefore, Staff recommends approval.

## Reconnect at customer's request for non-credit reasons

The Applicant proposed increasing Disconnect and Reconnect at customer's request for non-credit related reasons from $\$ 153$ to $\$ 168$. However, the Applicant's workpaper supports a $\$ 160$ for the charge. In response to staff data request \#16, the Applicant acknowledged $\$ 160$ is the recommended charge. Staff recommends approval of this charge at $\$ 160$.

## Inspection for over 6 Months

The Applicant proposed new service charge of $\$ 27$ to inspect any service that has been disconnected /deenergized for a period of six months or more prior to reconnecting the service. Consistent with Staff's recommendation in the Tariff Analysis section of this report, Staff recommends the Commission deny this charge.

## Collection Trip Charge

The Applicant proposed increasing the collection trip charge from $\$ 16$ to $\$ 18$. The Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Therefore, Staff recommends approval.

## Minimum to Investigate Tampering or Fraudulent Practice

The Applicant proposed increasing the minimum charge to investigate service obtained through tampering practices from $\$ 49$ to $\$ 52$. In response to staff data request $\# 13$, the Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Staff recommends approval of the $\$ 52$ charge supported by the Applicant's work paper.

## Return Check Charge

The Applicant proposed increasing the return check charge from $\$ 9$ to $\$ 12$. In response to staff data request \#13, the Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Staff recommends approval of the $\$ 12$ charge supported by the Applicant's work paper.

## Meter Test Charge: Single Phase

The Applicant proposed increasing the meter test charge for single phase meters from $\$ 64$ to $\$ 75$. In response to staff data request \#13, the Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Staff recommends approval of the \$75 charge supported by the Applicant's work paper.

## Meter Test Charge: Other Than Single Phase

The Applicant proposed increasing the meter test charge for meters other than single phase meters from $\$ 85$ to $\$ 100$. In response to Staff data request \#13, the Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Staff recommends approval of the $\$ 100$ charge supported by the Applicant's work paper.

## Temporary Service requiring only Reading-in/Out an Existing Meter

The Applicant proposed increasing the charge for temporary service requiring only reading-in and readingout an existing meter from $\$ 57$ to $\$ 61$. In response to Staff data request \#13, the Applicant provided support for the increase with cost-based data, including work papers showing fully loaded hourly labor rate, travel time and equipment costs. Staff recommends approval of the $\$ 61$ charge supported by the Applicant's work paper.

## Temporary Service for Overhead/Underground Service

The Applicant proposed to increase the charge to provide temporary service for single-phase 120/240 volt service from an existing source with adequate capacity from $\$ 237$ to $\$ 383$ (overhead) and from $\$ 134$ to $\$ 144$ (underground). In response to staff data request \#13, the Applicant provided support for the increases with cost-based data, including work papers showing fully loaded hourly labor rate, travel time
and equipment costs. Staff recommends approval of the $\$ 383$ and $\$ 144$ charges supported by the Applicant's work paper.

## Interval Metering Operation, Maintenance and Meter Data Management Charges

The Applicant proposed to increase the following charges associated with the operation and maintenance of an interval meter: Connect phone line to meter at a time other than the initial interval meter installation from $\$ 57$ to $\$ 66$; perform manual meter reading from $\$ 43$ to $\$ 50$; checking phone line and perform manual meter read due to communication loss from $\$ 47$ to $\$ 55$; replace interval board from $\$ 121$ to $\$ 137$; replace modem board from $\$ 210$ to $\$ 236$ and; replace interval and modem boards from $\$ 260$ to $\$ 279$. The Applicant proposed a new charge of $\$ 0.65$ per 1 mb per month for communication with meters when the customer does not have telephone service. In response to staff data request \#13 and \#162, the Applicant provided support for the increases and new charge with cost-based data, including work papers showing fully loaded hourly labor rates, travel times, equipment costs and contracts. Staff recommends approval of the proposed charges supported by the Applicant's work papers.

## Service Connection Charges

The Applicant proposes to increase the charges associated to initial service connections when three or trips are made for service installation that cannot be completed due to customer installation issues: during normal business hours from $\$ 28$ to $\$ 31$; other than normal business hours - off shift from $\$ 77$ to $\$ 97$ and; other than normal business hours - Sunday or holiday from $\$ 100$ to $\$ 127$. In response to staff data request \#162, the Applicant provided support for the increases with cost-based data, including work papers showing fully loaded hourly labor rates, travel times and equipment cost. Staff recommends approval of the proposed charges supported by the Applicant's work papers.

## Delayed Payment Charges

The Applicant proposes to establish a new 1.5 percent delayed payment charge for residential customers. In proposing to combine the Columbus Southern Power and Ohio Power rate zone schedules, the Applicant also proposes to apply a uniform 2.5 percent delayed payment charges for its general service customers. In response to staff data request \#144, the Applicant clarified that the delayed payment charges will not compound on the total outstanding amount and will only apply to the unpaid portion of the current bill. They will not apply to third party charges or CRES charges nor will they be assessed to customers on PIPP accounts. Staff recommends approval of the delayed payment charges, subject to Staff's recommendations in the Tariff Analysis section of this report.

## Rate and Revenue Analysis

Staff reviews an applicant's proposed rate schedules and designs for consistency with important ratemaking principles. The applicable schedules should provide the utility with the opportunity to recover an authorized revenue. The various schedules should represent a reasonable distribution of revenue between and among various customer classes. The schedules should be equitable and reasonable. The Schedules should provide for customer understanding, continuity of rates, and minimal customer impact.

Rate design criteria are to be viewed as a package; in that they are interrelated. Although each ratemaking principle can be separately identified and applied to rate schedule determinations, no single standard is overriding in the determination of a proper rate design. The rate schedules which comprise a utility's tariff should provide for recovery of expenses found proper during a regulatory proceeding. If the rate schedule is designed on the basis of cost causation, it will provide for expense recovery in the long-term, given changes in customer consumption characteristics. Normally, and to the extent sufficient information is
available, cost of service studies and related expense analyses are necessary to determine the appropriate level of revenue to be generated and the appropriate recovery of such revenue.

The rate schedules should be designed to be equitable and reasonable to the customers served, pursuant to their applicability. This criterion involves several considerations. The rate schedules should, to the extent practicable, be predicated upon the cost associated with a particular service rendered. Customers receiving like services should experience the same charges and provisions. Also, differences in applicable charges should represent differences in costs.

From a practical rate design standpoint, absolute equality between costs and revenues may be difficult to achieve in the short term. While it may be viewed as equitable to set rates at costs, if there is a substantial divergence in the current rates, the resulting impact on individual customers may be viewed as unreasonable. While Staff supports cost-based charges, Staff considers such items as resulting typical customer bill impacts and resulting revenue increases which would necessarily occur. While it is Staff's position that rates reflect costs, Staff also considers continuity associated with the current and proposed pricing structures. This may result in movement toward aligning revenues with costs, rather than an absolute match at a particular time period.

When employing these standards to develop and design rates, the results should be understandable to all the customers billed under the tariff.

## Cost of Service Analysis

Cost of service studies approximate the costs incurred by a utility in providing service and identify the cause of the costs. These are determined by assigning the costs to the customer class relative to what each class imposes on the system. There are several steps involved, as listed below:

- Functionalization: The separation of costs according to production, transmission or distribution function.
- Classification: The distribution of functionalized costs into the cost categories of customer, demand, or energy related costs. Customer costs are independent of customer usage characteristics and are costs which are associated with customer service connections to the system and vary with the number of customers served. Demand costs are those expenses which vary with the rate in which the service is used, such as the cost of meeting peak demand. Energy costs are the costs which vary according to the volume of energy consumed, or the customer's kilowatt-hour consumption. and
- Allocation: The assignment of classified costs to each customer class on an equitable and apportioned basis. This is determined by a combination of the number of customers, class demands, and energy usage.

The Cost of Service Study (COSS) filed by the Applicant is an embedded, fully allocated cost of service study by rate class for the test period ended November 30, 2020. The COSS classifies electric distributionrelated cost items such as plant investment, operating expenses and taxes as either demand or customerrelated, and then allocates the same items to the various customer classes while calculating the revenue responsibility of each class required to generate the applicant's recommended rate of return.

The Applicant based its allocations on the cost causation guidelines established in the NARUC "Electric Utility Cost Allocation Manual." The Applicant separated distribution plant costs into primary and secondary voltage functions, used the six-monthly coincident peaks to allocate primary demand costs,
and used a combination of each class's 12-month maximum demand and the summation of individual customers' annual maximum demands to allocate secondary demand costs. The allocation factors were developed based on load research study results for the twelve months period January 2019 to December 2019. Staff accepts the COSS as filed and finds it to be a reasonable indicator of cost responsibility.

COSS results are presented on Tables 3 and 4. Table 3 provides the Current and Applicant-proposed distribution related Rates of Return and Indexes for the customer classes. The Applicant proposes a levelized rate of return in this Application; Staff does not propose a change. Table 4 shows the results of the COSS and provides a comparison against the Applicant's current base revenue distribution and its proposed base revenue distribution. The Applicant's proposal shows reasonable movement toward the COSS results, which Staff finds acceptable.

Table 3
Cost of Service Results
Rate of Return

| Rate Class |  | Current |  | Applicant Proposed |  |
| :--- | ---: | ---: | ---: | ---: | :---: |
|  | $\boldsymbol{\%}$ \% | Index | ROR | Index |  |
| RS: Residential | $-2.11 \%$ | 0.98 | $7.9 \%$ | 1 |  |
| GS: Non-Demand Metered | $0.19 \%$ | -0.09 | $7.9 \%$ | 1 |  |
| GS: Demand Metered - SEC | $-2.07 \%$ | 0.96 | $7.9 \%$ | 1 |  |
| GS: Demand Metered - PRI | $-3.28 \%$ | 1.53 | $7.9 \%$ | 1 |  |
| GS: Demand Metered - SUB/TRAN | $-18.12 \%$ | 8.43 | $7.9 \%$ | 1 |  |
| OL: Outdoor Lighting | $2.73 \%$ | -1.27 | $7.9 \%$ | 1 |  |
| SL: Street Lighting | $5.55 \%$ | -2.58 | $7.9 \%$ | 1 |  |
| Total | $\mathbf{- 2 . 1 5 \%}$ | $\mathbf{1 . 0 0}$ | $\mathbf{7 . 9 \%}$ | $\mathbf{1}$ |  |

Table 4
Cost of Service Results
Base Revenue Distribution Percentage

| Rate Class | COSS Revenue <br> Distribution | Current <br> Revenue <br> Distribution | Applicant's <br> Proposed <br> Revenue |
| :--- | ---: | ---: | ---: |
|  |  |  | Distribution <br> $\%$ |
| RS: Residential | $58.86 \%$ | $60.65 \%$ | $58.86 \%$ |
| GS: Non-Demand Metered | $3.01 \%$ | $3.48 \%$ | $3.14 \%$ |
| GS: Demand Metered - SEC | $25.32 \%$ | $24.16 \%$ | $25.20 \%$ |
| GS: Demand Metered - PRI | $9.57 \%$ | $8.59 \%$ | $9.57 \%$ |
| GS: Demand Metered - SUB/TRAN | $1.17 \%$ | $0.40 \%$ | $1.17 \%$ |
| OL: Outdoor Lighting | $1.36 \%$ | $1.70 \%$ | $1.36 \%$ |
| SL: Street Lighting | $0.71 \%$ | $1.01 \%$ | $0.71 \%$ |
| Total | $\mathbf{1 0 0 . 0 \%}$ | $\mathbf{1 0 0 . 0 \%}$ | $\mathbf{1 0 0 . 0 \%}$ |

## Distribution of Proposed Revenue Increase/Decrease

Applicant proposes an increase of $\$ 402.1$ million in distribution base revenues. ${ }^{24}$ The proposed net increase after removing the revenue impact change in riders is $\$ 42.3$ million. ${ }^{25}$ Staff analyzed the COSS utilized by the Applicant in this filing and finds it to be a reasonable indicator of costs and cost responsibility between classes. However, Staff recommends a reduction in the current total Company revenue recovery. Staff recommends distribution base revenues increase between $\$ 237.2$ million and $\$ 257.7$ million. ${ }^{26}$ After removing the revenue impact change in riders, as proposed by the Applicant, Staff's recommendation results in net decrease ranging from $\$ 122.6$ million to $\$ 102.1$ million. ${ }^{27}$

Tables 5 and 6 provides the Applicant's and Staff's proposed distribution of base revenue and base revenue increase/decrease for each class of customer, as well as each class's percentage increase. Tables 7 and 8 provide the distribution of the Applicant's and Staff's proposed total revenue increase/decrease for each class, as well as each class's percentage increase. Tables 7 and 8 include current and proposed rider rates as filed by the Applicant. Tables 6 and 8 include current base and total revenues at Staff adjusted levels. These totals do not include miscellaneous revenues included in Applicant's Other Operating Revenues and Applicant proposed changes in Miscellaneous Charges that were not built into the Applicant's Schedules E-4.1 or Staff's Other Operating Revenues.

[^13]Table 5
Base Revenue Distribution and Increase
Applicant Proposed

| Rate Class | Applicant Current Base Revenue |  | Applicant Proposed Base Revenue |  | Applicant Proposed Increase |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$ | \% of Total | \$ | \% of Total | \$ | \% | \% of Total |
| RS: Residential | 381,748,171 | 60.65\% | 597,294,044 | 58.86\% | 215,545,873 | 56.46\% | 55.93\% |
| GS: Non-Demand Metered | 21,895,298 | 3.48\% | 31,822,420 | 3.14\% | 9,927,122 | 45.34\% | 2.58\% |
| GS: Demand Metered - SEC | 152,068,990 | 24.16\% | 255,695,210 | 25.20\% | 103,626,220 | 68.14\% | 26.89\% |
| GS: Demand Metered - PRI | 54,077,804 | 8.59\% | 97,083,507 | 9.57\% | 43,005,703 | 79.53\% | 11.16\% |
| GS: Demand Metered - SUB/TRAN | 2,514,752 | 0.40\% | 11,853,148 | 1.17\% | 9,338,396 | 371.34\% | 2.42\% |
| OL: Outdoor Lighting | 10,711,863 | 1.70\% | 13,820,562 | 1.36\% | 3,108,699 | 29.02\% | 0.81\% |
| SL: Street Lighting | 6,360,078 | 1.01\% | 7,177,286 | 0.71\% | 817,207 | 12.85\% | 0.21\% |
| Total | 629,376,956 | 100.0\% | 1,014,746,176 | 100.0\% | 385,369,220 | 61.2\% | 100.0\% |

Table 6
Base Revenue Distributon and Increase
Staff Proposed

| Rate Class | Staff Current Base Revenue |  | Staff Proposed Base Revenues |  | Staff Proposed Increase |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$ | \% of Total | \$ | \% of Total | \$ | \% | \% of Total |
| RS: Residential | 382,454,925 | 60.68\% | 508,591,710 | 58.86\% | 126,136,785 | 32.98\% | 53.96\% |
| GS: Non-Demand Metered | 22,008,187 | 3.49\% | 29,307,485 | 3.39\% | 7,299,298 | 33.17\% | 3.12\% |
| GS: Demand Metered - SEC | 152,126,619 | 24.14\% | 215,502,071 | 24.94\% | 63,375,452 | 41.66\% | 27.11\% |
| GS: Demand Metered - PRI | 54,095,109 | 8.58\% | 82,694,493 | 9.57\% | 28,599,384 | 52.87\% | 12.24\% |
| GS: Demand Metered - SUB/TRAN | 2,543,720 | 0.40\% | 10,073,988 | 1.17\% | 7,530,268 | 296.03\% | 3.22\% |
| OL: Outdoor Lighting | 10,711,863 | 1.70\% | 11,766,433 | 1.36\% | 1,054,570 | 9.84\% | 0.45\% |
| SL: Street Lighting | 6,360,078 | 1.01\% | 6,110,806 | 0.71\% | $(249,272)$ | -3.92\% | -0.11\% |
| Total | 630,300,500 | 100.0\% | 864,046,986 | 100.0\% | 233,746,485 | 37.1\% | 100.0\% |

Table 7
Total Revenue Distribution and Increase Applicant Proposed

| Rate Class | Applicant Current Total Revenue |  | Applicant Proposed Total Revenue |  | Applicant Proposed Increase |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$ | \% of Total | \$ | \% of Total | \$ | \% | \% of Total |
| RS: Residential | 682,062,832 | 55.81\% | 715,687,356 | 56.74\% | 33,624,523 | 4.93\% | 85.70\% |
| GS: Non-Demand Metered | 55,473,225 | 4.54\% | 51,044,519 | 4.05\% | $(4,428,706)$ | -7.98\% | -11.29\% |
| GS: Demand Metered - SEC | 318,656,318 | 26.07\% | 326,563,273 | 25.89\% | 7,906,955 | 2.48\% | 20.15\% |
| GS: Demand Metered - PRI | 114,645,306 | 9.38\% | 123,579,777 | 9.80\% | 8,934,471 | 7.79\% | 22.77\% |
| GS: Demand Metered - SUB/TRAN | 23,073,942 | 1.89\% | 22,217,324 | 1.76\% | $(856,618)$ | -3.71\% | -2.18\% |
| OL: Outdoor Lighting | 17,501,914 | 1.43\% | 14,412,642 | 1.14\% | $(3,089,273)$ | -17.65\% | -7.87\% |
| SL: Street Lighting | 10,689,552 | 0.87\% | 7,832,171 | 0.62\% | $(2,857,382)$ | -26.73\% | -7.28\% |
| Total | 1,222,103,090 | 100.0\% | 1,261,337,062 | 100.0\% | 39,233,971 | 3.2\% | 100.0\% |

Table 8
Total Revenue Distribution and Increase Staff Proposed

| Rate Class | Staff Current Total Revenue |  | Staff Proposed Total Revenue |  | Staff Proposed Decrease |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$ | \% of Total | \$ | \% of Total | \$ | \% | \% of Total |
| Residential | 683,158,250 | 55.83\% | 627,802,975 | 56.45\% | (55,355,276) | -8.10\% | 49.60\% |
| Non-Demand Metered | 55,793,974 | 4.56\% | 48,670,673 | 4.38\% | $(7,123,301)$ | -12.77\% | 6.38\% |
| Demand Metered Secondary | 318,758,618 | 26.05\% | 286,712,349 | 25.78\% | $(32,046,269)$ | -10.05\% | 28.72\% |
| Demand Metered Primary | 114,671,862 | 9.37\% | 109,308,327 | 9.83\% | $(5,363,535)$ | -4.68\% | 4.81\% |
| Demand Metered Sub/Transmission | 23,116,044 | 1.89\% | 20,452,901 | 1.84\% | $(2,663,143)$ | -11.52\% | 2.39\% |
| Outdoor Lighting | 17,501,914 | 1.43\% | 12,375,061 | 1.11\% | $(5,126,853)$ | -29.29\% | 4.59\% |
| Street Lighting | 10,689,552 | 0.87\% | 6,774,283 | 0.61\% | $(3,915,270)$ | -36.63\% | 3.51\% |
| Total | 1,223,690,216 | 100.0\% | 1,112,096,569 | 100.0\% | $(111,593,647)$ | -9.1\% | 100.0\% |

## Revenue and Rate Adjustment Recommendation

Staff recommends that the Commission grant the change in revenue generated by rates as proposed by Staff in Tables 6 and 8. Staff's proposed customer charges should not be adjusted to a lower level given a lower authorized base distribution revenue requirement.

## Customer Charge

In most cases, it is agreed that distribution system costs are fixed costs and classified as demand and customer related. In generally accepted ratemaking practices, fixed costs are recovered by an electric utility in two ways: customer charges and demand charges. The customer charge recovers some of the fixed costs that are directly attributable to serving an individual customer. These fixed costs are recovered through a flat charge per customer. The customer charge provides a price signal to the customer that
there are costs associated with serving him or her, independent of the customer's demand for consumption of energy. The demand charge and/or energy charge recovers the remainder of the capital operating costs the company incurs while providing sufficient operating capacity to meet that customer's maximum demand as needed. Historically, Ohio electric utilities have recovered the demand component of fixed costs through a volumetric rate. The Staff has utilized a minimally compensatory approach which requires little or no judgement with respect to customer related expenses. Using the Staff recommended method for determining residential customer charges, the customer charge per bill would be $\$ 6.01$. See Table 9 below.

Table 9
Residential Customer Charge

| Line No. | Account No. | Account Title | Account Balance |
| :---: | :---: | :---: | :---: |
| 1 |  | Plant accounts |  |
| 2 | 369 | Services | \$289,115,716 |
| 3 | 370 | Meters | \$2,050,724 |
| 4 |  | Total Customer Related Distribution Plant | \$291,166,440 |
| 5 |  | Accumulate Depreciation | \$(92,840,793) |
| 6 |  | Net Customer Related Distribution Plant | \$198,325,647 |
| 7 |  |  |  |
| 8 |  | Expense accounts |  |
| 9 | 586 | Meters | \$55,973 |
| 10 | 587 | Customer Installation | \$29,168 |
| 11 | 597 | Maintenance of Meters | \$1,155 |
| 12 | 901 | Supervision (Customer Acct) | \$249,769 |
| 13 | 902 | Meter Reading | \$4,068,245 |
| 14 | 903 | Customer Records, Collection | \$35,018,387 |
| 15 | 907 | Supervision (Customer Service and Coll) | \$2,286,687 |
| 16 | 908 | Customer Assistance | \$4,724,946 |
| 17 | 909 | Information and Instruction | \$5,733,462 |
| 18 |  | Total Customer Expense | \$52,167,791 |
| 19 |  |  |  |
| 20 |  | Customer Related Distribution Plant Carrying Cost (Line 6 x. 2039 | \$40,432,084 |
| 21 |  | Total Carrying Cost and Expenses (Line 18 + Line 20) | \$92,599,874 |
| 22 |  | No. Customer Bills /Year | 15,405,296 |
| 23 |  | Staff Calculated Monthly Customer Charge | \$6.01 |

In this case, Applicant proposed to shift a portion of the Secondary Demand costs into the customer charge and away from the volumetric charge that currently serves as a proxy for demand charges. Applicant explains that in the absence of collection through demand charge, inclusion of demand related fixed costs in the monthly service charge is reasonable. ${ }^{28}$ In consideration of the gradualism concept,

[^14]Applicant proposes to include in the customer charge only 62.5 percent of costs classified as secondarydistribution demand related in the COSS. Applicant proposed to increase the monthly customer charge for residential customers to $\$ 14$, which represents a 67 percent increase over Applicant's current customer charge of $\$ 8.40$. Although the current residential customer charge is $\$ 8.40$, the effective customer charge was $\$ 11.79$ per month as of December 2019. ${ }^{29}$ At the end of August 2020, the effective customer charge increased to $\$ 12.10$ per month.

Applicant's proposal significantly differs from the Customer Charge / Minimum Bill Rationale provided on Schedule E-3.1. This schedule includes only the customer components of the COSS and supports an \$8.11 monthly residential customer charge.

In the absence of collection through demand charges, the current practice of recovering the demand component of fixed costs through a volumetric rate is reasonable. Staff recommends that the minimally compensatory approach to calculate customer charges be maintained in this case. Although Staff's calculation supports a $\$ 6.01$ residential customer charge, Staff believes the customer charges calculated on Schedule E-3.1 are reasonable and recommends that the Commission approve a residential customer charge of $\$ 8.11$ in this case.

## Rate Design

Applicant has proposed rate changes specific to the various schedules in its tariff. The Applicant proposes to consolidate the Ohio Power (OP) and Columbus Southern Power (CSP) rate zones and several of its tariffs to simplify and standardize its rate schedules.

The following analysis provides Staff's recommendations regarding those proposals. A summary of the current rates, Applicant-proposed rates and Staff-proposed rates are provided for an example schedule. The current rates are the rates now in effect for the Applicant. The proposed rates are the rates proposed by Applicant to generate the requested revenue increase and the Applicant-proposed revenue distribution. The Staff-proposed rates reflect Staff's proposed base distribution revenue requirement of $\$ 911,751,041$, which is an approximate midpoint of Staff's recommended revenue requirement range. These are presented for illustrative purposes to show the impact Staff's recommended changes to the base distribution revenue requirement have on rate increases. The increases reflect changes to the base rate and do not represent the total bill impact. Typical bills at the end of this report reflect Staff's proposed base distribution revenue requirement and include rider rates as proposed by the Applicant in its Application.

## Residential

The Applicant has proposed to consolidate and simplify the residential rate schedules. The changes are summarized in Table 10 below.

[^15]Table 10
Residential Schedule Consolidation

| Proposed | Current |  |
| :---: | :---: | :---: |
| RS | OP | RS - Residential Service |
|  | CSP | R-R-Residential Service |
|  | CSP | R-R-1-Residential Small Use Load Management Service |
| RSDM | OP | RDMS - Residential Demand Metered Service |
|  | OP | RSDM - Residential Service - <br> Demand-Metered |
|  | CSP | RSDM - Residential Service - <br> Demand-Metered |
| RS-TOU \& RS-TOD | OP | RS-TOD - Time-of-Day |
|  | OP | RS-ES - Energy Storage |
|  | CSP | RLM - Residential Optional Demand Service |
|  | CSP | RS-ES - Residential Energy Storage |
|  | CSP | RS-TOD - Residential Time-of-Day Service |
|  | CSP | RS-TOD2 - Experimental Residential Time-of-Day Service |
|  | CSP | CPP - Experimental Critical Peak Pricing |
|  | CSP | RS-RTP |

Schedule RS - Residential Service
This rate is available to customers desiring secondary service for all residential purposes through one meter to a single or double occupancy dwelling unit including farm dwellings and who request and receive electric generation service from either the SSO or a qualified CRES Provider. The Applicant is maintaining the same block structure with the exception that the Storage Water Heating Provision is now eliminated. The Applicant is proposing to increase the customer charge from $\$ 8.40$ to $\$ 14.00$. Staff recommends decreasing the customer charge to $\$ 8.11$. To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0277353 / \mathrm{kWh}$, as shown in Table 11.

Table 11
Schedule RS

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed Increase | Proposed Increase |  |  |
|  | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 8.40 | 14.00 | 66.67 | 8.11 | -3.45 |
| Energy Charge: All kWh | 0.0182747 | 0.0276373 | 51.23 | 0.0277353 | 51.77 |

## Schedule RS-TOU - Residential Time-of-Use Service

This rate schedule is available for residential secondary service through one multiple-register meter capable of measuring electrical energy consumption during the on-peak and off-peak billing periods to individual residential customers and/or customers previously receiving service under Schedule RS-ES and Schedule RLM.

The Applicant's customers currently receiving service under Schedules RS-TOD, RS-ES and RLM would be served under Schedule RS-TOD. This schedule is in the process of elimination and withdrawn except for the present installation of customers receiving service on the effective date of the tariff. The proposed monthly rate is consistent with Schedule RS-TOU.

The Applicant proposes a simplified rate schedule with a customer charge and energy charge applicable to all kWh. The Applicant is proposing to increase the customer charge from $\$ 9.25$ to $\$ 14.00$. Staff recommends decreasing the customer charge to $\$ 8.11$. To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0277353 / \mathrm{kWh}$. Table 12 compares the current, Applicant-proposed, and Staff-proposed rates for customers currently served under Ohio Power's RS-TOD schedule.

Table 12
Schedule RS-TOU

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed Increase | Proposed Increase |  |  |
| OP RS-TOD | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 9.25 | 14.00 | 51.35 | 8.11 | -12.32 |
| Energy Charge: All kWh | 0.0182747 | 0.0276373 | 51.23 | 0.0277353 | 51.77 |

## Schedule RSDM - Residential Service - Demand-Metered

This rate is available to customers desiring secondary service for all residential purposes through one meter to a single or double occupancy dwelling unit including farm dwellings and who request and receive electric generation service from either the SSO or a qualified CRES Provider. The Applicant is maintaining the same block structure. The Applicant is proposing to increase the customer charge from $\$ 8.40$ to $\$ 14.00$. Staff recommends decreasing the customer charge to $\$ 8.11$. To achieve Staff's proposed revenue, Staff is proposing an demand charge of $\$ 4.50 / \mathrm{kW}$, as shown in Table 13.

Table 13
Schedule RSDM

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed Increase | Proposed Increase |  |  |
|  | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 8.40 | 14.00 | 66.67 | 8.11 | -3.45 |
| Demand Charge (per kW) | 3.17 | 4.48 | 41.32 | 4.50 | 41.96 |

## General Service

The Applicant has proposed to consolidate and simplify the General Service rate schedules. These changes are summarized in Table 14 below.

Table 14
GS Schedule Consolidation

| Proposed |  | Current |  |
| :---: | :---: | :---: | :---: |
| GS- General Service | GS - Unmetered Service Provision | OP | GS-1 - General Service Unmetered |
|  |  | CSP | GS-1-General Service Unmetered |
|  | GS - Secondary | OP | GS-1 Metered - General Service - NonDemand Metered |
|  |  | CSP | GS1-Metered |
|  |  | OP | GS-2 Secondary Voltage |
|  |  | CSP | GS-2 Secondary Voltage |
|  |  | OP | GS-3 Secondary Voltage |
|  |  | CSP | GS-3 Secondary Voltage |
|  | GS - Primary | OP | GS-2 Primary Voltage |
|  |  | CSP | GS-2 Primary Voltage |
|  |  | OP | GS-3 Primary Voltage |
|  |  | CSP | GS-3 Primary Voltage |
|  |  | OP | GS-4 Primary Voltage |
|  | GS - Transmission | OP | GS-2 Subtransmission Voltage |
|  |  | OP | GS-3 Subtransmission Voltage |
|  |  | OP | GS-4 Subtransmission Voltage |
|  |  | OP | GS-2 Transmission Voltage |
|  |  | OP | GS-3 Transmission Voltage |
|  |  | OP | GS-4 Transmission Voltage |
|  |  | CSP | GS-4 |
|  | Recreational Lighting Provision | OP | GS-2 Recreational Lighting Service |
| GS-TOU \& GS-TOD |  | CSP | GS-1 - Load Management Time-of-Day Provision |
|  |  | CSP | GS1-TOD - Experimental Small General Service Time-of-Day |
|  |  | OP | GS-1-ES General Service - Non-Demand Metered |
|  |  | OP | GS-TOD |
|  |  | CSP | GS-2 TOD |
|  |  | OP | GS-3 - Energy Storage Provision |
|  |  | OP | GS-2 ES |
|  |  | CSP | GS2- LMTOD |
| GS-Fair |  | OP | County and Independent Fairs |
|  |  | CSP | County and Independent Fairs |

## Schedule GS - General Service

This rate schedule is available for general service to non-residential customers served under secondary, primary and transmission voltage and who request and receive electric generation service from either the SSO or a qualified CRES Provider. Generally, it represents the consolidation of GS-1, GS-2, GS-3, and GS-4 tariffs, consolidating sub-transmission and transmission voltage customers, eliminating off-peak demand
provisions, and combining elements of both the non-demand and demand tariffs to establish a single tariff. This consolidation of tariffs includes non-demand and demand tariffs. The Applicant has designed this tariff to accommodate customers that currently are non-demand using an energy charge for the first $4,500 \mathrm{kWh}$. Once a customer goes over the $4,500 \mathrm{kWh}$ they are no longer charged an energy charge. The demand charge is not charged until a customer goes over 10 kW . Therefore, once the kWh used is over $4,500 \mathrm{kWh}$ there is no energy charge and the kW demand charge will be $\$ 0$ from 0 kW to 10 kW . This design prevents customers from having to switch tariffs if their usage fluctuates.

## Unmetered Service Provision

The General Service schedule includes an Unmetered Service Provision. This is available at the option of the Company for loads consisting of small fixed electric loads such as traffic signals and signboards which can be served by a standard service drop from the Company's existing secondary distribution system.

The Applicant is maintaining the same block structure. Table 15 compares the current, Applicantproposed, and Staff-proposed rates for customers currently served under Ohio Power's GS-1- Unmetered schedule. Customers currently pay a customer charge of $\$ 7.35$ and an energy charge of $\$ 0.0027999$ for all kWh . The Applicant proposes a customer charge of $\$ 6.30$ and an energy charge of $\$ 0.0215502$ for all kWh . To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0180553 / \mathrm{kWh}$.

Table 15
Schedule GS - Unmetered

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed | Increase | Proposed Increase |  |
| OPCo GS-1 - Unmetered | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 7.35 | 6.30 | -14.29 | 6.30 | -14.29 |
| Energy Charge: All kWh | 0.0027999 | 0.0215502 | 669.68 | 0.0180553 | 544.86 |

## Secondary Service Voltage

The General Service schedule includes rates for Secondary Service Voltage. This rate is available for general service to non-residential customers served under secondary voltage and who request and receive electric generation service from either the SSO or a qualified CRES Provider.

The Applicant will serve customers currently receiving secondary voltage service under GS-1, GS-2, and GS-3 tariffs under the proposed General Service schedule secondary service voltage rates.

Table 16 compares the current, Applicant-proposed, and Staff-proposed rates for customers currently served under Ohio Power's GS-2- Secondary schedule. Customers currently pay a customer charge of $\$ 22.79$ and a demand charge of $\$ 4.16$ for all kW. The Applicant proposes a customer charge of $\$ 10.45$ and an energy charge of $\$ 0.0215502$ on the first $4,500 \mathrm{kWh}$. Any kWh over 4,500 would not be billed. However, customers will be billed a demand charge of $\$ 7.29$ per kW over 10 kW . To achieve Staff's proposed revenue, Staff is proposing an energy of $\$ 0.0180553 / \mathrm{kWh}$ for the first 4500 kWh , a demand charge of $\$ 6.10 / \mathrm{kW}$ over 10 kW , and an excess demand charge of $\$ 1.19$ per kVA.

Table 16
Schedule GS - Secondary

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed | Increase | Proposed |  |
| Increase |  |  |  |  |  |
| OP GS-2 - Secondary | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 22.79 | 10.45 | -54.15 | 10.45 | -54.15 |
| Energy Charge - First 4500 kWh | $\mathrm{N} / \mathrm{A}$ | 0.0215502 | $\mathrm{~N} / \mathrm{A}$ | 0.0180553 | $\mathrm{~N} / \mathrm{A}$ |
| Energy Charge - Over 4500 kWh | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Demand Charge (per kW) - First 10 kW | 4.16 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Demand Charge (per kW) - Over 10 kW | 4.16 | 7.29 | 75.24 | 6.10 | 46.63 |
| Off Peak Excess Demand Charge | 4.16 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Excess Demand Charge (\$ per kVA) | 3.82 | 1.39 | -63.61 | 1.19 | -68.85 |

## Primary Service Voltage

The General Service schedule includes rates for Primary Service Voltage. This rate is available for general service to non-residential customers served under primary voltage and who request and receive electric generation service from either the SSO or a qualified CRES Provider.

Table 17 compares the current, Applicant-proposed, and Staff-proposed rates for customers currently served under Columbus Southern Power's GS-3 Primary schedule. Customers currently pay a customer charge of $\$ 115.29$ and a demand charge of $\$ 3.183$ for all kW . The applicant proposes a customer charge of $\$ 154.30$ and an energy charge of $\$ 0.0150584$ on the first $4,500 \mathrm{kWh}$. Any kWh over 4,500 would not be billed. However, customers will be billed a demand charge of $\$ 6.64$ per kW over 10kW. To achieve Staff's proposed revenue, Staff is proposing an energy of $\$ 0.0126732 / \mathrm{kWh}$ for the first 4500 kWh , a demand charge of $\$ 5.59 / \mathrm{kW}$ over 10 kW , and an excess demand charge of $\$ 1.15$ per kVA.

Table 17
Schedule GS - Primary

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed | Increase | Proposed Increase |  |
| CSP GS-3 Primary | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 115.29 | 154.30 | 33.84 | 154.30 | 33.84 |
| Energy Charge - First 4500 kWh | $\mathrm{N} / \mathrm{A}$ | 0.0150584 | $\mathrm{~N} / \mathrm{A}$ | 0.0126732 | $\mathrm{~N} / \mathrm{A}$ |
| Energy Charge - Over 4500 kWh | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Demand Charge (per kW) - First 10 kW | 3.183 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Demand Charge (per kW) - Over 10 kW | 3.183 | 6.64 | 108.61 | 5.59 | 75.62 |
| Off Peak Excess Demand Charge | 3.183 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Excess Demand Charge (\$per kVA) | 0.835 | 1.35 | 61.68 | 1.15 | 37.72 |

## Transmission Service Voltage

The General Service schedule includes rates for Transmission Service Voltage. This rate is available for general service to non-residential customers served under transmission voltage and who request and receive electric generation service from either the SSO or a qualified CRES Provider. The applicant's rate design eliminates any differences between the sub-transmission and transmission voltage customers.

Table 18 compares the current, Applicant-proposed, and Staff-proposed rates for customers currently served under Ohio Power's GS-3 Subtransmission. Customers currently pay a customer charge of \$512.00 and an excess demand charge of $\$ 3.82$ for all kVA. The Applicant proposes a customer charge of $\$ 825.00$, a demand charge of $\$ 2.35$ per kW up to $2,000 \mathrm{~kW}$, and an excess demand charge of $\$ 0.78$ for all kVA. To achieve Staff's proposed revenue, Staff is proposing a demand charge of $\$ 1.91$ per kW up to $2,000 \mathrm{~kW}$ and an excess demand charge of $\$ 0.66$.

Table 18
Schedule GS - Transmission

|  |  | Applicant |  | Staff <br> Increase |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proposed Increase |  |  |  |  |
| OP GS-3 Subtransmission | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 512.00 | 825.00 | 61.13 | 825.00 | 61.13 |
| Demand Charge (per KW up to 2,000 kW) | $\mathrm{N} / \mathrm{A}$ | 2.35 | $\mathrm{~N} / \mathrm{A}$ | 1.91 | $\mathrm{~N} / \mathrm{A}$ |
| Excess Demand Charge (\$ per kVA) | 3.82 | 0.78 | -79.58 | 0.66 | -82.72 |

## Recreational Lighting Service

The General Service schedule includes rates for Recreational Lighting Service. This rate is available to customers for separately metered non-profit outdoor recreational facilities.

Table 19 compares the current, Applicant-proposed, and Staff-proposed rates for customers currently served under Ohio Power's GS-2 Recreational Lighting Service. Customers currently pay a customer charge of $\$ 17.23$ and an energy charge of $\$ 0.0125784$ for all kWh . The Applicant proposes a customer charge of $\$ 10.45$ and an energy charge of $\$ 0.0215502$ for all kWh . To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0180553 / \mathrm{kWh}$.

Table 19
Schedule GS - Recreation Lighting Service

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed |  |  |  |
| Increase | Proposed Increase |  |  |  |  |
| Customer Charge | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Energy Charge (per kWh) | 17.23 | 10.45 | -39.35 | 10.45 | -39.35 |
|  | 0.0125784 | 0.0215502 | 71.33 | 0.0180553 | 43.54 |

## Schedule GS-TOU - General Service Time-of-Use

This rate is available for general service to customers with maximum demands less than 10 kW through one single-phase, multi-register meter capable of measuring electrical energy consumption during variable pricing periods. Availability is restricted to customers served by the circuits designated for the Company's gridSMART program with an AMI meter.

The Applicant's customers currently receiving service under Schedules GS-TOD, GS-1 ES, GS-2 ES, GS-2TOD and GS-2 LMTOD would be served under Schedule GS-TOD - General Service - Time-of-Day. This schedule is in the process of elimination and withdrawn except for the present installation of customers receiving service on the effective date of the tariff. The proposed rates for Schedule GS-TOD are consistent with Schedule GS-TOU.

Table 20 shows the Applicants proposed customer charge and energy charge compared to Staff's proposed rates for customers currently served under Ohio Power's GS-TOD schedule. Customers currently pay a customer charge of $\$ 22.79$, an on peak energy charge of $\$ 0.0227282 / \mathrm{kWh}$, and an off-peak energy charge of $\$ 0.0003512 / \mathrm{kWh}$. The Applicant proposes a customer charge of $\$ 10.45$ and an energy charge of $\$ 0.0215502$ for all kWh. To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0180553 / \mathrm{kWh}$.

Table 20
Schedule GS -TOU

|  |  | Applicant |  | Staff <br> Increase |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Proposed |  |  |  |  |  |
|  | Current | Proposed |  |  |  |
| OP GS-TOD | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 22.79 | 10.45 | -54.15 | 10.45 | -54.15 |
| Energy Charge (per kWh) | $\mathrm{N} / \mathrm{A}$ | 0.0215502 | $\mathrm{~N} / \mathrm{A}$ | 0.0180553 | $\mathrm{~N} / \mathrm{A}$ |
| On Peak Energy Charge (per kWh) | 0.0227282 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Off peak Energy Charge (per kWh) | 0.0003512 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |

## Schedule GS-Fairs - County and Independent Fairs

This rate is available for general service to Ohio Agricultural County and Independent Fairs.
Table 21 compares the current, Applicant-proposed, and Staff-proposed rates for customers currently served under Ohio Power's County and Independent Fairs schedule. For secondary voltage, the Applicant is proposing to decrease the customer charge from $\$ 22.79$ to $\$ 10.45$ and increase in the energy charge from $\$ 0.016749 / \mathrm{kWh}$ to $\$ 0.0215502 / \mathrm{kWh}$. To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ .0 .0180553 / \mathrm{kWh}$. For primary voltage, the Applicant is proposing to increase the customer charge from $\$ 95.47$ to $\$ 154.30$ and increase in the energy charge from $\$ 0.012805 / \mathrm{kWh}$ to $\$ 0.0150584 / \mathrm{kWh}$. To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0126732 / \mathrm{kWh}$.

Table 21
Schedule GS - Fair

|  |  | Applicant |  | Staff <br> Increase |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Proposed Increase |  |  |  |  |  |
| Cecondary Voltage | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 22.79 | 10.45 | -54.15 | 10.45 | -54.15 |
| Energy Charge (per kWh) | 0.016749 | 0.0215502 | 28.67 | 0.0180553 | 7.80 |
| Primary Voltage | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge | 95.47 | 154.30 | 61.62 | 154.30 | 61.62 |
| Energy Charge (per kWh) | 0.012805 | 0.0150584 | 17.60 | 0.0126732 | -1.03 |

Schedule EHG - Electric Heating General
This rate is available for the entire requirements of general service customers who have installed and in regular active use electric heating equipment which supplies the entire space heating of the customer's premises and take service from either the SSO or a qualified CRES Provider. This schedule is in the process of elimination and withdrawn except for the present installation of customers receiving service on the effective date of the tariff.

Table 22 compares the current, Applicant-proposed, and Staff-proposed rates for customers. The Applicant is proposing to decrease the customer charge from $\$ 21.96$ to $\$ 10.45$ and increase in the energy charge from $\$ 0.0132863 / \mathrm{kWh}$ to $\$ 0.0145809 / \mathrm{kWh}$ and an increase in the demand charge from $\$ 1.18 / \mathrm{kW}$ to $\$ 7.29 / \mathrm{kW}$ over 30 kW . To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0122071 / \mathrm{kWh}$ and a demand charge of $\$ 6.10 / \mathrm{kW}$ over 30 kW .

Table 22
Schedule EHG

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed | Increase | Proposed | Increase |
| Customer Charge | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Energy Charge: All kWh | 21.96 | 10.45 | -52.41 | 10.45 | -52.41 |
| Demand Charge (per kW) - Over 30 kW | 0.0132863 | 0.0145809 | 9.74 | 0.0122071 | -8.12 |

Schedule EHS - Electric Heating Schools
This rate is available to primary and secondary schools for which the entire electrical requirement is furnished by the Company, and such electrical requirement includes all cooling (if any) in the entire school and electric heating for all of (or in addition to) the school and take service from either the SSO or a qualified CRES Provider. This schedule is in the process of elimination and withdrawn except for the present installation of customers receiving service on the effective date of the tariff.

Table 23 compares the current, Applicant-proposed, and Staff-proposed rates for customers. The Applicant is proposing to introduce a customer charge of $\$ 10.45$ to replace the minimum bill charge of $\$ 12.22$, and an increase in the energy charge from $\$ 0.0021744 / \mathrm{kWh}$ to $\$ 0.0215502 / \mathrm{kWh}$. To achieve Staff's proposed revenue, an energy charge of $\$ 0.0180553 / \mathrm{kWh}$ would apply under the Applicant's proposed rate design. However, to minimize total bill impacts for the sole customer on this tariff, Staff proposes reducing the energy charge in half to $\$ 0.0090277 / \mathrm{kWh}$.

Table 23
Schedule EHS

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed Increase | Proposed | Increase |  |
|  | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Customer Charge* | 12.22 | 10.45 | -14.48 | 10.45 | -14.48 |
| Energy Charge: All kWh | 0.0021744 | 0.0215502 | 891.09 | 0.0090277 | 315.18 |

* Customer Charge is a minimum charge


## Schedule SS - School Service

This rate is available to primary and secondary school, college and university buildings for which the entire electrical requirement is furnished by the Company and take service from either the SSO or a qualified CRES Provider. This schedule is in the process of elimination and withdrawn except for the present installation of customers receiving service on the effective date of the tariff.

Table 24 compares the current, Applicant-proposed, and Staff-proposed rates for customers. The Applicant is proposing to decrease the customer charge from $\$ 31.84$ to $\$ 10.45$, and an increase in the
energy charge from $\$ 0.0124738$ to $\$ 0.0215502$. To achieve Staff's proposed revenue, Staff is proposing an energy charge of $\$ 0.0180553 / \mathrm{kWh}$.

Table 24
Schedule SS

|  |  | Applicant |  | Staff |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current | Proposed | Increase | Proposed Increase |  |
| Customer Charge | $\$$ | $\$$ | $\%$ | $\$$ | $\%$ |
| Energy Charge: All kWh | 31.84 | 10.45 | -67.18 | 10.45 | -67.18 |
|  | 0.0124738 | 0.0215502 | 72.76 | 0.0180553 | 44.75 |

## Schedule AL - Area Lighting

The Area Lighting rate is available to residential and general service customers where appropriate existing secondary distribution facilities are readily available for the lighting of private areas and who request and receive electric generation service from either the SSO or a qualified CRES Provider. This service is not available for street and highway lighting.

The Applicant is proposing to remove the facilities charge, which reduces the current revenue by $\$ 1,846,269$. The Applicant is then using the percentage increase in the proposed revenue requirement after removing the facilities charge revenue from the current revenue for area lighting which equates to a $56 \%$ percent increase to each rate. Staff agrees with this methodology, but when applying it the Staff recommended revenue requirement the percentage decreases to a $32.7 \%$ increase for each rate.

## LED Lights

The Area Lighting schedule includes LED Lights rates. The Applicant is planning a complete transition of its lighting equipment to LED over 5 years. The rate schedules will simplify the current lighting tariff into uniform charges by lamp type and eliminating all existing facility charges as described in Company witness Roush's testimony. The new LED rates have been designed to anticipate the cost of the transition.

## Schedule SL - Street Lighting

The Street Lighting rate is available for street lighting service to municipalities, townships, counties and other governmental subdivisions supplied through Company-owned facilities and who request and receive electric generation service from either the SSO or a qualified CRES Provider.

The Applicant is proposing to remove the facilities charge, which reduces the current revenue by $\$ 468,116$. The Applicant is then using the percentage increase in the proposed revenue requirement after removing the facilities charge revenue from the current revenue for street lighting which equates to a $22 \%$ percent increase to each rate. Staff agrees with this methodology, but when applying the Staff recommended revenue requirement the percentage decreases to a $2.5 \%$ increase for each rate.

## LED Lights

The Street Lighting schedule includes LED Lights rates. The Applicant is planning a complete transition of its lighting equipment to LED over 5 years. The rate schedules will simplify the current lighting tariff into uniform charges by lamp type and eliminating all existing facility charges as described in Company witness Roush's testimony. The new LED rates have been designed to anticipate the cost of the transition.

## SERVICE MONITORING AND ENFORCEMENT

The Service Monitoring and Enforcement Department (SMED) contains three Divisions. The Facilities and Operations Field Division (FOFD) inspects utility facilities to ensure regulated utility service providers operate and maintain their systems to allow safe, reliable and quality service. The Reliability and Service Analysis Division (RSAD) ensures regulated utilities are providing reliable service and meet the requirements of Ohio Admin. Code 4901:1-10. The Consumer Services Division (CSD) investigates consumer inquires and complaints and conducts Customer Service Audits.

Below is a summary of SMED Staff's investigations and findings.
Ohio Adm.Code 4901:1-10-04 Voltage measurements, system voltage and frequency requirements. Staff performed one audit of the Company's voltage measuring equipment testing and calibration program in 2019. The audit concluded the Company's voltage measuring equipment is returned to the equipment manufacturer on a scheduled basis to ensure compliance with the National Institute of Standards and Technology.

Ohio Adm.Code 4901:1-10-05 Metering
Staff performed one audit of the Company's metering and meter calibration program in 2019. The audit concluded the Company used customer meters that complied with American National Standards Institute (ANSI) standards and were appropriately tested and calibrated.

## Ohio Adm.Code 4901:1-10-06 National Electrical Safety Code

Staff completed 344 field inspection days during 2019 to assess the Company's compliance with the 2017 edition of the American National Standard Institute's (ANSI) "National Electrical Safety Code". These inspections consisted of field evaluations of Company physical facilities. Staff identified and submitted 284 recommended corrective actions to the Company during 2019, 12 associated with substations, 8 with vegetation clearance, 28 with the condition of underground facilities, and 236 with poles and overhead wiring. Each of these recommended corrective actions were responded to appropriately by the Company and Staff does not recommend any further action.

Ohio Adm.Code 4901:1-10-10 Distribution System Reliability
Per Ohio Adm.Code 4901:1-10-10(C), each electric utility is required to annually submit a report (Rule 10 Report) of its performance along with supporting data for service reliability indices SAIFI (System Average Interruption Frequency Index) and CAIDI (Customer Average Interruption Duration Index).

|  | 2019 |  | 2018 |  | 2017 |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Standard | Performance | Standard | Performance | Standard | Performance |
| CAIDI | 148.00 | 140.98 | 149.00 | $150.32^{*}$ | 150.00 | 146.02 |
| SAIFI | 1.18 | $1.20^{*}$ | 1.19 | $1.30^{*}$ | 1.20 | 1.15 |

*denotes missed standard

Per Ohio Adm.Code 4901:1-10-10(D), if a utility's annual performance does not meet that utility's performance standard for either index, the utility shall submit an action plan outlining factors which contributed to the failure as well as a proposal for improving performance. As noted in the table above,

Ohio Power missed its CAIDI and SAIFI standards in 2018 and missed its SAIFI standard in 2019, and action plans were provided to Staff for each of the misses.

Per Ohio Adm.Code 4901:1-10-10(E), the Company's failure to meet the SAIFI standard for two consecutive years constitutes a violation of this rule, and the Company was issued a letter of probable non-compliance addressing the violation. However, Staff notes that the SAIFI standard was missed by a relatively small margin and the performance against both standards was greatly improved from 2018 to 2019.

Ohio Adm.Code 4901:1-10-11 Distribution circuit performance
Per Ohio Adm.Code 4901:1-10-11(C)(1), each electric utility is required to annually submit a report (Rule 11 Report) of its eight percent worst performing circuits. Staff reviews the worst performing circuit report both holistically and on an individual-circuit basis. Per Ohio Adm.Code 4901:1-10-11(F), the inclusion of any circuit on the report for three consecutive years or more creates a rebuttable presumption of a violation of the rule.

|  | Circuits <br> Reported | Repeat <br> Circuits | SAIFI | SAIDI |
| :--- | :---: | :---: | :---: | :---: |
| 2019 | 127 | 10 | 3.58 | 767.94 |
| 2018 | 130 | 4 | 3.52 | 669.59 |
| 2017 | 126 | 5 | 3.09 | 606.55 |

Staff notes that while the company reported ten repeat circuits in 2019, eight were reported for only each of the last three years, one was reported for each of the last four, and one was reported for each of the last five years. Staff monitors the Company's progress on remedial action plans intended to address reliability on all worst performing circuits.

Staff completed 19 inspection days during 2019 to assess the Company's actions towards improving reliability of their worst performing eight percent of their electrical distribution circuits. Inspectors reviewed the Company's Rule 11 Report and other records and performed field verifications of remedial work conducted by the Company. Staff concluded the Company had substantially complied with its plan to improve circuit performance.

Ohio Adm.Code 4901:1-10-27 Inspection, Maintenance, Repair, and Replacement Programs
Per Ohio Adm.Code 4901:1-10-27(D)(4), each electric distribution utility is required to annually submit a report (Rule 27 Report) listing all distribution circuits and substations inspected during the reporting year (including those added or retired) and the date(s) that such inspection(s) were performed. Per 4 Ohio Adm.Code 901:1-10-27(D)(1), all distribution circuits and equipment are to be inspected at least once every five years. Per Ohio Adm.Code 4901:1-10-27(D)(3), all substations are to be inspected twelve times annually with no inspection interval exceeding forty calendar days between inspections.

The Company reported an average of 466 active distribution substations each year. In the last three years, the Company reported ten retired substations and five new substations. In 2018, ten inspection intervals were found to exceed forty days and the Company was issued a letter of probable noncompliance. With the exception of those ten inspections, Staff has found that substation inspections for the last three years were conducted in accordance with Rule 27.

The Company has approximately 1550 active overhead circuits subject to inspection and reported an average of 315 inspections each year. In the last three years, the Company reported twenty-five retired circuits and thirty-six new circuits. Staff has found all circuit inspections for the last three years were conducted in accordance with Rule 27.

Ohio Admi.Code 4901:1-10-27(E)(1) requires electric utilities to establish, maintain, and comply with written programs, policies, procedures and schedules for the inspection, maintenance, repair and replacement of transmission and distributions circuits and equipment.

Staff conducted an audit of the Company's records associated with its poles and towers inspection and replacement program, circuit and line inspection program, and vegetation management program in 2019. This audit concluded the Company was generally in compliance with the applicable requirements of the Ohio Administrative Code. Staff also conducted 87 field inspection days during 2019 to verify Company infrastructure was maintained according to Company procedures and in good repair.

## Customer Service Audit

In April 2019, Staff completed an audit of the customer service performance, practices, and procedures of the Company. As a result of the audit, Staff determined that the overall customer service practices and policies of the Company, as reviewed and observed by the team, comply with the applicable rules and regulations set forth by the Commission.

Staff reviewed the 3,359 customer contacts to the PUCO's call center for the period of January 1, 2019 through December 31, 2019 that were related to the Company's services. Customer concerns about disconnection issues or payment arrangements constituted the largest number of contacts, with 700 contacts for the period. Most customers were seeking information about pending disconnections, medical certificates, available payment arrangements and/or issues related to the Commission's winter reconnect order. The next largest category of contacts was billing issues, with 517 contacts. This category includes contacts regarding high bill concerns, back billing, or final/initial billing questions. Contacts regarding PIPP Plus and assistance programs were the third largest category, with 329 contacts. Two hundred and thirtyfive customers contacted the Consumer Services Division before calling the Company. Most of these customers sought account information, and Staff directed these contacts back to the Company in order to allow the Company the first opportunity to respond to its customers. One hundred and twenty-three customers had service issues or inquiries, including 10 customers who voiced concerns about the quality of the Company's customer service.

Three hundred and seven customers called with questions regarding retail service providers. Of those, one hundred and seventy-seven were requesting information from Ohio's "Apples to Apples" shopping tool while residing in the Company's territory. It should also be noted that the Consumer Services Division reaches out to the Company for documentation around retail energy supplier pricing and enrollment data for other contacts within the Company footprint.

Forty-two contacts were customers commenting on actions or decisions made by the Commission as it relates to the Company's cases. Staff received 41 contacts regarding rates and tariffs during the time period reviewed.

The remaining contacts included miscellaneous items, such as questions or concerns regarding deposits, Company policies, or non-jurisdictional matters.

## MANAGEMENT AND OPERATIONS REVIEW

Ohio Revised Code 4909.154 states that the Commission shall consider the management policies, practices, and organization of public utilities in fixing the just, reasonable, and compensatory rates, joint rates, tolls, classification, charges, or rentals to be observed and charged for service by any public utility.

Ohio Adm.Code 4901-7-01, Appendix A requires medium and large utilities to include in their rate filings a concisely written summary of their management policies, practices, and organization. Among other things, the summary is to include a discussion of policy and goal setting, strategic and long range planning, organization structure, decision making and controlling, and communications for the Company's executive management process (Schedule S-4.1) as well as for functional areas common to most electric utility companies (Schedule S-4.2).

Staff routinely reviews Schedule S-4.1 and Schedule S-4.2, applicant performance, and various events relating to the Applicant's management. As a result of these review activities, Staff selects certain management topics for rate case reporting. In the current rate case, Staff reports on the processes used by the Company regarding capital spares and vegetation management.

## Capital Spares

Staff identified AEP Ohio's capital spares program as one area for a management and operations review. For purposes of this case, Staff specifically focused its review on the decision-making for the types and level of capital spares maintained by AEP Ohio in the area of spare transformers, mobile transformers and skids (transformers on trailers). Spare transformers and mobile transformers are used to provide power to customers in the event of equipment failure, potential overloading, or planned maintenance to the electric distribution substation. Due to their complex nature this type of plant tends to be a higher cost asset that has a long procurement time.

AEP Ohio's distribution transformers are under the direction of AEP Transmission. One of AEP Transmission's guiding tools to assist in managing the spares fleet is the Transmission Capital Asset Sparing Strategy (Sparing Strategy). Fundamentally, the Sparing Strategy utilizes the Poisson Binary Statistical Method (which uses the age, failure rate, and asset type as data inputs) to determine how many and what type of spares to maintain.

Staff reviewed the information provided for each spare transformer currently in service in Ohio. From a review of the type, age and location of AEP Ohio's spare substation transformers, it appears that AEP Ohio is maintaining the Spare Substation Transformer asset in a balanced manner overall. Even with the large purchase of spare transformers in the last three years, the overall spare transformer inventory seems to be in alignment with respect to the industry average service life of approximately 30 years. Staff does not believe it is necessary to replace spare transformers once they reach and average service life of 30 years as many are in service, and are ready to serve, that are well beyond their average service life (ASL). Staff recommends that AEP Transmission, and AEP Ohio, continue to rely on regular maintenance testing and results and the actual failure rate as a guide in the purchase of spare transformers.

Staff recommends that any spare should be subjected to actual testing before it is replaced. While the analytical tools employed by Ohio Power are reasonable predicters of assets that may have a higher risk of failure on average, the mobile or spare transformer should still be tested before it is replaced.

The Spare Strategy recently increased the failure risk by $2 \%$ for soil conditions and by $2 \%$ for acts of terror although no actual data or support for the increase is provided. Although the Spare Strategy indicates that the soil risk factor would be reassessed as more data becomes available, Staff notes that the risk factors were increased without incidents (data) to support the change. Therefore, Staff recommends that these two risk factors should be reduced back to original levels and reassessed once actual data becomes available.

Staff also reviewed the state of AEP Ohio's mobile transformer fleet. While overseen by AEP Transmission the mobile transformer fleet is not subject to Poisson modeling. Rather, historic usage rates and the useful life are used to determine the number of mobile transformers and skids that are purchased. AEP Ohio witness Ali further states that, "future mobile transformers and skids will be purchased on an as-need basis." AEP Ohio also recently engaged the services Ohio Transformer, a manufacturer, remanufacturer and repairer of transformers to provide an assessment of AEP Ohio's mobile fleet. AEP Ohio shared the results of the assessment provided by Ohio Transformer. According to AEP Ohio, the mobiles which were able to be repaired were repaired and those that were assessed to be beyond repair were retired. Staff notes that approximately 63 percent of the mobile fleet is older than the 30 average service life of a mobile. With such a recent assessment of AEP Ohio's mobile fleet demonstrating that many mobile transformers remain in good operating condition beyond the industry ASL, Staff recommends that AEP Ohio (AEP Transmission) not base its replacement of the mobiles on the ASL alone, but rather have the individual mobiles independently assessed and the results of the assessment be used to guide future purchases. Staff also notes that the more recently purchased mobile transformers are for Eastern Ohio substations, an area where there were very few mobile transformers. If AEP Ohio wishes to expand or adjust the criteria on which it bases the replacement or additions of mobile transformers, the change should be established within the Sparing Strategy document and such change noticed to Staff.

Staff also believes that the actual usage of the mobile transformers, by serial number, should be documented. Documentation should include start and end dates of each engagement, reason for the engagement, the substation of where the mobile was used and the name of the EDU engaging in the use of the mobile transformer if it is used by another AEP company.

Because the purchase of skids is done on the same basis of mobile transformers, Staff's recommendations regarding mobile transformers apply to skids.

## Vegetation Management

Another area selected for a management and operations review is AEP Ohio's vegetation management program. Staff's review encompassed the processes and controls surrounding the identification and confirmation of needed activity, its execution, and the associated accounting controls and cost recovery.

Currently, AEP Ohio has two distinct vegetation management programs; one associated with routine cyclical ROW circuit maintenance, and one associated with Danger Tree ${ }^{30}$ removal. With respect to the

[^16]cyclical vegetation management program, AEP Ohio plans the circuits to be remediated and utilizes vegetation contractors to conduct the actual remediation. AEP Ohio instructs the vegetation contractor in how to document its activity and the standards it must use while engaged in the vegetation remediation activity. AEP Ohio utilizes timesheets and field audits to as the validation of the expenses associated with the contractor's work. Specifically, for end-to-end circuit clearing audits each circuit receives a complete audit to ensure the entire circuit has been worked. For quality and clearance audits two spans of the circuit's work will be audited. For routine vegetation maintenance activity, Staff finds AEP Ohio's control measures associated with the routine cyclical vegetation management program to be sufficient.

AEP Ohio also currently has a Danger Tree program associated with the removal of vegetation that may threaten AEP Ohio's distribution line equipment. Specifically, AEP Ohio's Danger Tree Program has been targeted to circuits which are experiencing a high SAIDI or have a high number of outages caused by trees outside the right of way (ROW). Going forward all vegetation management is to be expensed per the Stipulation in Case No. 18-230-EL-RDR, except that associated with the establishment of ROW or the establishment of the expanded ROW, Staff recommends that the AEP Ohio forestry contractors and forestry auditors continue to delineate not only the number of trees removed, but also whether the tree is a Danger Trees outside of the Right of Way and or whether it is a tree inside the Right of Way.

Currently, the delineation between capital and expense activities on end to end circuit clearing audits does not appear to be noted in the forester audit documentation provided to Staff. However, the number of trees removed does appear on the timesheets submitted to AEP Ohio. This is occurring because the end-to-end circuit clearing audits are focused on the total completion of the circuit as opposed to being a quality clearance audit. The number of trees removed was provided on the quality clearance audit documentation provided.

Currently, any Danger Tree is paint marked by a forestry contractor and entered onto a master sheet. This master sheet, a Smartsheet, identifies the circuits AEP Ohio intends to have remediated for Danger Trees. It contains information regarding the circuit planner, the forester contractor, the vegetation contractor, the estimated and actual start and end dates. What is does not contain is how many trees on each circuit were pre-identified as Danger Trees and the name of the entity which conducted such pre-identification. Staff recommends that this information be included on the Smartsheet. This will help ensure that only true definitional Danger Trees are removed. AEP Ohio also states that random visual audits are made of the Danger Tree removals and that both pre-and post-removal Danger Tree verification is performed by AEP forestry personnel during random crew visits and work inspections. However, AEP Ohio also notes that these random crew visits and audit inspections are not documented. Therefore, since AEP Ohio states that the Danger Trees are pre-identified, the inclusion of this data on the Smartsheet will provide AEP Ohio an opportunity to audit the pre-identification process and results in a meaningful manner. Postidentification audits should also be recorded on the AEP Ohio forester audit of the circuit work for quality control purposes.

Staff inquired as to the basis for declaring any vegetation greater than four inches in diameter at breast height (4" DBH) as a Danger Tree regardless of the location or height of the vegetation. AEP Ohio responded that this is rarely a distinct criteria used in its removal; that vegetation of this size is only removed if it is necessary to clear a path for another tree's removal; or potentially when in the process of clearing for expanded ROW trees of this size outside the ROW get removed. AEP Ohio states that if it believes a 4" DBH and could cause a power issue, it could also be removed. Staff notes that AEP Ohio has stated that it removes very few trees of 4" DBH outside the right of way. After considering the Company's
responses, Staff does not believe AEP Ohio has provided a credible reason for the blanket removal of 4"DBH vegetation as found in AEP Ohio's vegetation policy. However, Staff declines at this time to make a recommendation to AEP Ohio for a policy change other than the pre-identification of a 4" DBH outside ROW tree should be specifically noted on the Smartsheet. Although all vegetation costs, except for the establishment of a new or expanded ROW is to be expensed going forward, this documentation will help determine if unnecessary expenditures are occurring.

Staff also reviewed the accounting control for the capitalization of the two-herbicide application method associated with the initial establishment of a ROW where root suckering would necessitate the second application of herbicide. Specifically, Staff sought an understanding for how the second application of herbicide in the two-herbicide application method is confirmed to be associated with the first application and therefore capitalized. AEP Ohio, in its response, noted that the second application is rarely used, but that if it is used, it would be completed within two years of the establishment of ROW and that the activity is linked to the original work order. Staff believes this control process is adequate to address its concerns that a second stage of initial clearing is clearly linked to the establishment of new or expanded ROW. Lastly, Staff notes in the Stipulation approved in Case No. 18-230-EL-RDR. AEP Ohio committed to expensing all vegetation management costs other than those associated with the initial establishment of a ROW and the initial establishment of an expansion of the ROW.

Lastly, Staff recommends that AEP Ohio be required to submit to the Commission the updated Accounting Policy and Procedure that reflects the changes recommended by Staff as well as any documentation used by field personnel or auditors to implement the recommendations.

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Overall Financial Summary
Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Schedule A-1
Page 1 of 1

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | DESCRIPTION | SUPPORTING SCHEDULE REFERENCE | COMPANY PROPOSED AMOUNT |  | STAFF |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | LOWER BOUND |  | UPPER BOUND |  |
| (A) | (B) | (C) |  | (D) |  |  |  |  |
| 1 | Rate Base as of Date Certain | B-1 | \$ | 3,105,270 | \$ | 2,902,965 | \$ | 2,902,965 |
| 2 | Current Operating Income | C-1 | \$ | $(66,763)$ | \$ | 23,100 | \$ | 23,100 |
| 3 | Earned Rate of Return (Line 2/Line 1) |  |  | -2.15\% |  | 0.80\% |  | 0.80\% |
| 4 | Requested Rate of Return | D-1 |  | 7.90\% |  | 7.15\% |  | 7.70\% |
| 5 | Required Operating Income (Line $1 \times$ Line 4) |  | \$ | 245,316 | \$ | 207,562 | \$ | 223,528 |
| 6 | Operating Income Deficiency (Line 5-Line 2) |  | \$ | 312,079 | \$ | 184,462 | \$ | 200,429 |
| 7 | Gross Revenue Conversion Factor | A-2 |  | 1,288 |  | 1.285 |  | 1.285 |
| 8 | Revenue Deficiency (Line $6 \times$ Line 7) |  | \$ | 402,086 | \$ | 237,097 | \$ | 257,620 |
| 9 | Revenue Increase Requested Before Mirror | C-1 | \$ | 402,086 | \$ | 237,097 | \$ | 257,620 |
| 10 | Adjusted Operating Revenues | C-1 | \$ | 663,790 | \$ | 664,331 | \$ | 664,331 |
| 11 | Revenue Requirements (Line $9+10$ ) |  | \$ | 1,065,876 | \$ | 901,429 | \$ | 921,951 |
| 12 | Net Increase (Line 9 / Line 10) |  |  | 61\% |  | 36\% |  | 39\% |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Computation of Gross Revenue Conversion Factor
Test Year: Twelve Months Ended November 30, 2020

| $\begin{gathered} \hline \text { LINE } \\ \text { NO } \end{gathered}$ | DESCRIPTION |  | \% OF INCREMENTAL GROSS REVENUES |
| :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) |
| 1 | Gross Revenue |  | 100.000\% |
| 2 |  |  |  |
| 3 | Less: |  |  |
| 4 | Uncollectible Accounts Expense | 0.480\% |  |
| 5 | Commercial Activities Tax | 0.260\% |  |
| 6 | PUCO Annual Assessment | 0.000\% |  |
| 7 | OCC Annual Assessment | 0.000\% | 0.740\% |
| 8 |  |  |  |
| 9 | Income Before Income Tax (Line 1-Line 7) |  | 99.260\% |
| 10 |  |  |  |
| 11 | Less: State and Municipal Income Tax (0.7847\% x 99.260\%) |  | 0.779\% |
| 12 |  |  |  |
| 13 | Income Before Federal Income Tax (Line 9-Line 11) |  | 98.481\% |
| 14 |  |  |  |
| 15 | Less: Federal Income Tax ( $21 \% \times 98.481364 \%$ ) |  | 20.681\% |
| 16 |  |  |  |
| 17 | Operating Income Percentage (Line 13-Line 15) |  | 77.800\% |
| 18 |  |  |  |
| 19 | Gross Revenue Conversion Factor (100\% / 77.800264\%) |  | 128.534\% |

State and Municipal Income Tax Rate
Federal Income Tax Rate
0.7847\%
21\% [a]

Notes:
[a] Statutory rate

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> <br> Jurisdictional Rate Base Summary <br> <br> Jurisdictional Rate Base Summary <br> As of December 31, 2019 <br> (\$000) 

## Work Paper Reference No (s):

Schedule B-2, B-3, B-5 \& B-6

(a) Contributions in Aid of Construction are credited to Construction Work in Progress \& Electric Plant in Service per FERC Order No. 490.

[a] Allocation is NONDIST
[b] Allocation is DIRECT

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Plant in Service by Accounts and Subaccounts as of December 31, 2019
Production Plant
(\$000)
Work Paper Reference No(s): Schedule B-2.1
WP B-2.1a \& b/u

[a] Allocation is NONDIST

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Plant in Service by Accounts and Subaccounts as Of December 31, 2019 <br> Transmission Plant <br> (\$000) 

Work Paper Reference No(s):
WP B-2.1a \& b/u
Schedule B-2.1

| $\begin{gathered} \hline \text { LINE } \\ \text { NO } \end{gathered}$ | $\begin{gathered} \hline \text { ACCT } \\ \text { NO } \end{gathered}$ | ACCOUNT TITLE |  | TOTAL COMPANY | $\begin{gathered} \text { ALLOCATION } \\ \% \end{gathered}$ | $\begin{gathered} \text { ALLOCATED } \\ \text { TOTAL } \\ \hline \end{gathered}$ |  | ADJUSTMENTS |  | ADJUSTEDJURSIDICTION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  | (D) | (E) |  |  |  |  |  |  |
| 1 | Various | Transmission | \$ | 2,683,371 | 0.00\% [a] | \$ | 0 | \$ | 0 | \$ | 0 |
| 2 |  | Total Transmission Plant | \$ | 2,683,371 |  | \$ | 0 | \$ | 0 | \$ | 0 |

[a] Allocation is NONDIST

## OHIO POWER COMPANY

## Case No. 20-585-EL-AIR

Plant in Service by Accounts and Subaccounts as of December 31, 2019
Distribution Plant
(\$000)
Work Paper Reference No(s):
Schedule B-2.1
Schedule B-2.3, WP B-2.1a \& b/u, Schedule B-2.2
Page 3 of 5

| $\begin{gathered} \hline \text { LINE } \\ \text { NO } \end{gathered}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | ACCOUNT TITLE | TOTAL COMPANY |  | ALLOCATION \% | ALLOCATED TOTAL |  | ADJUSTMENTS |  | $\begin{gathered} \text { ADJUSTED } \\ \text { JURSIDICTION } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  | (D) | (E) |  | (F) |  | G) |  | (H) |
| 1 | 360 | Land and Land Rights | \$ | 69,584 | 100.00\% [a] | \$ | 69,584 | \$ | (283) | \$ | 69,301 |
| 2 | 361 | Structures and Improvements |  | 44,738 | 100.00\% [a] |  | 44,738 |  | (796) |  | 43,942 |
| 3 | 362 | Station Equipment |  | 887,134 | 100.00\% [a] |  | 887,134 |  | $(26,375)$ |  | 860,759 |
| 4 | 363 | Storage Battery Equipment |  | 5,117 | 100.00\% [a] |  | 5,117 |  | 0 |  | 5,117 |
| 5 | 364 | Poles, Towers and Fixtures |  | 795,852 | 100.00\% [a] |  | 795,852 |  | (635) |  | 795,217 |
| 6 | 365 | Overhead Conductors and Devices |  | 894,823 | 100.00\% [a] |  | 894,823 |  | $(14,612)$ |  | 880,210 |
| 7 | 366 | Underground Conduit |  | 334,308 | 100.00\% [a] |  | 334,308 |  | (482) |  | 333,826 |
| 8 | 367 | Underground Conductors and Devices |  | 732,263 | 100.00\% [a] |  | 732,263 |  | (0) |  | 732,263 |
| 9 | 368 | Line Transformers |  | 849,973 | 100.00\% [a] |  | 849,973 |  | $(2,172)$ |  | 847,801 |
| 10 | 369 | Services |  | 345,050 | 100.00\% [a] |  | 345,050 |  | (192) |  | 344,858 |
| 11 | 370 | Meters |  | 95,062 | 100.00\% [a] |  | 95,062 |  | $(7,542)$ |  | 87,521 |
| 12 | 370.16 | AMI Meters |  | 166,562 | 100.00\% [a] |  | 166,562 |  | $(157,911)$ |  | 8,650 |
| 13 | 371 | Installations on Customers' Premises |  | 59,230 | 100.00\% [a] |  | 59,230 |  | 0 |  | 59,230 |
| 14 | 372 | Leased Property on Customer's Premises |  | 103 | 100.00\% [a] |  | 103 |  | 0 |  | 103 |
| 15 | 373 | Street Light and Signal Systems |  | 41,152 | 100.00\% [a] |  | 41,152 |  | (0) |  | 41,152 |
| 16 |  | Total Distribution Plant | \$ | 5,320,952 |  | \$ | 5,320,952 | \$ | $(211,001)$ | \$ | 5,109,951 |

[a] Allocation is DIRECT

OHIO POWER COMPANY<br>Case No. 20-585-EL-AIR<br>Plant in Service by Accounts and Subaccounts as of December 31, 2019<br>General Plant<br>(\$000)

Work Paper Reference No(s):
Schedule B-2.1
Schedule B-2.3, WP B-2.1a \& b/u, Schedule B-2.2

| $\begin{gathered} \hline \text { LINE } \\ \text { NO } \end{gathered}$ | $\begin{gathered} \hline \text { ACCT } \\ \text { NO } \end{gathered}$ | ACCOUNT TITLE |  | TOTAL COMPANY | $\begin{gathered} \text { ALLOCATION } \\ \% \end{gathered}$ |  | $\begin{aligned} & \hline \text { ALLOCATED } \\ & \text { TOTAL } \\ & \hline \end{aligned}$ | ADJUSTMENTS |  | ADJUSTEDJURSIDICTION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  | (D) | (E) |  | (F) |  |  |  | (H) |
| 1 | 389 | Land and Land Rights | \$ | 13,632 | 96.49\% [a] | \$ | 13,154 | \$ | (14) | \$ | 13,140 |
| 2 | 390 | Structures and Improvements |  | 311,124 | 80.99\% [a] |  | 251,972 |  | $(1,032)$ |  | 250,940 |
| 3 | 391 | Office Furniture and Equipment |  | 22,954 | 58.71\% [a] |  | 13,478 |  | (142) |  | 13,335 |
| 4 | 392 | Transportation Equipment |  | 128 | 9.92\% [a] |  | 13 |  | 0 |  | 13 |
| 5 | 393 | Stores Equipment |  | 1,095 | 86.82\% [a] |  | 950 |  | 0 |  | 950 |
| 6 | 394 | Tools, Shop and Garage Equipment |  | 49,800 | 59.32\% [a] |  | 29,543 |  | 0 |  | 29,543 |
| 7 | 395 | Laboratory Equipment |  | 348 | 31.22\% [a] |  | 109 |  | 0 |  | 109 |
| 8 | 396 | Power Operated Equipment |  | 7 | 73.04\% [a] |  | 5 |  | 0 |  | 5 |
| 9 | 397 | Communication Equipment |  | 127,449 | 92.58\% [a] |  | 117,989 |  | $(4,082)$ |  | 113,907 |
| 10 | 397.16 | AMI Communication Equipment |  | 2,853 | 100.00\% [a] |  | 2,853 |  | (618) |  | 2,235 |
| 11 | 398 | Miscellaneous Equipment |  | 4,631 | 57.89\% [a] |  | 2,681 |  | $(1,126)$ |  | 1,555 |
| 12 | 399 | Other Tangible Property |  | (0) | 0.00\% [a] |  | 0 |  | 0 |  | 0 |
| 13 | 399.1 | Asset Retirement Costs for General Plant |  | 776 | 99.60\% [a] |  | 773 |  | 0 |  | 773 |
| 14 |  | Total General Plant | \$ | 534,799 |  | \$ | 433,520 | \$ | $(7,014)$ | \$ | 426,505 |

[a] Allocation is DIRECT

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Plant in Service by Accounts and Subaccounts as of December 31, 2019
Intangible Plant
(\$000)
Work Paper Reference No(s):
Schedule B-2.3, WP B-2.1a \& b/u
Schedule B-2.1
Page 5 of 5

| $\begin{gathered} \hline \text { LINE } \\ \text { NO } \end{gathered}$ | $\begin{gathered} \hline \text { ACCT } \\ \text { NO } \end{gathered}$ | ACCOUNT TITLE | TOTAL COMPANY |  | ALLOCATION \% | $\begin{aligned} & \hline \text { ALLOCATED } \\ & \text { TOTAL } \end{aligned}$ |  | ADJUSTMENTS |  | ADJUSTEDJURSIDICTION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  | (D) | (E) |  | (F) |  |  |  | H) |
| 1 | 301 | Organization | \$ | 5 | 71.23\% [a] | \$ | 3 | \$ | 0 | \$ | 3 |
| 2 | 302 | Franchises and Consents |  | 641 | 100.00\% [a] |  | 641 |  | 0 |  | 641 |
| 3 | 303 | Miscellaneous Intangible Plant |  | 191,922 | 83.13\% [a] |  | 159,555 |  | $(4,242)$ |  | 155,312 |
| 4 |  | Total Intangible Plant | \$ | 192,568 |  | \$ | 160,199 | \$ | $(4,242)$ | \$ | 155,957 |

[a] Allocation is DIRECT

## OHIO POWER COMPANY

## Case No. 20-585-EL-AIR

Adjustments to Plant in Service

## December 31, 2019

(\$000)

Work Paper Reference No(s):

| $\begin{gathered} \text { LINE } \\ \text { NO } \end{gathered}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | ACCOUNT TITLE |  | $\begin{aligned} & \text { TOTAL } \\ & \text { COMPANY } \\ & \text { ADJUSTED } \end{aligned}$ | ALLOCATION \% |  | JURSIDICTIONAL ADJUSTMENT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  | (D) | (E) |  |  |  |
| 1 | 301 | Organization | \$ | 0 | 100\% | [a] | \$ | 0 |
| 2 | 302 | Franchises and Consents |  | 0 | 100\% |  |  | 0 |
| 3 | 303 | Miscellaneous Intangible |  | $(4,242)$ | 100\% |  |  | $(4,242)$ |
| 4 | 360 | Land and Land Rights |  | (283) | 100\% |  |  | (283) |
| 5 | 361 | Structures and Improvements |  | (796) | 100\% |  |  | (796) |
| 6 | 362 | Station Equipment |  | $(21,634)$ | 100\% |  |  | $(21,634)$ |
| 7 | 362.16 | Station Equipment - gridsmart |  | $(4,741)$ | 100\% |  |  | $(4,741)$ |
| 8 | 363 | Storage Battery Equipment |  | 0 | 100\% |  |  | 0 |
| 9 | 364 | Poles Towers and Fixtures |  | (635) | 100\% |  |  | (635) |
| 10 | 365 | Overhead Conductors |  | $(14,612)$ | 100\% |  |  | $(14,612)$ |
| 11 | 366 | Line Transformers |  | (482) | 100\% |  |  | (482) |
| 12 | 367 | Underground conduit |  | (0) | 100\% |  |  | (0) |
| 13 | 368 | Line Transformers |  | $(2,172)$ | 100\% |  |  | $(2,172)$ |
| 14 | 369 | Services |  | (192) | 100\% |  |  | (192) |
| 15 | 370 | Meters |  | $(7,542)$ | 100\% |  |  | $(7,542)$ |
| 16 | 370.16 | AMI Meters |  | $(157,911)$ | 100\% |  |  | $(157,911)$ |
| 17 | 370.2 | AMI Meters |  | 0 | 100\% |  |  | 0 |
| 18 | 371 | Installations on Customers' Premises |  | 0 | 100\% |  |  | 0 |
| 19 | 372 | Leased Property on Customer's Premises |  | 0 | 100\% |  |  | 0 |
| 20 | 373 | Street Lighting |  | (0) | 100\% |  |  | (0) |
| 21 | 389 | Land and Land Rights |  | (14) | 100\% |  |  | (14) |
| 22 | 390 | Structures and Improvements |  | $(1,032)$ | 100\% |  |  | $(1,032)$ |
| 23 | 391 | Office Furniture |  | (142) | 100\% |  |  | (142) |
| 24 | 392 | Transportation Equipment |  | 0 | 100\% |  |  | 0 |
| 25 | 393 | Stores Equipment |  | 0 | 100\% |  |  | 0 |
| 26 | 394 | Tools, Shop and Garage Equipment |  | 0 | 100\% |  |  | 0 |
| 27 | 395 | Laboratory Equipment |  | 0 | 100\% |  |  | 0 |
| 28 | 396 | Power Operated Equipment |  | 0 | 100\% |  |  | 0 |
| 29 | 397 | Communication Equipment |  | $(4,082)$ | 100\% |  |  | $(4,082)$ |
| 30 | 397.16 | Communication Equipment |  | (618) | 100\% |  |  | (618) |
| 31 | 398 | Miscellaneous Equipment |  | $(1,126)$ | 100\% |  |  | $(1,126)$ |
| 32 | 399 | Other Tangible Property |  | 0 | 100\% |  |  | 0 |
| 33 | 399.1 | Asset Retirement Costs for General Plant |  | 0 | 100\% |  |  | 0 |
| 34 |  | Total | \$ | $(222,258)$ |  |  | \$ | $(222,258)$ |

[a Allocation is ALLDIST

| IDENTIFICATION |  | NAME OF LEASEE |  |  | DOLLAR* | EXPLAIN | INCLUDED |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OR | DESCRIPTION OF TYPE AND USE OF PROPERTY |  | FREQUENCY | AMOUNT OF | VALUE OF | METHOD | IN |
| REFERENCE |  |  | OF | LEASE | PROPERTY | OF | RATE BASE |
| NO |  |  | PAYMENT | PAYMENT | INVOLVED | CAPITALIZATION | (YES/NO) |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) | (H) |
| 4224 | Transportation Equipment | Citizens Asset Finance Inc -Op Co | Monthly | 36,856.26 | 3,433,108.09 | FERC | No |
| 4228 | Office Furniture, Equipment | Huntington Bank | Monthly | 598.52 | 18,576.93 | FERC | No |
| 4228 | Office Equip - Computers | Huntington Bank | Monthly | 25,325.74 | 1,363,115.75 | FERC | No |
| 4228 | Transportation Equipment | Huntington Bank | Monthly | 514.33 | 46,148.51 | FERC | No |
| 4228 | Communication Equipment | Huntington Bank | Monthly | 92,242.75 | 5,046,380.43 | FERC | No |
| 4774 | Office Equip - Computers | Banc of America Leasing | Monthly | 1,031.86 | 2,361.98 | FERC | No |
| 4774 | Transportation Equipment | Banc of America Leasing | Monthly | 195,657.38 | 14,619,472.67 | FERC | No |
| 4774 | Communication Equipment | Banc of America Leasing | Monthly | 2,019.60 | - | FERC | No |
| 5987 | Office Equip - Computers | Huntington Technology Finance Inc | Monthly | 23,681.88 | 1,295,754.98 | FERC | No |
| 6167 | Office Furniture, Equipment | FRANKLIN IMAGING - REPROMAX INC | Monthly | 395.00 | 22,523.87 | FERC | No |
| LMP1115Cap | Structures and Improvements | Smart Family Partnership | Monthly | 7,000.00 | 650,000.66 | FERC | No |

[^17]
# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Reserve for Accumulated Depreciation and Amortization <br> As of December 31, 2019 <br> (\$000) 

Work Paper Reference No(s):
Schedule B-3
Schedule B-2.1

| LINE | MAJOR PROPERTY GROUPINGS \& ACCOUNT TITLES | TOTAL COMPANY PLANT INVESTMENT |  | RESERVE FOR ACCUMULATED DEPRECIATION AT DATE CERTAIN |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NO |  |  |  | TOTAL COMPNAY |  | $\begin{aligned} & \text { ALLOCATED } \\ & \text { TOTAL } \end{aligned}$ |  | ADJUSTMENTS |  | ADJSUTED JURSIDICTION |  |
| (A) | (B) | (C) |  | (D) |  | (E) |  | (F) |  | (G) |  |
| 1 | Distribution | \$ | 5,320,952 | \$ | 1,635,570 | \$ | 1,635,570 | \$ | $(25,827)$ | \$ | 1,609,743 |
| 2 | General |  | 534,799 |  | 111,931 |  | 99,837 |  | (487) |  | 99,350 |
| 3 | Other: Intangible |  | 192,568 |  | 90,552.45 |  | 74,365 |  | $(1,156)$ |  | 73208.55506 |
| 4 | TOTAL | \$ | 6,048,320 | \$ | 1,838,054 | \$ | 1,809,771 | \$ | $(27,470)$ | \$ | 1,782,302 |

## HIO POWER COMPANY

Case No. 20-585-EL-AIR
Reserve for Accumulated Depreciation and Amortization
As of December 31, 2019
Distribution Plant
(\$000)
Work Paper Reference No(s):

| LINE | ACCT | MAJOR PROPERTY GROUPINGS |  | TOTAL COMPANY |  |  | RVE FOR ACCU | MUL | ATED DEPRE | IO | DATE CER |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NO | NO | \& ACCOUNT TITLES |  | PLANT VESTMENT |  | TOTAL COMPNAY | ALLOCATION \% |  | $\begin{aligned} & \text { ALLOCATED } \\ & \text { TOTAL } \end{aligned}$ |  | MENTS |  | JUSTED IDICTION |
| (A) | (B) | (C) |  | (D) |  | (E) | (F) |  | (G) |  |  |  | (I) |
| 1 | 360 | Land and Land Rights | \$ | 69,584 | \$ | 0 | 0.00\% [a] | \$ | 0 | \$ | 0 | \$ | 0 |
| 2 | 361 | Structures and Improvements |  | 44,738 |  | 10,811 | 100.00\% [a] |  | 10,811 |  | (3) |  | 10,809 |
| 3 | 362 | Station Equipment |  | 887,134 |  | 215,145 | 100.00\% [a] |  | 215,145 |  | (282) |  | 214,863 |
| 4 | 363 | Storage Battery Equipment |  | 5,117 |  | 3,897 | 100.00\% [a] |  | 3,897 |  | 0 |  | 3,897 |
| 5 | 364 | Poles, Towers and Fixtures |  | 795,852 |  | 424,217 | 100.00\% [a] |  | 424,217 |  | (6) |  | 424,211 |
| 6 | 365 | Overhead Conductors and Devices |  | 894,823 |  | 201,559 | 100.00\% [a] |  | 201,559 |  | (394) |  | 201,165 |
| 7 | 366 | Underground Conduit |  | 334,308 |  | 60,001 | 100.00\% [a] |  | 60,001 |  | (4) |  | 59,997 |
| 8 | 367 | Underground Conductors and Devices |  | 732,263 |  | 252,425 | 100.00\% [a] |  | 252,425 |  | (0) |  | 252,425 |
| 9 | 368 | Line Transformers |  | 849,973 |  | 264,903 | 100.00\% [a] |  | 264,903 |  | (39) |  | 264,864 |
| 10 | 369 | Services |  | 345,050 |  | 150,676 | 100.00\% [a] |  | 150,676 |  | (20) |  | 150,656 |
| 11 | 370 | Meters |  | 95,062 |  | $(24,429)$ | 100.00\% [a] |  | $(24,429)$ |  | $(4,260)$ |  | $(28,690)$ |
| 12 | 370.16 | AMI Meters |  | 166,562 |  | 27,399 | 100.00\% [a] |  | 27,399 |  | $(20,819)$ |  | 6,580 |
| 13 | 371 | Installations on Customers' Premises |  | 59,230 |  | 45,946 | 100.00\% [a] |  | 45,946 |  | 0 |  | 45,946 |
| 14 | 372 | Leased Property on Customer's Premises |  | 103 |  | 77 | 100.00\% [a] |  | 77 |  | 0 |  | 77 |
| 15 | 373 | Street Light and Signal Systems |  | 41,152 |  | 22,750 | 100.00\% [a] |  | 22,750 |  | (0) |  | 22,750 |
| 16 | RWIP | Retirement Work in Progress |  | 0 |  | $(19,808)$ | 100.00\% [a] |  | $(19,808)$ |  | 0 |  | $(19,808)$ |
| 17 | Total Distribution Plant |  | \$ | 5,320,952 | \$ | 1,635,570 |  | \$ 1,635,570 |  | \$ | $(25,827)$ | \$ | 1,609,743 |

[a] Allocation is DIRECT

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Reserve for Accumulated Depreciation and Amortization
As of December 31, 2019
General Plant (\$000)

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | MAJOR PROPERTY GROUPINGS \& ACCOUNT TITLES | TOTAL COMPANY PLANT INVESTMENT |  | RESERVE FOR ACCUMULATED DEPRECIATION AT DATE CERTAIN |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | TOTAL COMPNAY |  | $\begin{gathered} \text { ALLOCATION } \\ \% \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { ALLOCATED } \\ \text { TOTAL } \end{gathered}$ |  | ADJUSTMENTS |  | ADJUSTEDJURSIDICTION |  |
| (A) | (B) | Land and Land Rights | (D) |  | (E) |  | (F) | (G) |  | (H) |  | (I) |  |
| 1 | 389 |  | \$ | 13,632 | \$ | 0 | 0.00\% [a] | \$ | 0 | \$ | 0 | \$ | 0 |
| 2 | 390 | Structures and Improvements |  | 311,124 |  | 56,584 | 94.66\% [a] |  | 53,563 |  | (127) |  | 53,436 |
| 3 | 391 | Office Furniture and Equipment |  | 22,954 |  | 5,625 | 80.97\% [a] |  | 4,555 |  | (8) |  | 4,547 |
| 4 | 392 | Transportation Equipment |  | 128 |  | 87 | 89.88\% [a] |  | 78 |  | 0 |  | 78 |
| 5 | 393 | Stores Equipment |  | 1,095 |  | 349 | 86.91\% [a] |  | 304 |  | 0 |  | 304 |
| 6 | 394 | Tools, Shop and Garage Equipment |  | 49,800 |  | 18,680 | 76.04\% [a] |  | 14,204 |  | (15) |  | 14,190 |
| 7 | 395 | Laboratory Equipment |  | 348 |  | 272 | 95.54\% [a] |  | 260 |  | 0 |  | 260 |
| 8 | 396 | Power Operated Equipment |  | 7 |  | 6 | 78.13\% [a] |  | 4 |  | 0 |  | 4 |
| 9 | 397 | Communication Equpment |  | 127,449 |  | 26,756 | 90.03\% [a] |  | 24,090 |  | (171) |  | 23,919 |
| 10 | 397.16 | AMI Communication Equpment |  | 2,853 |  | 1,804 | 100.00\% [a] |  | 1,804 |  | (47) |  | 1,757 |
| 11 | 398 | Miscellaneous Equipment |  | 4,631 |  | 2,124 | 61.88\% [a] |  | 1,314 |  | (119) |  | 1,195 |
| 12 | 399 | Other Tangible Property |  | (0) |  | 0 | 0.00\% [a] |  | 0 |  | 0 |  | 0 |
| 13 | 399.1 | Asset Retirement Costs for General Plant |  | 776 |  | 320 | 99.03\% [a] |  | 317 |  | 0 |  | 317 |
| 14 | RWIP | Retirement Work in Progress |  | 0 |  | (675) | 97.16\% [a] |  | (656) |  | 0 |  | (656) |
| 15 |  | Total General Plant | \$ | 534,799 | \$ | 111,931 |  | \$ | 99,837 | \$ | (487) | \$ | 99,350 |

[a] Allocation is DIRECT

## OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR

## Reserve for Accumulated Depreciation and Amortization

As of December 31, 2019
Intangible Plant (\$000)

Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | MAJOR PROPERTY GROUPINGS <br> \& ACCOUNT TITLES | TOTAL COMPANY PLANT INVESTMENT |  | RESERVE FOR ACCUMULATED DEPRECIATION AT DATE CERTAIN |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | TOTAL COMPNAY |  | $\begin{gathered} \text { ALLOCATION } \\ \% \\ \hline \end{gathered}$ | ALLOCATED TOTAL |  | ADJUSTMENTS |  | ADJUSTEDJURSIDICTION |  |
| (A) | (B) | (C) |  | (D) |  | (E) |  |  | (G) |  | H) |  |  |
| 1 | 301 | Organization | \$ | 5 | \$ | 0 | 0.00\% [a] | \$ | 0 | \$ | 0 | \$ | 0 |
| 2 | 302 | Franchises and Consents |  | 641 |  | 641 | 100.00\% [a] |  | 641 |  | 0 |  | 641 |
| 3 | 303 | Miscellaneous Intangible Plant |  | 191,922 |  | 89,911 | 82.00\% [a] |  | 73,724 |  | $(1,156)$ |  | 72,567 |
| 4 |  | Total Intangible Plant | \$ | 192,568 | \$ | 90,552 |  | \$ | 74,365 | \$ | $(1,156)$ | \$ | 73,209 |

[a] Allocation is DIRECT

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Adjustments to the Depreciation Reserve <br> December 31, 2019 <br> (\$000) 

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | ACCOUNT TITLE |  | TOTAL COMPANY ADJUSTED | ALLOCATION | JURSIDICTIONAL ADJUSTMENT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  | (D) | (E) |  | (F) |
| 1 | 301 | Organization | \$ | 0 | 100\% [a] | \$ | 0 |
| 2 | 302 | Franchises and Consents |  | 0 | 100\% |  | 0 |
| 3 | 303 | Miscellaneous Intangible |  | $(1,156)$ | 100\% |  | $(1,156)$ |
| 4 | 360 | Land and Land Rights |  | 0 | 100\% |  | 0 |
| 5 | 361 | Structures and Improvements |  | (3) | 100\% |  | (3) |
| 6 | 362 | Station equipment |  | (228) | 100\% |  | (228) |
| 7 | 362.16 | Station equipment - gridsmart |  | (55) | 100\% |  | (55) |
| 8 | 363 | Storage Battery Equipment |  | 0 | 100\% |  | 0 |
| 9 | 364 | Poles Towers and Fixtures |  | (6) | 100\% |  | (6) |
| 10 | 365 | Overhead conductors |  | (394) | 100\% |  | (394) |
| 11 | 366 | Line Transformers |  | (4) | 100\% |  | (4) |
| 12 | 367 | Underground conduit |  | (0) | 100\% |  | (0) |
| 13 | 368 | Line Transformers |  | (39) | 100\% |  | (39) |
| 14 | 369 | Services |  | (20) | 100\% |  | (20) |
| 15 | 370 | Meters |  | $(4,260)$ | 100\% |  | $(4,260)$ |
| 16 | 370.16 | AMI Meters |  | $(20,819)$ | 100\% |  | $(20,819)$ |
| 17 | 370.2 | AMI Meters |  | 0 | 100\% |  | 0 |
| 18 | 371 | Installations on Customers' Premises |  | 0 | 100\% |  | 0 |
| 19 | 372 | Leased Property on Customer's Premises |  | 0 | 100\% |  | 0 |
| 20 | 373 | Street lighting |  | (0) | 100\% |  | (0) |
| 21 | 389 | Land and Land Rights |  | 0 | 100\% |  | 0 |
| 22 | 390 | Structures and Improvements |  | (127) | 100\% |  | (127) |
| 23 | 391 | Office furniture |  | (8) | 100\% |  | (8) |
| 24 | 392 | Transportation Equipment |  | 0 | 100\% |  | 0 |
| 25 | 393 | Stores Equipment |  | 0 | 100\% |  | 0 |
| 26 | 394 | Tools, Shop and Garage Equipment |  | (15) | 100\% |  | (15) |
| 27 | 395 | Laboratory Equipment |  | 0 | 100\% |  | 0 |
| 28 | 396 | Power Operated Equipment |  | 0 | 100\% |  | 0 |
| 29 | 397 | Communication equipment |  | (171) | 100\% |  | (171) |
| 30 | 397.16 | Communication equipment |  | (47) | 100\% |  | (47) |
| 31 | 398 | Miscellaneous Equipment |  | (119) | 100\% |  | (119) |
| 32 | 399 | Other Tangible Property |  | 0 | 100\% |  | 0 |
| 33 | 399.1 | Asset Retirement Costs for General Plant |  | 0 | 100\% |  | 0 |
| 34 |  | Total | \$ | $(27,470.07)$ |  | \$ | $(27,470.07)$ |

[a] Allocation is ALLDIST

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Depreciation Accrual Rates and
Jurisdictional Reserve Balances by Accounts
As of December 31, 2019
Distribution Plant
Work Paper Reference No (s):
Schedule B-2.1_D, Schedule B-3 Merge, WP B-3.2a Merge

| $\begin{array}{\|l} \hline \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | ACCOUNTTITLE | ADJUSTED JURSDICTION |  |  | CURRENT ACCRUAL RATE* | CALCULATED depreciation EXPENSE |  | \% NET SALVAGE* | AVERAGE SERVICE LIFE* | CURVE <br> FORM* | PROPOSED ACCRUAL RATE* | CALCULATED DEPRECIATION EXPENSE |  | \% NET SALVAGE* | AVERAGE SERVICE LIFE* | CURVE <br> FORM* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | PLANT VESTMENT | RESERVE BALANCE |  |  |  |  |  |  |  |  |  |  |  |  |
| (A) | (B) | (C) |  | (D) | (E) | (F) |  | ) $\mathbf{( F )}$ | (H) | (1) | (J) | (K) |  | )(K) | (M) | (N) | (0) |
| 1 | 360 | Land and Land Rights | \$ | 69,301 | \$ 0 | 0.00\% | \$ | 0 | (a) | (a) | (a) | 0.00\% | \$ | 0 | (a) | (a) | (a) |
| 2 | 361 | Structures and Improvements |  | 43,942 | 10,809 | 1.77\% |  | 778 | -15\% | 65 | R3.0 | 1.74\% |  | 766 | -22\% | 70 | R2.0 |
| 3 | 362 | Station Equipment |  | 860,759 | 214,863 | 2.47\% |  | 21,261 | -11\% | 45 | R1.0 | 2.05\% |  | 17,685 | -13\% | 55 | L0.0 |
| 4 | 363 | Storage Battery Equipment |  | 5,117 | 3,897 | 6.67\% |  | 341 | 0\% | 15 | SQ | 6.67\% |  | 341 | 0\% | 15 | SQ |
| 5 | 364 | Poles, Towers and Fixtures |  | 795,217 | 424,211 | 5.19\% |  | 41,272 | -87\% | 36 | R0.5 | 4.92\% |  | 39,133 | -87\% | 38 | R0.5 |
| 6 | 365 | Overhead Conductors and Devices |  | 880,210 | 201,165 | 3.63\% |  | 31,952 | -16\% | 32 | L0.0 | 3.69\% |  | 32,458 | -18\% | 32 | L0.0 |
| 7 | 366 | Underground Conduit |  | 333,826 | 59,997 | 1.56\% |  | 5,208 | 0\% | 64 | R2.5 | 1.67\% |  | 5,564 | 0\% | 60 | R3.0 |
| 8 | 367 | Underground Conductors and Devices |  | 732,263 | 252,425 | 2.60\% |  | 19,039 | -12\% | 43 | R2.0 | 2.26\% |  | 16,549 | -13\% | 50 | R1.5 |
| 9 | 368 | Line Transformers |  | 847,801 | 264,864 | 3.80\% |  | 32,216 | -14\% | 30 | L0.0 | 3.63\% |  | 30,733 | -16\% | 32 | L0.0 |
| 10 | 369 | Services |  | 344,858 | 150,656 | 3.27\% |  | 11,277 | -34\% | 41 | R0. 5 | 3.12\% |  | 10,747 | -34\% | 43 | R0.5 |
| 11 | 370 | Meters |  | 87,521 | $(28,690)$ | 4.07\% |  | 3,562 | -10\% | 27 | S1.0 | 9.82\% |  | 8,593 | -8\% | 11 | L1.5 |
| 12 | 370.16 | AMI Meters |  | 8,650 | 6,580 | 7.33\% |  | 634 | -10\% | 15 | SQ | 7.20\% |  | 623 | -8\% | 15 | S0.5 |
| 13 | 371 | Installations on Customers' Premises |  | 59,230 | 45,946 | 9.14\% |  | 5,414 | -28\% | 14 | L0.0 | 8.53\% |  | 5,054 | -28\% | 15 | L0.0 |
| 14 | 372 | Leased Property on Customer's Premises |  | 103 | 77 | 2.50\% |  | 3 | 0\% | 40 | R0.5 | 2.27\% |  | 2 | 0\% | 44 | R0.5 |
| 15 | 373 | Street Light and Signal Systems |  | 41,152 | 22,750 | 6.20\% |  | 2,551 | -24\% | 20 | L0.0 | 5.64\% |  | 2,319 | -24\% | 22 | L0.0 |
| 16 |  | Total Distribution Plant | \$ | 5,109,951 | \$ 1,629,551 |  | \$ | 175,507 |  |  |  |  | \$ | 170,567 |  |  |  |

Notes:
(a) Account 360 Land and Land Rights are not depreciable in Ohio.
(K) $(100 \%$-NS\%)/ASL

Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | ACCOUNTTITLE | ADJUSTED JURSDICTION |  |  |  | CURRENT ACCRUAL RATE* | CALCULATED DEPRECIATION EXPENSE |  | \% NET SALVAGE* | AVERAGE SERVICE LIFE* | CURVE <br> FORM ${ }^{*}$ | PROPOSED ACCRUAL RATE* | CALCULATED DEPRECIATION EXPENSE |  | \% NET SALVAGE* | AVERAGE SERVICE LIFE* | CURVE FORM* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | LANT STMENT |  | RESERVE BALANCE |  |  |  |  |  |  |  |  |  |  |  |  |
| (A) | (B) | (C) |  | (D) |  | (E) | (F) |  | (F) | (H) | (I) | (J) | (K) |  | (K) | (M) | (N) | (0) |
| 1 | 389 | Land and Land Rights | \$ | 13,140 | \$ | 0 | 0.00\% | \$ | 0 | (a) | (a) | (a) | 0.00\% | \$ | 0 | (a) | (a) | (a) |
| 2 | 390 | Structures and Improvements |  | 250,940 |  | 53,436 | 2.17\% |  | 5,445 | -2\% | 47 | L0.0 | 2.10\% |  | 5,270 | -5\% | 50 | S0.0 |
| 3 | 391 | Office Furniture and Equipment |  | 13,335 |  | 4,547 | 3.33\% |  | 444 | 0\% | 30 | SQ | 3.33\% |  | 445 | 0\% | 30 | SQ |
| 4 | 392 | Transportation Equipment |  | 13 |  | 78 | 2.00\% |  | , | 0\% | 50 | SQ | 2.00\% |  | 0 | 0\% | 50 | SQ |
| 5 | 393 | Stores Equipment |  | 950 |  | 304 | 2.94\% |  | 28 | 0\% | 34 | SQ | 2.94\% |  | 28 | 0\% | 34 | SQ |
| 6 | 394 | Tools, Shop and Garage Equipment |  | 29,543 |  | 14,190 | 3.53\% |  | 1,043 | -6\% | 30 | SQ | 3.53\% |  | 1,044 | -6\% | 30 | SQ |
| 7 | 395 | Laboratory Equipment |  | 109 |  | 260 | 3.57\% |  |  | 0\% | 28 | SQ | 3.57\% |  |  | 0\% | 28 | SQ |
| 8 | 396 | Power Operated Equipment |  | 5 |  | 4 | 3.85\% |  | 0 | 0\% | 26 | SQ | 3.85\% |  | 0 | 0\% | 26 | SQ |
| 9 | 397 | Communication Equipment |  | 113,907 |  | 23,919 | 2.86\% |  | 3,258 | 0\% | 35 | SQ | 3.00\% |  | 3,417 | -5\% | 35 | SQ |
| 10 | 397.16 | AMI Communication Equipment |  | 2,235 |  | 1,757 | 6.67\% |  | 149 | 0\% | 15 | SQ | 7.00\% |  | 156 | -5\% | 15 | SQ |
| 11 | 398 | Miscellaneous Equipment |  | 1,555 |  | 1,195 | 4.00\% |  | 62 | 0\% | 25 | SQ | 4.00\% |  | 62 | 0\% | 25 | SQ |
| 12 | 399 | Other Tangible Property |  | 0 |  | 0 | 0.00\% |  | 0 | N/A | N/A | N/A | 0.00\% |  | 0 | N/A | N/A | N/A |
| 13 | 399.1 | Asset Retirement Costs for General Plant |  | 773 |  | 317 | 0.00\% |  | 0 | (b) | (b) | (b) | 0.00\% |  | 0 | (b) | (b) | (b) |
| 14 |  | Total General Plant | \$ | 426,505 | \$ | 100,006 |  | \$ | 10,434 |  |  |  |  | \$ | 10,426 |  |  |  |

Notes:
(a) Account 389 Land and Land Rights are not depreciable in Ohio
(b) There was no balance or rate approved for this account in the Company's last rate case. Asset

Retirement Obligations (ARO) in this account represent asbestos at general building locations. The ARO are depreciated over the life of the related asset per FERC Order No. 631 and the rate shown above represents an average rate for the obligations.

Columns ( F ), and ( H ) through ( J ) shall represent depreciation values as prescribed by this commission for booking purposes. If such values have not been prescribed by this commission the utility shall so indicate on schedule by footnote.

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Depreciation Accrual Rates and

## Jurisdictional Reserve Balances by Accounts

As of December 31, 2019
Intangible Plant
Work Paper Reference No(s):
Schedule B-2.1_I, Schedule B-3_I

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | ACCOUNT TITLE | ADJUSTED JURSDICTION |  |  |  | CURRENT ACCRUAL RATE* | CALCULATED DEPRECIATION EXPENSE |  | \% NET SALVAGE* | AVERAGE SERVICE LIFE* | CURVE FORM* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | PLANT NVESTMENT |  | RESERVE <br> BALANCE |  |  |  |  |  |  |
| (A) | (B) | (C) |  | (D) |  | (E) | (F) |  | (G) $=(\mathrm{D}) \mathbf{x}(\mathrm{F})$ | (H) | (I) | (J) |
| 1 | 301 | Organization | \$ | 3 | \$ | 0 | 0.00\% |  | \$ | (a) | (a) | (a) |
| 2 | 302 | Franchises and Consents |  | 641 |  | 641 | 0.00\% |  | 0 | (b) | (b) | (b) |
| 3 | 303 | Miscellaneous Intangible Plant |  | 155,312 |  | 72,567 | 15.23\% |  | 23,654 | (c) | (c) | (c) |
| 4 |  | Total Intangible Plant | \$ | 155,957 |  | 73,209 |  |  | \$ 23,654 |  |  |  |

Notes:
(a) This account is not currently being amortized and the Company is not requesting that it be amortized in this rate proceeding
(b) This account is fully amortized and the Company is not requesting any further amortization in
(c) Most of the balance in account 303 is represented by capital software that is being amortized over an estimated 5 year life at $20 \%$. Since some of the capital software will soon be fully depreciated, the rate provided above is an average rate calculated using an average asset balance from January 2019 and December 2019 and amortization expense for the twelve months ended December 2019. The capital software amortization rate has not been prescribed by this

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Construction Work in Progress

As of December 31, 2019

## \$000

Work Paper Reference No(s)

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { PROJECT } \\ & \text { NO } \end{aligned}$ | DESCRIPTION OF PROJECT | ACCUMULATED COSTS |  |  | $\begin{gathered} \text { ALLOCATION } \\ \% \end{gathered}$ | TOTAL JURSIDICTIONAL COST AT DATE CERTAIN | ESTIMATED PHYSICAL PERCENT COMPLETION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | CONSTRUCTION | AFDC | TOTAL |  |  |  |
|  |  |  | DOLLARS | CAPITALZIED | COST |  |  |  |
| (A) | (B) | (C) | (D) | (E) | (F)=(D)+(E) | (G) | (H) | (I) |

The Company has not included any Construction Work in Progress in this Rate Case

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Construction Work in Progress - Percent Complete (Time)
As of December 31, 2019
Work Paper Reference No(s):
Schedule B-4.1
Page 1 of 1

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | PROJECT NO | DATE CONSTRUCTION WORK BEGAN | ESTIMATED PROJECT COMPLETION DATE | ELAPSED DAYS: BEGINNING TO DATE CERTAIN | $\begin{gathered} \hline \text { ELAPSED DAYS: } \\ \text { BEGINNING TO } \\ \text { ESTIMATED } \\ \text { COMPLETION } \\ \hline \end{gathered}$ | DATE CERTAIN <br> \% COMPLETION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) | (F) | (G)=(E)/ |

The Company has not included any Construction Work in Progress in this Rate Case

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Construction Work in Progress - Percent Complete (Dollars)
As of December 31, 2019
Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { PROJECT } \\ & \text { NO } \end{aligned}$ | MOST RECENT BUDGET ESTIMATE |  |  |  | PROJECT EXPENDITURESAS OF DATE CERTAIN |  | DATE CERTAIN <br> \% COMPLETION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CONSTRUCTION DOLLARS | AFUDC | TOTAL | $\begin{aligned} & \hline \text { CONSTRUCTION } \\ & \text { DOLLARS } \\ & \text { TRENDED } \end{aligned}$ | CONSTRUCTION DOLLARS | CONSTRUCTION DOLLARS TRENDED | CONSTRUCTION DOLLARS | CONSTRUCTION DOLLARS TRENDED |
| (A) | (B) | (C) | (D) | (E) $=(\mathrm{C})+$ (D) | (F) | (G) | (H) | (I)=(G)/(C) | (J) $=(\mathrm{H}) /(\mathrm{F})$ |

The Company has not included any Construction Work in Progress in this Rate Case

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Allowance for Working Capital

As of Thirteen Months Ending December 31, 2020
Work Paper Reference No(s):
Schedule B-5
Page 1 of 1

| LINE <br> NO | WORKING CAPITAL COMPONENT | DESCRIPTION OF <br> METHODOLOGY USED TO <br> DETERMINE JURISDICTIONAL <br> REQUIREMENT | WORKING <br> PAPER <br> REFERENCE <br> NO | (B) | (C) <br> TOTAL <br> COMPANY |
| :---: | :--- | :--- | :--- | :--- | :--- | | (D) |
| :---: |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Other Rate Base Items Summary <br> As of December 31, 2019 <br> <br> (\$000) 

 <br> <br> (\$000)}

Work Paper Reference No(s): Schedule B-6
WP B-6a thru d, WP B-6e

| $\begin{array}{\|c} \hline \text { LINE } \\ \text { NO } \end{array}$ | $\begin{gathered} \text { ACCOUNT } \\ \text { NO } \end{gathered}$ | DESCRIPTION | TOTAL COMPANY |  |  | $\begin{gathered} \text { ALLOCATION } \\ \% \end{gathered}$ | ALLOCATED TOTAL |  | ADJUSTMENTS |  | ADJUSTEDJURSIDICTION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  | (D) |  | (E) |  | (F) |  | (G) |  | (H) |
| 1 |  | Contributions in Aid of Construction (Note 1) | \$ | 0 |  | 0.00\% | \$ | 0 | \$ | 0 | \$ | 0 |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  | OTHER RATE BASE ITEMS |  |  |  |  |  |  |  |  |  |  |
| 4 | 235 | Customers' Deposits |  | $(55,112)$ |  | 100.00\% [a] |  | $(55,112)$ |  | 0 |  | $(55,112)$ |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 252 | Customers' Advances for Construction |  | 0 |  | 0.00\% [a] |  | 0 |  | 0 |  | 0 |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 255 | Investment Tax Credits: (Note 2) |  |  |  |  |  |  |  |  |  |  |
| 9 |  | Pre-1971 3\% Credit |  |  |  |  |  |  |  |  |  |  |
| 10 |  | 1971 4\% Credit |  |  |  |  |  |  |  |  |  |  |
| 11 |  | 1975 6\% Add'l Credit |  |  |  |  |  |  |  |  |  |  |
| 12 |  | 1981 10\% Credit on Recovery Property |  | (1) |  |  |  |  |  |  |  |  |
| 13 |  | ITC Tax Benefits Sold |  |  |  |  |  |  |  |  |  |  |
| 14 |  | Other (Specify and list separately) |  |  |  |  |  |  |  |  |  |  |
| 15 |  | TOTAL Investment Tax Credits |  | (1) |  | 104.18\% [a] |  | (1) |  | 0 |  | (1) |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  | Deferred Income Taxes: |  |  |  |  |  |  |  |  |  |  |
| 18 | 190 | Debits |  | 87,048 | 3 | 81.63\% [a] |  | 71,055 |  | 0 |  | 71,055 |
| 19 | 281 | Accel Amort Prop |  | 0 |  | 0.00\% [a] |  | 0 |  |  |  | 0 |
| 20 | 282 | Utility Prop |  | $(1,323,620)$ | 3 | 68.59\% [a] |  | $(907,826)$ |  |  |  | $(907,826)$ |
| 21 | 283 | Credits |  | $(138,512)$ |  | 83.21\% [a] |  | $(115,262)$ |  |  |  | $(115,262)$ |
| 22 |  | TOTAL Deferred Income Taxes |  | $(1,375,084)$ |  |  |  | $(952,033)$ |  | 0 |  | $(952,033)$ |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  | Other (Specify and list separately) |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | 1650010 | Prepaid Pension |  | 190,089 |  | 86.89\% [a] |  | 165,161 |  | $(165,161)$ |  | 0 |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  | TOTAL Other Rate Base Items | \$ | $\underline{(1,240,108)}$ |  |  | \$ | $\underline{(841,986)}$ | \$ | $\underline{(165,161)}$ | \$ | $\underline{(1,007,147)}$ |

## Notes:

1 Contributions in Aid of construction are credited to Construction Work In Progress \& Electric Plant In Service per FERC Order 490
2 Steam Utilities shall list separately and show 7\% credit, and 10\% credit.
3 Presentation difference between balance sheet and tax system
[a] Allocation is DIRECT

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Adjustments to Other Rate Base Items
As of December 31, 2019

## Work Paper Reference No(s):

| LINE | ACCOUNT | ACCOUNT | TOTAL | ALLOCATION | JURSIDICTIONAL |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NO | NO | TITLE | COMPANY | ADJUSTMENT | ADJUSTMENT |
| (A) | (B) | (C) | (D) | (E) | (F) |

Adjustment Title

Total Adjustment
NONE

Description and Purpose of Adjustment

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Contributions in Aid of Construction by Accounts and Subaccounts <br> As of December 31, 2019 <br> (\$000) 

Work Paper Reference No(s): Schedule B-6.2
Page 1 of 1

| LINE | ACCOUNT | ACCOUNT | TOTAL | ALLOCATION | ALLOCATED | ADJUSTMENTS |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NO | NO | TITLE | COMPANY | $\%$ | ADJUSTED |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) | JURSIDICTION |

[^18]OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Jurisdictional Allocation Factors
Rate Base and Operating Incom
As of December 31, 2019

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | ACCOUNT NO | ACCOUNT TITLE | ALLOCATION <br> CODE/ <br> DESCRIPTION | JURSIDICTIONAL ALLOCATION FACTOR | DESCRIPTION OF FACTORS AND / OR METHOD OF ALLOCATION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) | (F) |
| Rate Base |  |  |  |  |  |
| 1 | Various | 100\% Jurisdictional ltems | ALLDIST | 100.0000\% |  |
| 2 | Various | Non-Jurisdictional Items | NONDIST | 0.0000\% |  |
| 3 | Various | Based upon the relationship reflected in the Functional books and records | DIRECT |  |  |
| Operating Income |  |  |  |  |  |
| 1 | Various | 100\% Jurisdictional Items | ALLDIST | 100.0000\% |  |
| 2 | Various | Non-Jurisdictional Items | NONDIST | 0.0000\% |  |
| 3 | 403 | Depreciation - Distribution Plant | DEPR1 | 100.0000\% | [A] |
| 4 | 403 | Depreciation-General Plant | DEPR2 | 74.5330\% | [A] |
| 5 | 404 | Amortization-General Plant | AMORT1 | 100.0000\% | [A] |
| 6 | 404 | Amortization - Intangible Plant | AMORT2 | 88.8095\% | [A] |
| 7 | 408.1 | Franchise Tax | OTHTAX1 | 100.0000\% | [A] |
| 8 | 408.1 | Commercial Activity Taxes | OTHTAX2 | 99.9103\% | [A] |
| 9 | 408.1 | Payroll Taxes | Othtax 3 | 99.9822\% | [A] |
| 10 | 408.1 | Property Taxes | OTHTAX4 | 70.0425\% | [A] |
| 11 | 408.1 | Regulatory Fees | OTHTAX5 | 100.0000\% | [A] |
| 12 | 408.1 | Miscellaneous Taxes | OtHTAX6 | 100.0000\% | [A] |
| 13 | 408.1 | Revenue-kwhr Taxes | OTHTAX7 | 100.0000\% | [A] |
| 14 | 451 | Misc. Service Revenues | OTHREV1 | 98.8092\% | [A] |
| 15 | 454.1 | Rent from Electric Property - Assoc. | OTHREV2 | 64.8278\% | [A] |
| 16 | 454.2 | Rent from Electric Property - Non Assoc. | OTHREV3 | 3.6665\% | [A] |
| 17 | 454.4 | Rent from Electric Property - ABD | OTHREV4 | 25.5366\% | [A] |
| 18 | 454.5 | Rent from Electric Property - Pole Attach. | OTHREV5 | 98.8029\% | [A] |
| 19 | 456.0001, 456.0012 | 4560001+4560012 Other Electric Rev - Distribution | OTHREV6 | 100.0000\% | [A] |
| 20 | 4560007 | 4560007 Other Electric Rev - DSM Program | OTHREV7 | 100.0000\% | [A] |
| 21 | 4560015 | 4560015 Other Electric Rev - ABD | OTHREV8 | 83.4832\% | [A] |
| 22 | 4560041 | 4560041 Misc Rev - NonAffiliated | OTHREV9 | 0.8333\% | [A] |
| 23 | 4561027 | 4561027 PJM Tranms Dist/Meter - NonAff | OTHREV10 | 100.0000\% | [A] |
| 24 | 580 | Operation Supervision and Engineering | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 25 | 581 | Load Dispatching | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 26 | 582 | Station Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 27 | 583 | Overhead Line Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 28 | 584 | Underground Line Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 29 | 585 | Street Lighting and Signal System Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 30 | 586 | Meter Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 31 | 587 | Customer Installations Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 32 | 588 | Miscellaneous Distribution Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 33 | 589 | Rents | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 34 | 590 | Maintenance Supervision and Engineering | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 35 | 591 | Maintenance of Structures | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 36 | 592 | Maintenance of Station Equipment | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 37 | 593 | Maintenance of Overhead Lines (excl. 593.0009) | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 38 | 594 | Maintenance of Underground Lines | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 39 | 595 | Maintenance of Line Transformers | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 40 | 596 | Maintenance of Street Lighting and Signal Systems | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 41 | 597 | Maintenance of Meters | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 42 | 598 | Maintenance of Miscellaneous Distribution Plant | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |

[A] Based upon the relationship reflected in the Functional books and records for the twelve months ended December 31, 2019.

| $\begin{gathered} \text { LINE } \\ \text { NO } \end{gathered}$ | $\begin{aligned} & \text { ACCOUNT } \\ & \text { NO } \end{aligned}$ | ACCOUNT TITLE | $\begin{aligned} & \text { ALLOCATION } \\ & \text { CODE/ } \\ & \text { DESCRIPTION } \end{aligned}$ | JURSIDICTIONAL ALLOCATION FACTOR | DESCRIPTION OF FACTORS AND / OR METHOD OF ALLOCATION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) | (F) |
| 43 | 901 | Supervision | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 44 | 902 | Meter Reading Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 45 | 903 | Customer Records and Collection Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 46 | 904 | Uncollectible Accounts | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 47 | 905 | Miscellaneous Customer Accounts Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 48 | 907 | Customer Assistance Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 49 | 909 | Informational and Instructional Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 50 | 910 | Misc. Customer Service and Informational Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 51 | 911 | Supervision | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 52 | 912 | Demonstrating and Selling Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 53 | 913 | Advertising Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 54 | 916 | Miscellaneous Sales Expenses | ALLDIST | 100.0000\% | 100\% Jurisdictional Items |
| 55 | 920 | 920 Administrative and General Salaries | A\&G1 | 83.2526\% | [A] |
| 56 | 921 | 921 Office Supplies and Expenses | A\&G2 | 93.2887\% | [A] |
| 57 | 922 | 922 Administrative Expenses Transferred-Cr. | A\&G3 | 99.4242\% | [A] |
| 58 | 923.00xx | 923.00xx Outside Svcs | A\&G4 | 98.6059\% | [A] |
| 59 | 923.0001 | 9230001 Outside Svcs Empl - Nonassoc | A\&G5 | 81.9317\% | [A] |
| 60 | 923.0003 | 9230003 AEPSC Billed to Client Co | A\&G6 | 69.1931\% | [A] |
| 61 | 924 | 924 Property Insurance | A\&G7 | 74.3995\% | [A] |
| 62 | 925 | 925 Injuries and Damages | A\&G8 | 96.1338\% | [A] |
| 63 | 926 all other | 92600xx Other Employee Benefits excluding Pension \& OPEB | A\&G9 | 99.5244\% | [A] |
| 64 | 926.0036,43,51,52,55,58,62 | 9260036,43,51,52,55,58,62 Employee Benefits | A\&G10 | 94.3823\% | [A] |
| 65 | 926.0003, 37 | 9260003 \& 9260037 Pension Plan | A\&G11 | 99.8699\% | [A] |
| 66 | 926.0050 | 9260050 Pension Plan Fringe Loading Offset | A\&G12 | 99.7648\% | [A] |
| 67 | 926.0021, 57 | 9260021 \& 9260057 OPEB | A\&G13 | 99.8732\% | [A] |
| 68 | 926.0053 | 9260053 OPEB Fringe Loading Offset | A\&G14 | 99.7906\% | [A] |
| 69 | 926.0060 | 9260060 Amort-Post Retirement Benefit | A\&G15 | 86.8305\% | [A] |
| 70 | 928 | 928 Regulatory Commission Expenses | A\&G16 | 95.5656\% | [A] |
| 71 | 930.1000 | 9301000 General Advertising Expenses | A\&G17 | 99.9565\% | [A] |
| 72 | 930.2 all other | 9302000 Miscellaneous General Expenses | A\&G18 | 85.2696\% | [A] |
| 73 | 930.2007 | 9302007 Associated Business Development Expenses | A\&G19 | 76.0345\% | [A] |
| 74 | 931 | 931 Rents | A\&G20 | 91.7574\% | [A] |
| 75 | 935 | 935 Maintenance of General Plant | A\&G21 | 91.6423\% | [A] |

[A] Based upon the relationship reflected in the Functional books and records for the twelve months ended December 31, 2019.

OHIO POWER COMPANY
Case No. 20-585-EL-AIR Jurisdictional Allocation Statistics

As of December 31, 2019

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ |  | ALLOCATION FACTOR \& DESCRIPTION | STATISTIC TOTAL COMPANY | ADJUSTMENT TO TOTAL COMPANY STATISTIC | ADJUSTED STATISTIC FOR TOTAL COMPANY | STATISTIC FOR RATE AREA | ALLOCATION FACTOR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) |  | (B) | (C) | (D) | (E)=(C)+(D) | (F) | (G)=(F)/(E) |
| 1 | ALLDIST |  | 100\% Jurisdictional |  |  |  | 100.0000\% |
| 2 | NONDIST |  | Non-Jurisdictional It |  |  |  | 0.0000\% |
| 3 | DIRECT |  | Based upon the relaid | nship reflected in | unctional books and record |  |  |
| 4 | DEPR1 | Depreciation - Distribution Plant | \$ 162,144,990 | \$ 0 | \$ 162,144,990 | \$ 162,144,990 | 100.0000\% |
| 5 | DEPR2 | Depreciation - General Plant | 6,731,145 | - | 6,731,145 | 5,016,921 | 74.5330\% |
| 6 | DEPRDIR | Depreciation - gridSMART Over/Under | $(5,615,504)$ | - | $(5,615,504)$ | $(5,615,504)$ | 100.0000\% |
| 7 | DEPRGSMT | Depreciation - DIR | $(18,669,867)$ | - | $(18,669,867)$ | $(18,669,867)$ | 100.0000\% |
| 8 | AMORT1 | Amortization - General Plant | 667,710 | - | 667,710 | 667,710 | 100.0000\% |
| 9 | AMORT2 | Amortization - Intangible Plant | 25,413,520 | - | 25,413,520 | 22,569,610 | 88.8095\% |
| 10 | OTHTAX1 | Franchise Tax | 3,030 | - | 3,030 | 3,030 | 100.0000\% |
| 11 | OTHTAX2 | Commercial Activity Taxes | 6,965,721 | - | 6,965,721 | 6,959,475 | 99.9103\% |
| 12 | OTHTAX3 | Payroll Taxes | 6,873,858 | - | 6,873,858 | 6,872,637 | 99.9822\% |
| 13 | OTHTAX4 | Property Taxes | 269,485,031 | - | 269,485,031 | 188,754,122 | 70.0425\% |
| 14 | OTHTAX5 | Regulatory Fees | 4,720,980 | - | 4,720,980 | 4,720,980 | 100.0000\% |
| 15 | OTHTAX6 | Miscellaneous Taxes | 52 | - | 52 | 52 | 100.0000\% |
| 16 | OTHTAX7 | Revenue-kwhr Taxes | 146,777,477 |  | 146,777,477 | 146,777,477 | 100.0000\% |
| 17 | OTHREV1 | Misc. Service Revenues | 10,115,749 | - | 10,115,749 | 9,995,291 | 98.8092\% |
| 18 | OTHREV2 | Rent from Electric Property - Assoc. | 18,729,725 | - | 18,729,725 | 12,142,059 | 64.8278\% |
| 19 | OTHREV3 | Rent from Electric Property - Non Assoc. | 1,212,642 | - | 1,212,642 | 44,461 | 3.6665\% |
| 20 | OTHREV4 | Rent from Electric Property - ABD | 1,075,212 | - | 1,075,212 | 274,573 | 25.5366\% |
| 21 | OTHREV5 | Rent from Electric Property - Pole Attach. | 19,938,616 |  | 19,938,616 | 19,699,939 | 98.8029\% |
| 22 | OTHREV6 | 4560001+4560012 Other Electric Rev - Distribution | 958,707 | - | 958,707 | 958,707 | 100.0000\% |
| 23 | OTHREV7 | 4560007 Other Electric Rev - DSM Program | 104,213 | - | 104,213 | 104,213 | 100.0000\% |
| 24 | OTHREV8 | 4560015 Other Electric Rev - ABD | 3,964,185 | - | 3,964,185 | 3,309,429 | 83.4832\% |
| 25 | OTHREV9 | 4560041 Misc Rev - NonAffiliated | 102,011 |  | 102,011 | 850 | 0.8333\% |
| 26 | OTHREV10 | 4561027 PJM Tranms Dist/Meter - NonAff | 1,373,619 |  | 1,373,619 | 1,373,619 | 100.0000\% |
| 27 | A\&G1 | 920 Administrative and General Salaries | 35,728,385 | - | 35,728,385 | 29,744,812 | 83.2526\% |
| 28 | A\&G2 | 921 Office Supplies and Expenses | 4,648,874 |  | 4,648,874 | 4,336,873 | 93.2887\% |
| 29 | A\&G3 | 922 Administrative Expenses Transferred-Cr. | $(9,280,100)$ | - | $(9,280,100)$ | $(9,226,661)$ | 99.4242\% |
| 30 | A\&G4 | 923.00xx Outside Svcs | 17,682 |  | 17,682 | 17,435 | 98.6059\% |
| 31 | A\&G5 | 9230001 Outside Svcs Empl - Nonassoc | 7,989,192 | - | 7,989,192 | 6,545,683 | 81.9317\% |
| 32 | A\&G6 | 9230003 AEPSC Billed to Client Co | $(3,455,634)$ | - | $(3,455,634)$ | $(2,391,061)$ | 69.1931\% |
| 33 | A\&G7 | 924 Property Insurance | 2,201,442 | - | 2,201,442 | 1,637,863 | 74.3995\% |
| 34 | A\&G8 | 925 Injuries and Damages | 5,942,545 | - | 5,942,545 | 5,712,796 | 96.1338\% |
| 35 | A\&G9 | 92600xx Other Employee Benefits excluding Pension \& | 27,353,957 | - | 27,353,957 | 27,223,859 | 99.5244\% |
| 36 | A\&G10 | 9260036,43,51,52,55,58,62 Employee Benefits | $(28,075,949)$ |  | $(28,075,949)$ | $(26,498,725)$ | 94.3823\% |
| 37 | A\&G11 | 9260003 \& 9260037 Pension Plan | 7,915,803 | - | 7,915,803 | 7,905,503 | 99.8699\% |
| 38 | A\&G12 | 9260050 Pension Plan Fringe Loading Offset | $(3,859,207)$ | - | $(3,859,207)$ | $(3,850,130)$ | 99.7648\% |
| 39 | A\&G13 | 9260021 \& 9260057 OPEB | 788,641 | - | 788,641 | 787,641 | 99.8732\% |
| 40 | A\&G14 | 9260053 OPEB Fringe Loading Offset | $(827,103)$ | - | $(827,103)$ | $(825,372)$ | 99.7906\% |
| 41 | A\&G15 | 9260060 Amort-Post Retirement Benefit | 1,032,204 |  | 1,032,204 | 896,267 | 86.8305\% |
| 42 | A\&G16 | 928 Regulatory Commission Expenses | 1,992,399 | - | 1,992,399 | 1,904,048 | 95.5656\% |
| 43 | A\&G17 | 9301000 General Advertising Expenses | 4,631,687 | - | 4,631,687 | 4,629,672 | 99.9565\% |
| 44 | A\&G18 | 9302000 Miscellaneous General Expenses | 2,357,579 | - | 2,357,579 | 2,010,297 | 85.2696\% |
| 45 | A\&G19 | 9302007 Associated Business Development Expenses | 1,938,344 | - | 1,938,344 | 1,473,810 | 76.0345\% |
| 46 | A\&G20 | 931 Rents | 1,102,097 | - | 1,102,097 | 1,011,255 | 91.7574\% |
| 47 | A\&G21 | 935 Maintenance of General Plant | 15,236,818 | - | 15,236,818 | 13,963,377 | 91.6423\% |

# OHIO POWER COMPANY 

Case No. 20-585-EL-AIR

## Explanation of Changes in Allocation Procedures

As of December 31, 2019

## Work Paper Reference No(s):

Schedule B-7.2 Page 1 of 1

| LINE <br> NO | ACCOUNT <br> NO | DESCRIPTION | PROCEDURES APPROVED IN PRIOR <br> CASE | RATIONALE FOR CHANGE |
| :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) |

Refer to the direct testimony of T. A. Caudill for discussion of jurisdictional allocation factors.

## OHIO POWER COMPANY

## Case No. 20-585-EL-AIR

Jurisdictional Proforma Income Statement
Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s): Schedule C-1
Schedule A-1, A-2, C-2, C-4
Page 1 of 1


## OHIO POWER COMPANY

## Case No. 20-585-EL-AIR

Jurisdictional Adjusted Test Year Net Electric Operating Income (NEOI) Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s): Schedule C-2
Schedule C-2.1, C-3, C-4

| $\begin{array}{\|l} \text { LINE } \\ \text { NO } \end{array}$ | DESCRIPTION | UNADJUSTED REVENUES \& EXPENSES | ADJUSTMENTS | ADJUSTED REVENUES \& EXPENSES |
| :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) |
| 1 | OPERATING REVENUES |  |  |  |
| 2 | Base Revenues | \$ 1,202,601 | \$ $(585,971)$ | \$ 616,630 |
| 3 | Fuel Revenues | 0 | 0 | 0 |
| 4 | Other Operating Revenues | 48,094 | (393) | 47,701 |
| 5 | Total Operating Revenues | 1,250,695 | $(586,364)$ | 664,331 |
| 6 |  |  |  |  |
| 7 | OPERATING EXPENSES |  |  |  |
| 8 | Operation and Maintenance Expenses |  |  |  |
| 9 | Production Expenses |  |  |  |
| 10 | Fuel and Purchased Power | 0 | 0 | 0 |
| 11 | Other | 0 |  | 0 |
| 12 | Total Production Expenses | 0 | 0 | 0 |
| 13 | Transmission Expense | 0 |  | 0 |
| 14 | Distribution Expense | 183,110 | $(51,611)$ | 131,499 |
| 15 | Customer Accounts Expenses | 178,753 | $(105,236)$ | 73,517 |
| 16 | Customer Service \& Information Expense | 105,086 | $(98,154)$ | 6,932 |
| 17 | Sales Expense | 684 | (180) | 505 |
| 18 | Administrative \& General Expense | 76,081 | $(3,415)$ | 72,666 |
| 19 | Total Operating and Maintenance Expense | 543,715 | $(258,595)$ | 285,120 |
| 20 | Depreciation and Amortization Expenses |  |  |  |
| 21 | Depreciation | 185,553 | $(30,942)$ | 154,611 |
| 22 | Amort. \& Depl. of Utility Plant | 28,213 | $(6,670)$ | 21,544 |
| 23 | Amort. of Utility Plant Acq. Adj. | 0 | 0 | 0 |
| 24 | Net Amortization of Regulatory Credits/Debits | (113) | 114 | 0 |
| 25 | Total Depreciation and Amtz. Expenses | 213,653 | $(37,498)$ | 176,155 |
| 26 | Taxes Other Than Income Taxes | 370,166 | $(169,196)$ | 200,970 |
| 27 |  |  |  |  |
| 28 | TOTAL OPERATING EXPENSE BEFORE INCOME TAXES | 1,127,534 | $(465,289)$ | 662,245 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Adjusted Test Year Net Electric Operating Income (NEOI)
Test Year: Twelve Months Ended November 30, 2020
(\$000)
Work Paper Reference No(s):
Schedule C-2

| $\begin{array}{\|l} \text { LINE } \\ \text { NO } \end{array}$ | DESCRIPTION | UNADJUSTED REVENUES \& EXPENSES | ADJUSTMENTS | ADJUSTED REVENUES \& EXPENSES |
| :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) |
| 29 | NEOI BEFORE INCOME TAXES | 123,161 | $(121,074)$ | 2,087 |
| 30 |  |  |  |  |
| 31 | Income Taxes-State and Local |  |  |  |
| 32 | Current | (71) | $(1,276)$ | $(1,347)$ |
| 33 | Provision for Deferred Income Taxes | 262 | 561 | 822 |
| 34 | Total State \& Local Income Taxes | 191 | (715) | (524) |
| 35 | Income Taxes-Federal |  |  |  |
| 36 | Current | $(2,293)$ | $(40,028)$ | $(42,321)$ |
| 37 | Provision for Deferred Income Taxes | 25,394 | $(3,558)$ | 21,835 |
| 38 | Deferred Investment Tax Credit | (3) | 0 | (3) |
| 39 | Total Federal Income Taxes | 23,098 | $(43,586)$ | $(20,489)$ |
| 40 |  |  |  |  |
| 41 | Total Operating Expenses | 1,150,822 | $(509,591)$ | 641,232 |
| 42 |  |  |  |  |
| 43 | Net Electric Operating Income | 99,873 | \$ (76,773) | 23,100 |

## OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR

Summary of Jurisdictional Adjustments to Operating Income
Test Year: Twelve Months Ended November 30, 2020

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | ELEMENT OF OPERATING INCOME | TOTAL SCHEDULE |  | UNIVERSAL SERVICE FUND |  | kWh TAX |  | ENERGY EFFICIENCY PEAK DEMAND |  | TITLE OF ADJUSTMENT |  |  |  | DECREASE ICP TO A TARGET LEVEL OF 1.0 |  | $\begin{gathered} \text { ANNUALIZE } \\ \text { LABOR/PAYROLL } \\ \text { EXPENSE } \end{gathered}$ |  | ADD ENERGY EFFIC. <br> \& PEAK DEMAND <br> REDUCTION LABOR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | ECONOMIC DEVELOPMENT COST RECOVERY | ENHANCED SERVICE RELIABILITY |  |  |  |  |  |  |  |  |
|  | Schedule Reference |  | C-3 |  |  |  | C-3.1 |  | C-3.2 |  | 3.3 |  |  |  |  |  |  |  |  |  |
| (A) | (B) |  | (C) |  | (D) |  |  |  | (E) |  | ) |  |  |  |  |  |  |  |  |  |
| 1 | OPERATING REVENUES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Base Revenues | \$ | $(585,971)$ | \$ | $(82,497)$ | \$ | $(144,527)$ | \$ | $(98,140)$ | \$ | 4,371 | \$ | $(21,779)$ | \$ | 0 | \$ | 0 | \$ |
| 3 | Fuel Revenues |  | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Other Operating Revenues |  | (393) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Total Operating Revenues |  | $(586,364)$ |  | $(82,497)$ |  | (144,527) |  | (98,140) |  | 4,371 |  | (21,779) |  | 0 |  | 0 |  |
| 6 | OPERATING EXPENSES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Operation and Maintenance Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Production Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Fuel and Purchased Power |  | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Other |  | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Total Production Expenses |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  |
| 12 | Transmission Expense |  | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Distribution Expense |  | $(51,611)$ |  |  |  |  |  |  |  |  |  | $(6,562)$ |  | 0 |  | $(17,516)$ |  |
| 14 | Customer Accounts Expenses |  | $(105,236)$ |  | $(106,025)$ |  |  |  | 0 |  |  |  |  |  | 0 |  |  |  |
| 15 | Customer Service \& Information Expense |  | $(98,154)$ |  |  |  |  |  | $(97,458)$ |  |  |  |  |  | 0 |  |  |  |
| 16 | Sales Expense |  | (180) |  |  |  |  |  | (180) |  |  |  |  |  | 0 |  |  |  |
| 17 | Administrative \& General Expense |  | $(3,415)$ |  |  |  |  |  | (286) |  |  |  |  |  | 0 |  |  |  |
| 18 | Total Operating and Maintenance Expense |  | $(258,595)$ |  | (106,025) |  | 0 |  | (97,924) |  | 0 |  | (6,562) |  | 0 |  | (17,516) |  |
| 19 | Depreciation and Amortization Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | Depreciation |  | $(30,942)$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | Amort. \& Depl. of Utility Plant |  | $(6,670)$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | Amort. of Utility Plant Acq. Adj. |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | Net Amortization of Regulatory Credits/Debits |  | 114 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | Total Depreciation and Amtz. Expenses |  | $(37,498)$ |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  |
| 25 | Taxes Other Than Income Taxes |  | $(169,196)$ |  |  |  | $(145,073)$ |  |  |  |  |  |  |  | 0 |  | $(1,428)$ |  |
| 26 | Income Taxes-State and Municipal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 | Current |  | $(1,276)$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 | Provision for Deferred Income Taxes |  | 561 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 | Provision for Deferred Income Taxes-Credit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 | Total State \& Local Income Taxes |  | (715) |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  |
| 31 | Income Taxes-Federal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 | Current |  | $(40,028)$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33 | Provision for Deferred Income Taxes |  | $(3,558)$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34 | Provision for Deferred Income Taxes-Credit |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35 | Total Federal Income Taxes |  | (43,586) |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  |
| 36 | Total Operating Expenses |  | $(509,591)$ |  | (106,025) |  | (145,073) |  | $(97,924)$ |  | 0 |  | $(6,562)$ |  | 0 |  | $(18,945)$ |  |
| 37 | Net Electric Operating Income | \$ | $\underline{(76,773)}$ | \$ | 23,528 | \$ | 546 | \$ | (216) | \$ | 4,371 | \$ | $(15,217)$ | \$ | 0 | \$ | 18,945 | \$ |

## OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR

Summary of Jurisdictional Adjustments to Operating Income
Test Year: Twelve Months Ended November 30, 2020

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | ELEMENT OF OPERATING INCOME | ANNUALIZE PENSION EXPENSE |  | ANNUALIZEOPEBEXPENSE |  | AMORTIZE RATE CASE EXPENSE |  | $\begin{aligned} & \text { ANNUALIZE } \\ & \text { DEPRECIATION } \\ & \text { EXPENSE } \end{aligned}$ |  | LE OFPRECIATIONRATE |  | INCOME |  | SMARTGRIDRIDER |  | DISTRIBUTION INVESTMENT RIDER |  | PTBAR RIDER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Schedule Reference |  | C-3.9 |  | C-3.10 |  | C-3.11 |  | C-3.12 |  | C-3.13 |  | C-3.14 |  | C-3.15 |  | -3.16 |  |  |
| (A) | (B) |  | (C) |  | (D) |  | (E) |  | (F) |  | (G) |  | (H) |  | (I) |  | (J) |  |  |
| 1 | OPERATING REVENUES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Base Revenues | \$ | 0 | \$ | 0 | \$ | 0 | \$ | \$ 0 | \$ | \$ 0 | \$ | 0 | \$ | $(35,239)$ | \$ | $(244,573)$ | \$ | $(13,664)$ |
| 3 | Fuel Revenues |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Other Operating Revenues |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Total Operating Revenues |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | $(35,239)$ |  | (244,573) |  | (13,664) |
| 6 | OPERATING EXPENSES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Operation and Maintenance Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Production Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Fuel and Purchased Power |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Other |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Total Production Expenses |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |
| 12 | Transmission Expense |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Distribution Expense |  |  |  |  |  |  |  |  |  |  |  |  |  | $(11,656)$ |  |  |  |  |
| 14 | Customer Accounts Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | Customer Service \& Information Expense |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Sales Expense |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | Administrative \& General Expense |  | (135) |  | $(2,927)$ |  | 65 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Total Operating and Maintenance Expense |  | (135) |  | $(2,927)$ |  | 65 |  | 0 |  | 0 |  | 0 |  | $(11,656)$ |  | 0 |  | 0 |
| 19 | Depreciation and Amortization Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | Depreciation |  |  |  |  |  |  |  | $(10,946)$ |  | $(4,946)$ |  |  |  | $(12,820)$ |  | $(2,231)$ |  |  |
| 21 | Amort. \& Depl. of Utility Plant |  |  |  |  |  |  |  | $(6,670)$ |  |  |  |  |  |  |  |  |  |  |
| 22 | Amort. of Utility Plant Acq. Adj. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | Net Amortization of Regulatory Credits/Debits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | (25) |
| 24 | Total Depreciation and Amtz. Expenses |  | 0 |  | 0 |  | 0 |  | (17,615) |  | $(4,946)$ |  | 0 |  | $(12,820)$ |  | $(2,231)$ |  | (25) |
| 25 | Taxes Other Than Income Taxes |  |  |  |  |  |  |  |  |  |  |  |  |  | $(5,963)$ |  |  |  |  |
| 26 | Income Taxes-State and Municipal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 | Current |  |  |  |  |  |  |  |  |  |  |  | $(1,276)$ |  |  |  |  |  |  |
| 28 | Provision for Deferred Income Taxes |  |  |  |  |  |  |  |  |  |  |  | 561 |  |  |  |  |  |  |
| 29 | Provision for Deferred Income Taxes-Credit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 | Total State \& Local Income Taxes |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | (715) |  | 0 |  | 0 |  | 0 |
| 31 | Income Taxes-Federal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 | Current |  |  |  |  |  |  |  |  |  |  |  | $(40,028)$ |  |  |  |  |  |  |
| 33 | Provision for Deferred Income Taxes |  |  |  |  |  |  |  |  |  |  |  | $(24,471)$ |  |  |  |  |  |  |
| 34 | Provision for Deferred Income Taxes-Credit |  |  |  |  |  |  |  |  |  |  |  | 0 |  |  |  |  |  |  |
| 35 | Total Federal Income Taxes |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | (64,499) |  | 0 |  | 0 |  | 0 |
| 36 | Total Operating Expenses |  | (135) |  | $(2,927)$ |  | 65 |  | (17,615) |  | $(4,946)$ |  | $(65,214)$ |  | $(30,439)$ |  | $(2,231)$ |  | (25) |
| 37 | Net Electric Operating Income | \$ | 135 | \$ | 2,927 | \$ | (65) | \$ | 17,615 | \$ | 4,946 | \$ | 65,214 | \$ | $(4,800)$ | \$ | $\underline{(242,341)}$ | \$ | $(13,639)$ |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Summary of Jurisdictional Adjustments to Operating Income
Test Year: Twelve Months Ended November 30, 2020


## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Summary of Jurisdictional Adjustments to Operating Income Test Year: Twelve Months Ended November 30, 2020 <br> Test Year: Twelve Months Ended November 30, 2020



## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Universal Service Fund Rider

Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s):
Schedule C-3.
Schedule E-4, Schedule B-7

## Page 1 of 1

| $\begin{array}{\|l\|l\|} \hline \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  | G) |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove the effects of Universal Service Fund (USF) from the distribution test year |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of electricity (billings to customers) | \$ $(81,122)$ | ALLDIST | 100.00\% | \$ | $(81,122)$ |
| 5 |  |  |  |  |  |  |  |
| 6 | 440-445 | Sales of electricity (Public Funds Amortization) | $(1,375)$ | ALLDIST | 100.00\% |  | $(1,375)$ |
| 7 |  |  |  |  |  |  |  |
| 8 | 9040000 | Uncoll Accts - Pct Income Plan (9040002) | $(106,025)$ | ALLDIST | 100.00\% |  | $(106,025)$ |
| 9 |  |  |  |  |  |  |  |
| 10 |  | Total Adjustment to Flow through to the Schedule C-3 |  |  |  | \$ | 23,528 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
kWh Tax Rider
Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s): Schedule C-3.2
Schedule E-4, Schedule B-7

| $\begin{array}{\|l\|l\|} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  | (G) |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove the effects of the kWh Tax Rider from the distr |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of electricity (billings to customers) | \$ $(144,527)$ | ALLDIST | 100.00\% | \$ | $(144,527)$ |
| 5 |  |  |  |  |  |  |  |
| 6 | 4081010 | Revenue-kWH Taxes | $(145,073)$ | ALLDIST | 100.00\% |  | $(145,073)$ |
| 7 |  |  |  |  |  |  |  |
| 8 |  | Total Adjustment to Flow through to the Schedule C-3 |  |  |  | \$ | 546 |

## OHIO POWER COMPANY

## Case No. 20-585-EL-AIR

## Energy Efficiency \& Peak Demand Reduction Rider <br> Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s):
Schedule C-3.3
Schedule E-4, Schedule B-7, WP C-3.3a
Page 1 of 1

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  | G) |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove the effect of the Energy Efficiency and Peak Demand Reduction (EE/EDR) rider from the distribution test year |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of electricity (billings to customers) | \$ $(111,856)$ | ALLDIST | 100.00\% | \$ | $(111,856)$ |
| 5 |  |  |  |  |  |  |  |
| 6 | 440-445 | Sales of Electricity 50\% IRP to customers | 13,716 | ALLDIST | 100.00\% |  | 13,716 |
| 7 |  |  |  |  |  |  |  |
| 8 | 9030001 | Customer Orders \& Inquiries | - | ALLDIST | 100.00\% |  | - |
| 9 | 9070000 | Supervision - Customer Service | (0) | ALLDIST | 100.00\% |  | (0) |
| 10 | 9070001 | Supervision - DSM | (243) | ALLDIST | 100.00\% |  | (243) |
| 11 | 9080000 | Customer Assistance Expenses | (0) | ALLDIST | 100.00\% |  | (0) |
| 12 | 9080009 | Cust Assistance Expense - DSM | $(82,116)$ | ALLDIST | 100.00\% |  | $(82,116)$ |
| 13 | 9080014 | DSM Costs Deferred | $(15,099)$ | ALLDIST | 100.00\% |  | $(15,099)$ |
| 14 | 9110001 | Supervision - Residential | (36) | ALLDIST | 100.00\% |  | (36) |
| 15 | 9110002 | Supervision - Comm \& Ind | (144) | ALLDIST | 100.00\% |  | (144) |
| 16 | 9200000 | Administrative \& Gen Salaries | - | ALLDIST | 100.00\% |  | - |
| 17 | 9210001 | Off Supl \& Exp - Nonassociated | (1) | ALLDIST | 100.00\% |  | (1) |
| 18 | 9230001 | Outside Svcs Empl - Nonassoc | - | ALLDIST | 100.00\% |  | - |
| 19 | 9301002 | Radio Station Advertising Time | - | ALLDIST | 100.00\% |  | - |
| 20 | 9301015 | Special Adv Space \& Prod Exp | (261) | ALLDIST | 100.00\% |  | (261) |
| 21 | 9302000 | Misc General Expenses | (24) | ALLDIST | 100.00\% |  | (24) |
| 22 |  | Total O\&M | $(97,924)$ |  |  |  | $(97,924)$ |
| 23 |  |  |  |  |  |  |  |
| 24 |  | Total Adjustment to Flow through to the Schedule C-3 |  |  |  | \$ | (216) |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Economic Development Recovery Rider

Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove the effects of the Economic Development Recovery Rider (EDR) from the distribution test year |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of electricity (billings to customers) | \$ $(8,465)$ | ALLDIST | 100.00\% | \$ | $(8,465)$ |
| 5 |  |  |  |  |  |  |  |
| 5 | 440-445 | Sales of electricity (IRP credit) - Company Billing System 50\% | 13,778 | ALLDIST | 100.00\% |  | 13,778 |
| 6 |  | through EDR and other credits |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 | 440-445 | Sales of Electricity Over/under | (941) | ALLDIST | 100.00\% |  | (941) |
| 9 |  |  |  |  |  |  |  |
| 10 |  | Total Revenues | \$ 4,371 |  |  | \$ | 4,371 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Enhanced Service Reliability Rider
Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s):

| $\begin{array}{\|l\|l} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove the effect of the Enhanced Service Reliability Rider (ESRR) from the distribution test year |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of Electricity | \$ (21,779) |  |  |  |  |
| 5 |  | Total Revenue | $(21,779)$ | ALLDIST | 100.00\% | \$ | $(21,779)$ |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 | 5930009 | ESRR-OvUnd Maint Ovh Lines | $(6,562)$ | ALLDIST | 100.00\% |  | $(6,562)$ |
| 9 |  | Total O\&M | \$ (6,562) |  |  | \$ | $(6,562)$ |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> <br> Adjust Incentive Compensation <br> <br> Adjust Incentive Compensation <br> Test Year: Twelve Months Ended November 30, 2020 <br> (\$000) 

Work Paper Reference No(s):
WP C-3.6, Schedule B-7

| $\begin{array}{\|l\|} \hline \text { LINE } \\ \text { NO } \\ \hline \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTIONACCOUNT TITLE | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To decrease ICP in the test year to a target level |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 | 5800 | Supervision \& Engineering | \$ 0 | ALLDIST | 100.00000\% | \$ | 0 |
| 6 | 5820 | Station Equipment | - | ALLDIST | 100.00000\% |  | - |
| 7 | 5830 | Overhead Lines | - | ALLDIST | 100.00000\% |  | - |
| 8 | 5840 | Underground Lines | - | ALLDIST | 100.00000\% |  | - |
| 9 | 5850 | Street \& Area Lighting | - | ALLDIST | 100.00000\% |  | - |
| 10 | 5860 | Meters | - | ALLDIST | 100.00000\% |  | - |
| 11 | 5870 | Customer Installations | - | ALLDIST | 100.00000\% |  | - |
| 12 | 5880 | Miscellaneous Distribution Exp | - | ALLDIST | 100.00000\% |  | - |
| 13 | 5890 | Rents - Nonassociated | - | ALLDIST | 100.00000\% |  | - |
| 14 | 5900 | Supervision \& Engineering | - | ALLDIST | 100.00000\% |  | - |
| 15 | 5920 | Station Equipment | - | ALLDIST | 100.00000\% |  | - |
| 16 | 5930 | Maintenance of Overhead Lines | - | ALLDIST | 100.00000\% |  | - |
| 17 | 5940 | Underground Lines | - | ALLDIST | 100.00000\% |  | - |
| 18 | 5950 | Line Transformers | - | ALLDIST | 100.00000\% |  | - |
| 19 | 5960 | Street \& Area Lighting | - | ALLDIST | 100.00000\% |  | - |
| 20 | 5970 | Meters | - | ALLDIST | 100.00000\% |  | - |
| 21 | 5980 | Misc Distribution Plant | - | ALLDIST | 100.00000\% |  | - |
| 22 | 9010 | Supervision \& Engineering | - | ALLDIST | 100.00000\% |  | - |
| 23 | 9020 | Meter Reading | - | ALLDIST | 100.00000\% |  | - |
| 24 | 9030 | Customer Records \& Collection Expense | - | ALLDIST | 100.00000\% |  | - |
| 25 | 9070 | Supervision | - | ALLDIST | 100.00000\% |  | - |
| 26 | 9080 | Customer Assistance Expenses | - | ALLDIST | 100.00000\% |  | - |
| 27 | 9100 | Misc Customer Service | - | ALLDIST | 100.00000\% |  | - |
| 28 | 9110 | Supervision | - | ALLDIST | 100.00000\% |  | - |
| 29 | 9200 | Salaries | - | A\&G1 | 0.832526 |  | - |
| 30 | 9250 | Injuries \& Damages | - | A\&G8 | 0.9613383 |  | - |
| 31 | 9280 | Employee Benefits | - | A\&G16 | 0.9556561 |  | - |
| 32 | 9301 | General Advertising Expense | - | - | - |  | - |
| 33 | 9302 | Assoc Business Development Exp | - | A\&G18 | 0.8526956 |  | - |
| 34 | 9350 | Admin \& General Maintenance | - 0 | A\&G21 | 0.9164234 |  | - |
| 35 |  | Total Adjustment to Flow through to the Schedule C-3 | \$ 0 |  |  | \$ | 0 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Annualize Labor \& Payroll Expenses

Test Year: Twelve Months Ended November 30, 2020 (\$000)

Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | DESCRIPTION | REFERENCE |  | JURISDICTIONAL AMOUNT |
| :---: | :---: | :---: | :---: | :---: |
| (A) | (B) |  |  | (C) |
| 1 | Purpose and Description: |  |  |  |
| 2 | To adjust Payroll Expenses, AEP Service Company, and Payroll Taxes to reflect Staff adjustments |  |  |  |
| 3 |  |  |  |  |
| 4 | Ohio Power Company |  |  |  |
| 5 | Payroll | Staff WPC-3.7 | \$ | 64,941 |
| 6 |  |  |  |  |
| 7 | As Filed Ohio Power Company Labor | Schedule C-9 |  | 72,128 |
| 8 |  |  |  |  |
| 9 | Total Adjustment |  |  | $(7,186)$ |
| 10 |  |  |  |  |
| 11 | AEP Service Company (AEPSC) |  |  |  |
| 12 | AEPSC Base Pay |  |  |  |
| 13 |  | Staff WPC-3.7 |  | 82,918 |
| 14 | As Filed AEPSC Labor |  |  |  |
| 15 |  | DR 16-37 Att. 1 |  | 93,308 |
| 16 | Total Adjustment |  |  |  |
| 17 |  |  |  | $(10,390)$ |
| 18 |  |  |  |  |
| 19 | Total Labor and Payroll Expense Adjustment |  | \$ | $(17,576)$ |
| 20 |  |  |  |  |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> <br> PAYROLL TAX CALCULATION <br> <br> PAYROLL TAX CALCULATION <br> Test Year: Twelve Months Ended November 30, 2020 <br> (\$000) 

Work Paper Reference No(s): Schedule C-3.7

| LINE <br> NO | DESCRIPTION | REFERENCE |
| :---: | :---: | :---: |
| (A) | (B) |  |
| AMRISDICTIONAL |  |  |
| AMOUNT |  |  |

Purpose and Description:
To adjust payroll tax expense \& account for employee savings plan contribution

Employee Benefits - Savings Plan Contribution
60

Staff's annualized payroll tax for the test year
Staff WPC-3.7b
5,193

Payroll tax included in the test year
Applicant Schedule C-2.1

[^19]$\$(1,428)$

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Energy Efficiency \& Peak Demand Reduction Labor <br> Test Year: Twelve Months Ended November 30, 2020 (\$000) 

Work Paper Reference No(s): WP C-3.8a

| LINE | ACCT | PURPOSE AND DESCRIPTION | TOTAL | ALLO | TION |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NO | NO | ACCOUNT TITLE | ADJUSTMENT | CODE | \% |  | NT |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove Energy Efficiency \& Peak Demand Reduction (EEPDR) |  |  |  |  |  |
| 3 |  | labor and fringes in the distribution test year |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 | 9070001 | Supervision - DSM | \$ 177 | ALLDIST | 100.00\% | \$ | 177 |
| 6 | 9080009 | Cust Assistance Expense - DSM | 4,790 | ALLDIST | 100.00\% |  | 4,790 |
| 7 | 9110001 | Supervision - Residential | 35 | ALLDIST | 100.00\% |  | 35 |
| 8 | 9110002 | Supervision - Comm \& Ind | 139 | ALLDIST | 100.00\% |  | 139 |
| 9 |  | Total | 5,142 |  |  |  | 5,142 |
| 10 |  |  |  |  |  |  |  |
| 11 |  | Staff's Adjusted Energy Efficiency \& Peak Demand Reduction Labor: |  |  |  |  |  |
| 12 | 9070001 | Staff's Adjusted Supervision - DSM | (177) | ALLDIST | 100.00\% |  | (177) |
| 13 | 9080009 | Staff's Adjusted Cust Assistance Expense - DSM | $(4,790)$ | ALLDIST | 100.00\% |  | $(4,790)$ |
| 14 | 9110001 | Staff's Adjusted Supervision - Residential | (35) | ALLDIST | 100.00\% |  | (35) |
| 15 | 9110002 | Staff's Adjusted Supervision - Comm \& Ind | (139) | ALLDIST | 100.00\% |  | (139) |
| 16 |  |  |  |  |  |  |  |
| 17 |  | Staff's Adjustment to Exclude EE \& Peak Demand Reduction Labor and Fringes from the Distribution Test Yea | $(5,142)$ |  |  |  | $(5,142)$ |
| 18 |  |  |  |  |  |  |  |
| 19 |  | Total Adjustment to Flow through to the Schedule C-3 | \$ 0 |  |  | \$ | 0 |

OHIO POWER COMPANY
Case No. 20-585-EL-AIR

## Annualize Pension Expense

Test Year: Twelve Months Ended November 30, 2020 (\$000)

Work Paper Reference No(s): Schedule C-3.9
WP C-3.9

| LINE <br> NO | ACCT <br> NO |  | DESCRIPTION | JURISDICTIONAL <br> AMOUNT |
| :---: | :---: | :--- | :---: | :---: |
| (A) | (B) | (C) | (E) |  |
| 1 |  | Purpose and Description: <br> 2 |  | To adjust pension expense. |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Annualize OPEB Expense <br> Test Year: Twelve Months Ended November 30, 2020 <br> (\$000) 

Work Paper Reference No(s):
WP C-3.10


# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> <br> Amortize Rate Case Expense <br> <br> Amortize Rate Case Expense <br> Test Year: Twelve Months Ended November 30, 2020 <br> (\$000) 

Work Paper Reference No(s):
Schedule C-3.11
Schedule C-8, Schedule B-7

| $\begin{array}{\|l} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: (C) (C) |  |  |  |  |  |
| 2 |  | To include in the test year - amortization of the estimated rate case expense over three years |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 9280003 | Rate Case Amortization | \$ 65 | ALLDIST | 100.00\% | \$ | 65 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Annualize Depreciation Expense
Test Year: Twelve Months Ended November 30, 2020

Work Paper Reference No(s): WP C-3.12a \& C-3.13a, WP C-3.12b
WP B-3.2a, Schedule B-7


Purpose and Description:
To compare the depreciation expense in the test year to the annualized depreciation expense recorded based on the date certain plant balances as of December 31, 2019

Depreciation Expense

## Distribution

Depreciation Expense Annualized as of
December 31, 2019 Plant Balances \$ 175,507
Depreciation Expense for Test Year
Adjustment to Depreciation Expense on Annualized basis to Test Year \$
$(8,171)$
ALLDIST
100.00\%
\$
$(8,171)$

## General

Depreciation Expense Annualized as of
December 31, 2019 Plant Balances 10,434
Depreciation Expense for Test Year 14,157
Adjustment to Depreciation Expense on Annualized basis to Test Year $\quad(3,723) \quad$ DEPR2 $\quad 74.53 \%$

## Intangible

Amortization Expense Annualized as of
November 30,2020 Plant Balances
23,654
Amortization Expense for Test Year
31,164
Adjustment to Amortization Expense on Annualized basis to Test Yea
$\stackrel{31,164}{ }$

Total Adjustment to Flow through to the Schedule C-3

| $\$ \quad(19,404)$ |
| :--- |


| $\$ \quad(17,615)$ |
| :--- |

## Depreciation Rate Adjustment

Test Year: Twelve Months Ended November 30, 2020

Work Paper Reference No(s): WP C-3.12a \& C-3.13a
Schedule C-3.13
Schedule C-3.12, Schedule B-7


# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> <br> Federal \& State Income Taxes <br> <br> Federal \& State Income Taxes <br> Test Year: Twelve Months Ended November 30, 2020 <br> <br> (\$000) 

 <br> <br> (\$000)}

Work Paper Reference No(s):
Schedule C-3.14
Schedule C-3.19, C-4

| $\begin{array}{\|l\|l} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To Adjust State, Local and Federal Income Tax Expense for impacts |  |  |  |  |  |
| 3 |  | related to Going-Level Adjustments |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 | 409.1 | Current State \& Local Income Tax Expense | \$ (1,276) | DIRECT | 100\% | \$ | $(1,276)$ |
| 7 |  |  |  |  |  |  |  |
| 8 | 410.1 \& 411.1 | Deferred State \& Local Income Tax Expense | 561 | DIRECT | 100\% |  | 561 |
| 9 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |
| 13 | 409.1 | Current Federal Income Tax Expense | $(40,028)$ | DIRECT | 100\% |  | $(40,028)$ |
| 14 |  |  |  |  |  |  |  |
| 15 | 410.1 | Deferred Federal Income Tax Expense | $(3,558)$ | DIRECT | 100\% |  | $(3,558)$ |
| 16 |  |  |  |  |  |  |  |
| 17 | 410.1 \& 411.1 | Provision for Deferred Income Taxes | $(20,912)$ | DIRECT | 100\% |  | $(20,912)$ |
| 18 |  |  |  |  |  |  |  |
| 19 | 411.4 \& 411.5 | Deferred Investment Tax Credit Expense | - | DIRECT | 100\% |  | - |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Smart Grid Rider
Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT |  | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) |  | (E) | (F) | (G) |  |
| 1 | Purpose and Description: |  |  |  |  |  |  |  |
| 2 | To remove the effect of the Smart Grid Rider from the test period |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of electricity (billings to customers) | \$ | $(35,239)$ | ALLDIST | 100.00\% | \$ | $(35,239)$ |
| 5 ( 5 |  |  |  |  |  |  |  |  |
| 6 | 4030001 | Depreciation |  | $(12,829)$ | ALLDIST | 100.00\% |  | $(12,829)$ |
| 7 | 4030011 | Depr. Over/Under |  | 10 | ALLDIST | 100.00\% |  | 10 |
| 8 | 408XXXX | Property Taxes |  | $(5,963)$ | ALLDIST | 100.00\% |  | $(5,963)$ |
| 9 | 5860000 | Meter Expenses (Severance) |  | (72) | ALLDIST | 100.00\% |  | (72) |
| 10 | 5880000 | Misc. Distribution Expense |  | $(11,585)$ | ALLDIST | 100.00\% |  | $(11,585)$ |
| 11 |  | Total Expense | \$ | $(30,439)$ |  |  | \$ | $\underline{(30,439)}$ |

## Distribution Investment Rider

## Test Year: Twelve Months Ended November 30, 2020

(\$000)
Work Paper Reference No(s):
Schedule C-3.16
Schedule E-4, Schedule B-7

| $\begin{array}{\|l\|l} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  | G) |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove the effects of Distribution Investment Rider from the distribution test year |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of electricity (billings to customers) | \$ $(244,573)$ | ALLDIST | 100.00\% | \$ | $(244,573)$ |
| 5 |  |  |  |  |  |  |  |
| 6 | 4030015 | DIR Over/Under Depreciation Expense | $(2,231)$ | ALLDIST | 100.00\% |  | $(2,231)$ |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  | \$ | (242,341) |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Remove effect of Pilot Throughput Balancing Adjustment Rider

## Test Year: Twelve Months Ended November 30, 2020

(\$000)
Work Paper Reference No(s):
Schedule C-3.17
Schedule B-7, Schedule E-4

| $\begin{array}{\|l} \hline \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  |  |  |  |  |  |  |
| 2 | Purpose and Description: |  |  |  |  |  |  |
| 3 | To remove the effect of the PTBAR amortization and deferral from the distribution test year |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 | 440-445 | Revenues - PTBAR Collections | \$ $(9,474)$ | ALLDIST | 100.00\% | \$ | $(9,474)$ |
| 6 | 440-445 | Revenues - Deferral of 2019 PTBAR | $(5,059)$ | ALLDIST | 100.00\% |  | $(5,059)$ |
| 7 | 440-445 | Revenues - Amortization of PTBAR Deferral | 869 | ALLDIST | 100.00\% |  | 869 |
| 8 |  | Total Revenues | $(13,664)$ |  |  |  | $(13,664)$ |
| 9 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |
| 11 | 4073000 | Regulatory Debits - Amortization of PTBAR CC | \$ (25) | ALLDIST | 100.00\% | \$ | (25) |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Storm Expense Adjustment
Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s): Schedule C-3.18
Schedule B-7

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | Adjust O\&M Storm Expense to 5 year average |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 5930000 | Storm Expense in Rates Year ending 11/30/2020 | \$ 5,120 | ALLDIST | 100.00\% | \$ | 5,120 |
| 5 |  |  |  |  |  |  |  |
| 6 |  | 5 year Average Storm Expense | 3,341 | ALLDIST | 100.00\% |  | 3,341 |
| 7 |  |  |  |  |  |  |  |
| 8 |  | Increase/(Decrease) to Account 593 | \$ (1,779) | ALLDIST | 100.00\% | \$ | $(1,779)$ |
| 9 |  | Maintenance of Overhead Lines |  |  |  |  |  |

## OHIO POWER COMPANY

## Case No. 20-585-EL-AIR

Remove Effects of the Tax Savings Credit Rider Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s): WP C-3.19a, WP C-3.19b
WP C-2.1a thru g, Schedule E-4, Schedule B-7


## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Smart City Rider
Test Year: Twelve Months Ended November 30, 2020
(\$000)
Work Paper Reference No(s): Schedule C-3.20
Schedule E-4, Schedule B-7

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) |  |
| 1 | Purpose and Description: |  |  |  |  |  |  |
| 2 | To remove the effects of the Smart City rider from the distribution test year |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 440-445 | Sales of electricity (billings to customers) | \$ $\quad(5,844)$ | ALLDIST | 100.00\% | \$ | $(5,844)$ |
| 5 |  |  |  |  |  |  |  |
| 6 | 4560007 | Other Electric Revenues - DSM Program | (11) | ALLDIST | 100.00\% |  | (11) |
| 7 |  |  |  |  |  |  |  |
| 8 | 9080009 | Customer Assistance Expense - DSM | (696) | ALLDIST | 100.00\% |  | (696) |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> To Include Credit Card Processing Fees in the Test Year <br> Test Year: Twelve Months Ended November 30, 2020 <br> (\$000) 

Work Paper Reference No(s): Schedule C-3.21
WP C-3.21, Schedule B-7

| $\begin{array}{\|c} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) |
| 1 |  | Purpose and Description: |  |  |  |  |
| 2 |  | To Reject Company's Proposal to Include Credit Ca | in Test Year |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 | 9030000 | Customer Records \& Collection Expense | \$ 0 | ALLDIST | 100.00\% | \$ 0 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Demand Side Management Program

Test Year: Twelve Months Ended November 30, 2020
(\$000)
Work Paper Reference No(s):


## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Communication Plan Expense

Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s):
Schedule C-3.23
Schedule B-7

| $\begin{array}{\|l\|l\|} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) |
| 1 |  | Purpose and Description: |  |  |  |  |
| 2 |  | To Reject the Company's Proposal to Include Communication Plan |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 | 9301000 | General Advertising | \$ 0 | ALLDIST | 100.00\% | \$ 0 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> <br> Adjust Miscellaneous Bad Debt Expense <br> <br> Adjust Miscellaneous Bad Debt Expense <br> <br> Test Year: Twelve Months Ended November 30, 2020 <br> <br> Test Year: Twelve Months Ended November 30, 2020 <br> (\$000) 

Work Paper Reference No(s): Schedule C-3.24
Schedule B-7


# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Property Tax Calculation <br> Test Year: Twelve Months Ended November 30, 2020 <br> (\$000) 

Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | DESCRIPTION | REFERENCE | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) |  |  |  |
| 1 |  | Purpose and Description: |  |  |  |
| 2 |  | To adjust property tax expense. |  |  |  |
| 3 |  |  |  |  |  |
| 4 | 408.1x | Property tax included in the test year | Applicant Schedule C-2.1 | \$ | 207,929 |
| 5 |  |  |  |  |  |
| 6 | 408.1x | Staff's annualized property tax for the test year |  |  | 191,197 |
| 7 |  | Adjustment to normalize property tax expense (Line 6 - Line 4) |  | \$ | $(16,732)$ |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Revenue Adjustment
Test Year: Twelve Months Ended November 30, 2020

| $\begin{array}{\|l} \text { LINE } \\ \text { NO } \end{array}$ | $\begin{aligned} & \text { ACCT } \\ & \text { NO } \end{aligned}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT |  | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  |  | CODE | \% |  |  |
| (A) | (B) | (C) |  | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |  |
| 2 |  | To adjust revenues based on actual customer bills |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 | 440-445 | Staff Adjusted Distribution Retail Revenue | \$ | 630,301 | ALLDIST | 100.00\% | \$ | 630,301 |
| 5 | 440-445 | Test Year Distribution Retail Revenue |  | 629,377 | ALLDIST | 100.00\% |  | 629,377 |
| 6 |  | Total Adjustment | \$ | 924 | ALLDIST | 100.00\% | \$ | 924 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Distribution Misc. Revenue Adjustment
Test Year: Twelve Months Ended November 30, 2020

Work Paper Reference No(s):
Staff WP C-3.27

Page 1 of 1

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) |
| 1 |  | Purpose and Description: |  |  |  |  |
| 2 |  | To adjust revenues to account for misc revenue accounts |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 | 450-456 | Staff Adjusted Distribution Misc Revenue | \$ 6,707 |  |  |  |
| 5 | 450-456 | Test Year Distribution Misc Revenue | 10,107 |  |  |  |
| 6 |  |  |  |  |  |  |
| 7 |  | Total Adjustment | \$ (3,400) | ALLDIST | 100.00\% | $(3,400)$ |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Late Fee Revenue Adjustment
Test Year: Twelve Months Ended November 30, 2020
(\$000)

Work Paper Reference No (s):
Schedule E-4 \& WP C-3.28

| $\begin{gathered} \text { LINE } \\ \text { NO } \end{gathered}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT |  | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  |  | CODE | \% |  |  |
| (A) | (B) | (C) |  |  | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |  |
| 2 |  | To adjust revenues based on the addition of residential late fees |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 | 450-456 | Staff Adjusted Distribution Misc Revenue - Residential Late Fees | \$ | 3,160 | ALLDIST | 100.00\% | \$ | 3,160 |
| 5 | 450-456 | Test Year Distribution Misc Revenue - Residential Late Fees |  | 0 | ALLDIST | 100.00\% |  | 0 |
| 6 |  | Total Adjustment | \$ | 3,160 | ALLDIST | 100.00\% | \$ | 3,160 |

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Out of Period Expenses
Test Year: Twelve Months Ended November 30, 2020 (\$000)

Work Paper Reference No(s):

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT |  | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  |  | CODE | \% |  |  |
| (A) | (B) | (C) |  | (D) | (E) | (F) |  |  |
| 1 | Purpose and Description: |  |  |  |  |  |  |  |
| 2 | To remove expenses that occurred outside of the test year period |  |  |  |  |  |  |  |
| $3 \sim$ |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |
| 5 | 5800000 | Supervision \& Engineering | \$ | (7) | ALLDIST | 100\% | \$ | (7) |
| 6 | 5830000 | Overhead Lines |  | (7) | ALLDIST | 100\% |  | (7) |
| 7 | 5880000 | Miscellaneous Distribution Exp |  | (1) | ALLDIST | 100\% |  | (1) |
| 8 | 5920000 | Station Equipment |  | (60) | ALLDIST | 100\% |  | (60) |
| 9 | 5930000 | Maintenance of Overhead Lines |  | $(3,756)$ | ALLDIST | 100\% |  | $(3,756)$ |
| 10 | 5940000 | Underground Lines |  | (18) | ALLDIST | 100\% |  | (18) |
| 11 | 5950000 | Line Transformers |  | (97) | ALLDIST | 100\% |  | (97) |
| 12 | 5980000 | Misc Distribution Plant |  | (0) | ALLDIST | 100\% |  | (0) |
| 13 | 9010000 | Supervision \& Engineering |  | (1) | ALLDIST | 100\% |  | (1) |
| 14 | 9020000 | Meter Reading |  | (24) | ALLDIST | 100\% |  | (24) |
| 15 | 9030000 | Customer Records \& Collection Expense |  | (5) | ALLDIST | 100\% |  | (5) |
| 16 | 9080000 | Customer Assistance Expenses |  | (0) | ALLDIST | 100\% |  | (0) |
| 17 | 9210000 | Office Supplies |  | (16) | A\&G2 | 93.2887\% |  | (15) |
| 18 | 9230001 | Outside Services |  | (3) | A\&G5 | 81.9317\% |  | (3) |
| 19 | 9230024 | Outside Services - All Other |  | (0) | A\&G4 | 98.6059\% |  | (0) |
| 20 | 9250000 | Injuries \& Damages |  | (0) | A\&G8 | 96.1338\% |  | (0) |
| 21 | 9280000 | Regulatory Commission Expenses |  | (30) | A\&G16 | 95.5656\% |  | (28) |
| 22 | 9301000 | General Advertising Expenses |  | (2) | A\&G17 | 99.9565\% |  | (2) |
| 23 | 9302007 | Assoc Business Development Exp |  | (0) | A\&G19 | 76.0346\% |  | (0) |
| 24 | 9350000 | Maintenance of General Plant |  | (64) | A\&G21 | 91.6423\% |  | (58) |
| 25 |  | Total Adjustment to Flow through to the Schedule C-3 | \$ | $(4,091)$ |  |  | \$ | $(4,083)$ |

## OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR

Remove Promotional Advertising Expenses
Test Year: Twelve Months Ended November 30, 2020

Work Paper Reference No(s):
Staff WPC-3.30
Page 1 of 1

| $\begin{array}{\|l\|l\|} \hline \text { LINE } \end{array}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To remove advertising expenses that are promotional in nature |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 | 9301000 | General Advertising Expenses | \$ (132) | A\&G17 | 99.9565\% | \$ | (132) |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Miscellaneous Expenses
Test Year: Twelve Months Ended November 30, 2020 (\$000)

Work Paper Reference No(s): Schedule C-3.31
Staff WPC-3.31


## OHIO POWER COMPANY

## Case No. 20-585-EL-AIR

Pole Attachments
Test Year: Twelve Months Ended November 30, 2020 (\$000)

Work Paper Reference No(s):
Staff WPC-3.31
Page 1 of 1

| $\begin{gathered} \text { LINE } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT |  | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | CODE | \% |  |  |
| (A) | (B) | (C) |  | (D) | (E) | (F) |  |
| 1 | Current Tariffed Pole Attachment Rate per Year (a) | \$ | 9.59 |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 | Staff Proposed Pole Attachment Rate per Year (b) |  | 9.38 |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 | Rate Reduction (3) - (1) |  | (0.21) |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 | Number of Attachments billed at Tariffed Rate 2019 (c) |  | ,234 |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 | Adjustment (5) $\times$ (7) | \$ | (145) | OTHREV5 | 98.8029\% | \$ | (143) |

(a) Company Tariff
(b) Staff WPC-3.32
(c) Staff DR \#63

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Enhanced Service Reliability Rider (ESRR) Baseline Test Year: Twelve Months Ended November 30, 2020
(\$000)

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | $\begin{gathered} \text { ACCT } \\ \text { NO } \end{gathered}$ | PURPOSE AND DESCRIPTION | TOTAL ADJUSTMENT | ALLOCATION |  | JURISDICTIONAL AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ACCOUNT TITLE |  | CODE | \% |  |  |
| (A) | (B) | (C) | (D) | (E) | (F) |  |  |
| 1 |  | Purpose and Description: |  |  |  |  |  |
| 2 |  | To adjust expenses in order to shift a portion of vegetation management program costs from base rates into the ESRR |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  | Staff Adjusted Vegetation Management | \$ 35,091 |  |  |  |  |
| 5 |  | Test Year Vegetation Management | 45,091 |  |  |  |  |
| 6 |  | Total Adjustment | \$ $(10,000)$ | ALLDIST | 100.00\% | \$ | $(10,000)$ |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Adjusted Jurisdictional Income Taxes Test Year: Twelve Months Ended November 30, 2020 (\$000)

Work Paper Reference No(s):
Schedule C-4
Schedule C-4.1, Company WP C-4.1a thru q, Staff WPC-4a \& b

| $\begin{array}{\|l\|l} \text { LINE } \\ \text { NO } \end{array}$ | DESCRIPTION | AT CURRENT RATES |  |  |  |  |  | AT PROPOSED RATES |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | UNADJUSTED |  | ADJUSTMENTS |  | ADJUSTED |  | PERFORMA ADJUSTMENTS |  | PROFORMA |  |
| (A) | (B) | (C) |  | (D) |  | (E) |  | (F) |  | (G) |  |
| 1 | Operating Income Before State \& Local Income Taxes | \$ | 119,517 | \$ | $(117,430)$ | \$ | 2,087 | \$ | - | \$ | 2,087 |
| 2 | Current State \& Local Income Tax Expense |  | (114) |  | 114 |  | 0 |  | 0 |  | 0 |
| 3 | Operating Income Before Federal Income Taxes |  | 119,631 |  | $(117,544)$ |  | 2,087 |  | 0 |  | 2,087 |
| 4 | Reconciling Items: Interest Charges (Synchronization) |  | $(6,194)$ |  | $(62,881)$ |  | $(69,075)$ |  | 0 |  | $(69,075)$ |
| Schedule M Reconciling Items: |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Tax Accelerated Depreciation |  | 243,413 |  | $(26,081)$ |  | 217,332 |  | 0 |  | 217,332 |
| 6 | Book Depreciation (C-2 Line 25) |  | 213,766 |  | $(26,081)$ |  | 176,155 |  | 0 |  | 176,155 |
| 7 | Excess of Tax Over Book Depreciation |  | $(29,647)$ |  | 0 |  | $(41,178)$ |  | 0 |  | $(41,178)$ |
| Other Reconciling Items |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Permanent Differences |  | 169 |  |  |  | 169 |  |  |  |  |
| 9 | Temporary Differences |  | $(63,623)$ |  |  |  | $(63,623)$ |  |  |  |  |
| 10 | Total Other Reconciling Items |  | $(63,455)$ |  | 0 |  | $(63,455)$ |  | 0 |  | $(63,455)$ |
| 11 | Total Schedule M Reconciling Items (Line 7 + Line 10) |  | $(93,102)$ |  | 0 |  | $(104,632)$ |  | 0 |  | $(104,632)$ |
| 12 | Federal Taxable Income | \$ | 20,335 | \$ | $(180,425)$ | \$ | $(171,621)$ | \$ | - | \$ | $(171,621)$ |

Federal, State, Local Income Taxes:
Federal @ 20.835213\% Effective Rate
State \& Local @ Various Effective Tax Rates

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR
Adjusted Jurisdictional Income Taxes Test Year: Twelve Months Ended November 30, 2020 (\$000)

Work Paper Reference No(s):
Schedule C-4
Schedule C-4.1, Company WP C-4.1a thru q, Staff WPC-4a \& b

| $\begin{array}{\|l\|l} \text { LINE } \\ \text { NO } \end{array}$ | DESCRIPTION | AT CURRENT RATES |  |  | AT PROPOSED RATES |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | UNADJUSTED | ADJUSTMENTS | ADJUSTED | PERFORMA ADJUSTMENTS | PROFORMA |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) |
| 13 | Current Federal Income Tax @ Effective Rates (Staff WPC-4b) | 4,270 | \$ $(40,028)$ | $(35,758)$ | \$ 82,148 | \$ 46,391 |
| 14 | Adjustments | $(6,563)$ | 0 | $(6,563)$ | 0 | $(6,563)$ |
| 15 | Current Federal Income Tax Expense | $(2,293)$ | $(40,028)$ | $(42,321)$ | 82,148 | 39,827 |
|  | Deferred Income Tax Expense (Net): |  |  |  |  |  |
| 16 | Depreciation Related (Line 7 * 20.835213\%) [WPC-4b] | 5,154 | 3,425 | 8,579 | 0 | 8,579 |
| 17 | Excess DFIT Reversal - Depreciation | 0 | 0 | 0 | 0 | 0 |
| 18 | Other Temporary Differences (Line 9 * 20.835213\%) [WPC-4b] | 20,240 | $(6,984)$ | 13,256 | 0 | 13,256 |
| 21 | Total Deferred Income Taxes (Net) | 25,394 | $(3,558)$ | 21,835 | 0 | 21,835 |
| 22 | Amortization of Deferred Investment Tax Credits | (3) | 0 | (3) | 0 | (3) |
| 23 | Total Federal Income Tax Expense (Line 15 + Line 20 + Line 22) | 23,098 | $(43,586)$ | $(20,489)$ | 82,148 | 61,659 |
| 24 | Current State \& Local Income Tax Expense | (71) | $(1,276)$ | $(1,347)$ | \$ 3,094 | 1,747 |
| 25 | Deferred State \& Local Income Tax Expense (Line 19) | 262 | 561 | 822 | 0 | 822 |
| 26 | Total State \& Local Income Tax Expense | 191 | (715) | (524) | 3,094 | 2,570 |
| 25 | Total Income Tax Expense | 23,288 | $(44,301)$ | $(21,013)$ | 85,242 | 64,229 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Development of Jurisdictional Income Taxes Before Adjustments

Test Year: Twelve Months Ended November 30, 2020

## (\$000)

Work Paper Reference No(s):

| $\begin{gathered} \hline \text { LINE } \\ \text { NO } \end{gathered}$ | ACCOUNT TITLE |  | TOTAL UTILITY | $\begin{gathered} \text { ALLOCATION } \\ \% \\ \hline \end{gathered}$ |  | JURISDICTION | ALLOCATION CODE/ EXPLANATION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) |  | (C) | (D) |  | (E) | (F) |
| 1 | Operating Income Before State \& Local Income Taxes | \$ | 378,364 |  | \$ | 119,517 | DIRECT |
| 2 | Current State \& Local Income Tax Expense |  | 492 |  |  | (114) | DIRECT |
| 3 | Operating Income Before Federal Income Taxes |  | 377,872 |  |  | 119,631 | DIRECT |
| 4 | Reconciling Items: Interest Charges |  | $(122,376)$ |  |  | $(6,194)$ | DIRECT |
|  | Schedule M Reconciling Items: |  |  |  |  |  |  |
| 5 | Tax Accelerated Depreciation |  | 354,600 |  |  | 243,413 | DIRECT |
| 6 | Book Depreciation |  | 281,562 |  |  | 213,766 | DIRECT |
| 7 | Excess of Tax Over Book Depreciation |  | $(73,038)$ |  |  | $(29,647)$ | DIRECT |
|  | Other Reconciling Items |  |  |  |  |  |  |
|  | Permanent Differences |  | 1,085 |  |  | 169 |  |
| 8 | Temporary Differences |  | $(85,511)$ |  |  | $(63,623)$ | DIRECT |
| 9 | Total Schedule M Reconciling Items |  | $(157,464)$ |  |  | $(93,102)$ | DIRECT |
| 10 | Federal Taxable Income | \$ | 98,032 |  | \$ | 20,335 | DIRECT |

Federal, State, Local Income Taxes:
11
12
Federal @ 20.835213\% Effective Rate
State \& Local @ Various Effective Tax Rates

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Development of Jurisdictional Income Taxes Before Adjustments

Test Year: Twelve Months Ended November 30, 2020

## (\$000)

| Work Paper Reference No(s): WP C-4.1a thru q |  |  |  |  |  |  | Schedule C-4.1 Page 2 of 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | ACCOUNT TITLE |  | TOTAL UTILITY | $\begin{gathered} \hline \text { ALLOCATION } \\ \% \end{gathered}$ |  | JURISDICTION | ALLOCATION CODE/ EXPLANATION |
| (A) | (B) |  | (C) | (D) |  | (E) | (F) |
| 13 | Current Federal Income Tax @ Statutory Rates | \$ | 20,587 |  | \$ | 4,270 | DIRECT |
| 14 | Adjustments |  | 6,458 |  |  | $(6,563)$ | DIRECT |
| 15 | Current Federal Income Tax Expense |  | 27,045 |  |  | $(2,293)$ | DIRECT |
|  | Deferred Income Tax Expense (Net): |  |  |  |  |  |  |
| 16 | Depreciation Related |  | 2,635 |  |  | 5,154 | DIRECT |
| 17 | Excess DFIT Reversal - Depreciation |  | 0 |  |  | 0 | DIRECT |
| 18 | Other Temporary Differences |  | $(3,898)$ |  |  | 20,240 | DIRECT |
| 19 | Total Deferred Federal Income Taxes (Net) |  | $(1,263)$ |  |  | 25,394 | DIRECT |
| 20 | Amortization of Deferred Investment Tax Credits |  | (4) |  |  | (3) | DIRECT |
| 21 | Total Federal Income Tax Expense |  | 25,778 |  |  | 23,098 | DIRECT |
| 22 | Current State \& Local Income Tax Expense |  | 330 |  |  | (71) | DIRECT |
| 23 | Deferred State \& Local Income Tax Expense |  | 861 |  |  | 262 | DIRECT |
| 24 | Total State \& Local Income Tax Expense |  | 1,190 |  |  | 191 | DIRECT |
| 25 | Total Income Tax Expense |  | 26,968 |  |  | 23,288 | DIRECT |

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Rate of Return Summary

## Work Paper Reference No(s):

Schedule D-1 Page 1 of 1

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | CLASS OF CAPITAL | (\$) <br> AMOUNT | $\begin{aligned} & \text { \% OF } \\ & \text { TOTAL } \end{aligned}$ | $\begin{aligned} & \text { (\%) } \\ & \text { COST } \end{aligned}$ | WEIGHTED COST (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Long-Term Debt | 2,100,000,000 | 45.57\% | 5.22\% | 2.38\% |
| 2 | Preferred Stock | - | 0.00\% | 0.00\% | 0.00\% |
| 3 | Common Equity | 2,508,479,717 | 54.43\% | 8.76\% - 9.78\% | 4.77\% - 5.32\% |
| 4 | Total Capital | 4,608,479,717 | 100\% |  | 7.15\%-7.70\% |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## Equity Issuance Cost Adjustment

Work Paper Reference No(s):
Schedule D-1.2
Page 1 of 1

| $\begin{aligned} & \text { LINE } \\ & \text { NO } \end{aligned}$ | ADJUSTMENT | AMOUNT |  |
| :---: | :---: | :---: | :---: |
| 1 | Retained Earnings ${ }^{1}$ | \$ | 1,348,500,000 |
| 2 | Total Common Equity ${ }^{2}$ | \$ | 2,508,479,717 |
| 3 | Ratio of (1) to (2) |  | 0.53758 |
| 4 | Generic Issuance Cost, f |  | 3.50\% |
| 5 | External Equity Ratio, w [1.0-(3)] |  | 0.46242 |
| 6 | Net Adjustment Factor, (w/(1-f)) + (1-w) |  | 1.01677 |
| 7 | Low End Equity Cost [8.62 x Line (6)] |  | 8.76\% |
| 8 9 | High End Equity Cost [9.62\% x Line (6)] |  | 9.78\% |

Sources:
AEP, Inc. Form 10-K filed with the Securities and Exchange Commission for fiscal year end December

1

2

31, 2019, page 126, Ohio Power Company Consolidated Statements of Changes in Common Shareholder's Equity
Applicant's Schedule D-1

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Capital Asset Pricing Model

Work Paper Reference No(s):
Schedule D-1.3 Page 1 of 1

| Year | Historical View S\&P 500 Return ${ }^{1}$ | LT Composite Yield for US Treasury Bonds ${ }^{2}$ |
| :---: | :---: | :---: |
| 1990* | -3.42\% | 8.58\% |
| 1991* | 30.95\% | 8.00\% |
| 1992* | 7.60\% | 7.34\% |
| 1993* | 10.17\% | 6.31\% |
| 1994** | 1.19\% | 7.43\% |
| 1995** | 38.02\% | 6.92\% |
| 1996** | 23.06\% | 6.77\% |
| 1997** | 33.67\% | 6.65\% |
| 1998** | 28.73\% | 5.65\% |
| 1999** | 21.11\% | 6.04\% |
| 2000 | -9.11\% | 6.19\% |
| 2001 | -11.98\% | 5.60\% |
| 2002 | -22.27\% | 5.36\% |
| 2003 | 28.72\% | 4.80\% |
| 2004 | 10.82\% | 4.89\% |
| 2005 | 4.79\% | 4.57\% |
| 2006 | 15.74\% | 4.97\% |
| 2007 | 5.46\% | 4.87\% |
| 2008 | -37.22\% | 4.24\% |
| 2009 | 27.11\% | 3.97\% |
| 2010 | 14.87\% | 3.88\% |
| 2011 | 2.07\% | 3.52\% |
| 2012 | 15.88\% | 2.51\% |
| 2013 | 32.43\% | 3.10\% |
| 2014 | 13.81\% | 3.08\% |
| 2015 | 1.31\% | 2.63\% |
| 2016 | 11.93\% | 2.35\% |
| 2017 | 21.94\% | 2.75\% |
| 2018 | -4.41\% | 3.06\% |
| 2019 | 31.10\% | 2.49\% |
| Average = | 11.47\% | 4.95\% |
| $E R P=$ | 6.52\% |  |
| $\mathrm{R}_{\mathrm{f}}=$ | 2.5\% ${ }^{3}$ |  |
| $\beta=$ | 0.78 |  |
| CAPM = | 7.59\% |  |
| 1 Investopedia.com https://www.investopedia.com/ask/answers/042415/what-average-annual-return-sp-500.asp\#historical-sp-500-returns |  |  |
| ${ }^{2}$ U.S. Department of the Treasury https://www.treasury.gov/resource-center/data-chart-center/interest-rates/Pages/TextView.aspx?data=yield |  |  |
| ${ }^{3}$ Duff \& Phelps U.S. Recommended Normalized Risk-Free Rate (effective June 30, 2020) <br> * Annual composite average derived from daily closing yields of the 10-year and 30-year treasury bonds <br> ** Annual composite average derived from daily closing yields of the 20-year and 30-year treasury bonds |  |  |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR DCF Price, Dividend, and Growth Rate 

Work Paper Reference No(s):
Schedule D-1.4
Page 1 of 7

| Stock Prices ${ }^{1}$ (\$): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | NEE | AEP | ED | WEC | XEL |
| 9/3/2019 | 220.857651 | 89.888329 | 87.298714 | 95.083687 | 63.452259 |
| 9/4/2019 | 219.447647 | 90.149925 | 87.500977 | 95.005844 | 63.733063 |
| 9/5/2019 | 215.227524 | 88.677292 | 87.529861 | 92.748672 | 63.084312 |
| 9/6/2019 | 215.550629 | 88.251007 | 87.780281 | 90.608231 | 62.745403 |
| 9/9/2019 | 215.305847 | 88.531967 | 87.05793 | 88.020256 | 61.380112 |
| 9/10/2019 | 213.572739 | 88.251007 | 86.03701 | 87.854866 | 60.99279 |
| 9/11/2019 | 215.472305 | 88.832298 | 86.614883 | 88.798592 | 61.244553 |
| 9/12/2019 | 216.138138 | 89.152016 | 86.865303 | 89.071022 | 61.463818 |
| 9/13/2019 | 213.935043 | 88.686981 | 86.499306 | 88.691574 | 61.01553 |
| 9/16/2019 | 213.758789 | 88.851685 | 86.614883 | 88.837509 | 61.229931 |
| 9/17/2019 | 217.58728 | 89.83989 | 87.578018 | 90.28717 | 62.10701 |
| 9/18/2019 | 219.232239 | 90.12085 | 88.10775 | 90.627686 | 62.379883 |
| 9/19/2019 | 220.211395 | 90.275864 | 88.493004 | 90.948761 | 62.623512 |
| 9/20/2019 | 221.014313 | 90.275864 | 88.993835 | 91.162796 | 62.974354 |
| 9/23/2019 | 220.583496 | 90.489014 | 89.330933 | 91.415756 | 62.954853 |
| 9/24/2019 | 223.746124 | 91.641922 | 90.496323 | 92.427582 | 63.763718 |
| 9/25/2019 | 224.588211 | 91.293137 | 90.52523 | 92.76812 | 63.393394 |
| 9/26/2019 | 226.889221 | 91.351273 | 91.160889 | 93.303223 | 63.900158 |
| 9/27/2019 | 226.438797 | 91.264069 | 91.132004 | 92.301117 | 63.695503 |
| 9/30/2019 | 228.132767 | 90.769974 | 90.987534 | 92.524895 | 63.237476 |
| 10/1/2019 | 227.192764 | 90.314629 | 90.631165 | 92.612457 | 63.295929 |
| 10/2/2019 | 224.333633 | 89.258598 | 89.253883 | 91.756279 | 61.726944 |
| 10/3/2019 | 225.371536 | 89.617065 | 89.590981 | 92.242737 | 61.853634 |
| 10/4/2019 | 228.72023 | 90.692474 | 90.669693 | 93.478348 | 62.984085 |
| 10/7/2019 | 227.70192 | 90.789345 | 90.400024 | 92.641647 | 62.643002 |
| 10/8/2019 | 225.17572 | 89.675194 | 89.571724 | 91.620064 | 61.970577 |
| 10/9/2019 | 228.495041 | 89.985214 | 89.918449 | 92.320572 | 62.292168 |
| 10/10/2019 | 227.163361 | 89.723633 | 89.619881 | 92.57354 | 62.321411 |
| 10/11/2019 | 224.754654 | 89.462044 | 88.820465 | 91.269814 | 61.717197 |
| 10/14/2019 | 224.128006 | 89.161705 | 87.88623 | 90.209335 | 61.668468 |
| 10/15/2019 | 222.796341 | 88.880753 | 87.395027 | 89.674225 | 61.541782 |
| 10/16/2019 | 225.116959 | 89.713943 | 87.491333 | 90.248245 | 61.873123 |
| 10/17/2019 | 226.272339 | 90.101479 | 87.934387 | 90.38446 | 62.048531 |
| 10/18/2019 | 227.633377 | 91.205948 | 88.117378 | 90.442833 | 62.379883 |
| 10/21/2019 | 227.946701 | 91.535355 | 89.263512 | 90.744431 | 62.652748 |
| 10/22/2019 | 231.315018 | 91.21563 | 89.841393 | 90.763893 | 62.574783 |
| 10/23/2019 | 231.079987 | 91.496597 | 90.245911 | 90.627686 | 62.798935 |
| 10/24/2019 | 232.597687 | 92.736702 | 90.814163 | 91.464401 | 62.896385 |
| 10/25/2019 | 231.941635 | 91.409409 | 89.879921 | 91.250359 | 62.019302 |
| 10/28/2019 | 228.367722 | 90.459946 | 87.732124 | 90.024475 | 60.849861 |
| 10/29/2019 | 227.75087 | 90.266174 | 88.049957 | 89.936913 | 60.986301 |
| 10/30/2019 | 230.55127 | 91.167191 | 88.281113 | 91.250359 | 61.707451 |

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| Stock Prices ${ }^{1}$ (\$): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | NEE | AEP | ED | WEC | XEL |
| 10/31/2019 | 233.371216 | 91.448151 | 88.820465 | 91.843842 | 61.892612 |
| 11/1/2019 | 230.796036 | 90.64402 | 87.761024 | 90.997398 | 61.49305 |
| 11/4/2019 | 224.813431 | 89.907707 | 86.605255 | 89.158577 | 60.079983 |
| 11/5/2019 | 222.37532 | 88.551346 | 85.06424 | 88.535904 | 58.998249 |
| 11/6/2019 | 222.747421 | 89.113266 | 85.353188 | 88.740211 | 59.699913 |
| 11/7/2019 | 218.439117 | 87.219315 | 84.004784 | 86.463593 | 58.793598 |
| 11/8/2019 | 217.45018 | 86.955719 | 84.678978 | 85.451752 | 58.549969 |
| 11/11/2019 | 217.58728 | 86.662842 | 84.274467 | 84.780426 | 58.540218 |
| 11/12/2019 | 218.566422 | 86.399254 | 83.944199 | 84.819344 | 58.637672 |
| 11/13/2019 | 223.158646 | 87.726974 | 84.993263 | 86.0242 | 60.070236 |
| 11/14/2019 | 225.077774 | 87.473145 | 84.740707 | 86.318062 | 59.738899 |
| 11/15/2019 | 226.595459 | 87.434097 | 85.216682 | 86.269081 | 59.319843 |
| 11/18/2019 | 226.595459 | 88.010086 | 84.964119 | 86.151535 | 59.329594 |
| 11/19/2019 | 227.809631 | 88.517746 | 84.391022 | 86.32785 | 59.758385 |
| 11/20/2019 | 230.316238 | 89.288994 | 84.808708 | 86.396423 | 60.118961 |
| 11/21/2019 | 230.237915 | 88.908249 | 84.332741 | 86.523773 | 60.128708 |
| 11/22/2019 | 228.514618 | 89.367088 | 83.720795 | 86.719673 | 59.699913 |
| 11/25/2019 | 227.7117 | 88.732521 | 83.575089 | 86.29847 | 59.251629 |
| 11/26/2019 | 230.022507 | 89.328041 | 83.963631 | 87.20945 | 59.621952 |
| 11/27/2019 | 229.431885 | 89.415901 | 84.245331 | 87.287819 | 59.992275 |
| 11/29/2019 | 230.170166 | 89.181602 | 84.400742 | 86.837219 | 59.924061 |
| 12/2/2019 | 227.640274 | 88.137001 | 83.099136 | 85.779305 | 59.641445 |
| 12/3/2019 | 228.60498 | 88.722755 | 83.817932 | 86.464989 | 59.894817 |
| 12/4/2019 | 230.603287 | 89.845459 | 84.293884 | 87.268227 | 60.430809 |
| 12/5/2019 | 230.898621 | 90.265251 | 84.206474 | 87.620865 | 60.557503 |
| 12/6/2019 | 230.731277 | 90.196915 | 84.303604 | 87.248634 | 60.421066 |
| 12/9/2019 | 230.613144 | 89.679497 | 84.080193 | 86.954765 | 60.157944 |
| 12/10/2019 | 230.790329 | 89.757599 | 84.313316 | 87.36618 | 60.226154 |
| 12/11/2019 | 232.099564 | 89.962616 | 85.080681 | 87.699226 | 60.576996 |
| 12/12/2019 | 230.248917 | 88.976585 | 85.012688 | 86.964561 | 59.797367 |
| 12/13/2019 | 233.251312 | 89.86499 | 85.313805 | 87.356384 | 60.674442 |
| 12/16/2019 | 235.731979 | 90.821724 | 85.702347 | 88.776733 | 61.424835 |
| 12/17/2019 | 236.076523 | 91.007217 | 85.993759 | 89.227318 | 61.843884 |
| 12/18/2019 | 236.539169 | 91.524628 | 86.450294 | 89.785675 | 62.165482 |
| 12/19/2019 | 236.893539 | 91.739418 | 87.130226 | 90.295036 | 62.223957 |
| 12/20/2019 | 238.921402 | 92.647339 | 88.033592 | 90.95134 | 62.516315 |
| 12/23/2019 | 235.052734 | 91.524628 | 87.207947 | 89.60936 | 61.415092 |
| 12/24/2019 | 236.755722 | 91.612488 | 87.101097 | 89.746498 | 61.655396 |
| 12/26/2019 | 238.183105 | 91.651543 | 87.081673 | 89.873833 | 61.586739 |
| 12/27/2019 | 238.724518 | 91.954193 | 87.363365 | 90.422379 | 61.910412 |
| 12/30/2019 | 237.52356 | 91.797989 | 87.606201 | 90.28524 | 62.077152 |
| 12/31/2019 | 238.379974 | 92.266594 | 87.878181 | 90.344017 | 62.273323 |
| 1/2/2020 | 234.895248 | 91.241516 | 86.314293 | 88.815918 | 61.184597 |

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| Stock Prices ${ }^{1}$ (\$): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | NEE | AEP | ED | WEC | XEL |
| 1/3/2020 | 236.568695 | 91.143898 | 86.090881 | 89.37426 | 61.478848 |
| 1/6/2020 | 237.749985 | 91.446533 | 85.809196 | 89.442818 | 61.390568 |
| 1/7/2020 | 237.543259 | 91.466057 | 85.158394 | 89.099983 | 61.263062 |
| 1/8/2020 | 237.434967 | 91.192703 | 84.478447 | 89.217529 | 61.204208 |
| 1/9/2020 | 239.295471 | 91.651543 | 84.391022 | 90.108917 | 61.34153 |
| 1/10/2020 | 239.748291 | 92.100632 | 84.983543 | 90.647675 | 61.43961 |
| 1/13/2020 | 242.553787 | 92.383736 | 85.274948 | 91.734978 | 62.155621 |
| 1/14/2020 | 243.863037 | 92.725441 | 85.265244 | 92.028839 | 62.253708 |
| 1/15/2020 | 247.652954 | 94.306984 | 86.411438 | 93.214111 | 63.234539 |
| 1/16/2020 | 248.332184 | 95.00013 | 86.615417 | 94.203445 | 63.78381 |
| 1/17/2020 | 249.444519 | 96.220451 | 87.654762 | 94.448334 | 64.117302 |
| 1/21/2020 | 252.880066 | 96.981941 | 88.227867 | 95.672775 | 64.735222 |
| 1/22/2020 | 255.843063 | 97.626274 | 88.548416 | 96.221329 | 64.951012 |
| 1/23/2020 | 256.020264 | 98.57325 | 90.112289 | 96.681702 | 65.617973 |
| 1/24/2020 | 259.603455 | 99.735008 | 90.92823 | 96.936401 | 65.88279 |
| 1/27/2020 | 262.576294 | 99.364021 | 90.733955 | 96.485802 | 65.637589 |
| 1/28/2020 | 261.660797 | 99.764297 | 91.481895 | 96.485802 | 65.931847 |
| 1/29/2020 | 261.611603 | 100.369568 | 91.734444 | 96.671921 | 66.128014 |
| 1/30/2020 | 265.716522 | 101.628952 | 92.025848 | 98.552658 | 67.442337 |
| 1/31/2020 | 264.013519 | 101.746109 | 91.307045 | 97.847374 | 67.86409 |
| 2/3/2020 | 262.645203 | 101.746109 | 91.161346 | 98.826927 | 68.119102 |
| 2/4/2020 | 260.410645 | 100.428146 | 89.888878 | 97.602493 | 67.971985 |
| 2/5/2020 | 262.546753 | 99.695946 | 90.724243 | 97.96492 | 67.971985 |
| 2/6/2020 | 264.141449 | 99.822868 | 90.792229 | 97.85717 | 67.971985 |
| 2/7/2020 | 265.332581 | 99.616432 | 90.121994 | 97.710243 | 67.393295 |
| 2/10/2020 | 267.49823 | 100.186569 | 90.413406 | 98.09227 | 67.736572 |
| 2/11/2020 | 267.901855 | 100.481476 | 90.510536 | 98.141251 | 67.638496 |
| 2/12/2020 | 266.041382 | 100.058784 | 90.209427 | 98.689796 | 67.707153 |
| 2/13/2020 | 271.170013 | 101.100754 | 90.957359 | 99.767204 | 68.482018 |
| 2/14/2020 | 274.172424 | 101.995285 | 91.598457 | 100.417809 | 68.913582 |
| 2/18/2020 | 277.637512 | 102.555588 | 92.396576 | 101.413406 | 69.796349 |
| 2/19/2020 | 270.382538 | 101.7397 | 91.93631 | 100.950104 | 69.433426 |
| 2/20/2020 | 272.705688 | 100.638748 | 92.621819 | 100.930389 | 69.315735 |
| 2/21/2020 | 273.256927 | 99.980148 | 88.31292 | 101.038818 | 69.462852 |
| 2/24/2020 | 269.66391 | 98.338554 | 87.049629 | 100.368515 | 69.021477 |
| 2/25/2020 | 266.110229 | 96.500351 | 86.422874 | 98.978622 | 67.520798 |
| 2/26/2020 | 265.263702 | 95.772942 | 85.874474 | 98.860329 | 67.040184 |
| 2/27/2020 | 253.171616 | 90.297668 | 81.467644 | 94.197754 | 63.607254 |
| 2/28/2020 | 250.113953 | 87.74189 | 77.188118 | 91.013802 | 61.125744 |
| 3/2/2020 | 265.540771 | 93.472733 | 82.779892 | 96.297394 | 64.607712 |
| 3/3/2020 | 262.374237 | 93.826614 | 82.104179 | 96.188965 | 64.450775 |
| 3/4/2020 | 279.265564 | 98.122292 | 86.187851 | 102.724442 | 67.873901 |
| 3/5/2020 | 273.269012 | 97.10981 | 85.766747 | 102.62587 | 67.922943 |

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| Stock Prices ${ }^{1}$ (\$): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | NEE | AEP | ED | WEC | XEL |
| 3/6/2020 | 268.974426 | 96.038338 | 86.080124 | 103.227173 | 68.805695 |
| 3/9/2020 | 258.544769 | 93.34494 | 86.824394 | 100.910675 | 66.68708 |
| 3/10/2020 | 253.052872 | 93.109032 | 87.549072 | 100.595238 | 67.177505 |
| 3/11/2020 | 238.734344 | 88.194069 | 84.709114 | 96.060806 | 65.539513 |
| 3/12/2020 | 206.703217 | 81.136177 | 82.055214 | 90.333633 | 60.504845 |
| 3/13/2020 | 219.240585 | 84.999344 | 86.246605 | 98.002724 | 65.983742 |
| 3/16/2020 | 199.261932 | 80.271149 | 77.903008 | 91.35881 | 57.612381 |
| 3/17/2020 | 219.438477 | 89.648888 | 91.93631 | 100.99939 | 64.098213 |
| 3/18/2020 | 208.434891 | 86.778557 | 90.2911 | 103.039879 | 60.583817 |
| 3/19/2020 | 204.931961 | 79.435608 | 78.431816 | 89.121178 | 57.24712 |
| 3/20/2020 | 189.742645 | 70.234795 | 71.087097 | 73.033813 | 49.981403 |
| 3/23/2020 | 179.75827 | 68.809464 | 63.996998 | 69.879433 | 49.359474 |
| 3/24/2020 | 204.36792 | 70.824593 | 69.050171 | 79.066574 | 53.35759 |
| 3/25/2020 | 208.068787 | 72.04351 | 69.461472 | 79.58902 | 54.838375 |
| 3/26/2020 | 228.68071 | 80.408775 | 74.348152 | 85.533058 | 57.168144 |
| 3/27/2020 | 229.521805 | 81.98156 | 76.287163 | 87.80027 | 58.017124 |
| 3/30/2020 | 243.434616 | 82.286285 | 79.058578 | 90.58007 | 61.758575 |
| 3/31/2020 | 238.101044 | 78.619728 | 76.385094 | 86.873672 | 59.527527 |
| 4/1/2020 | 215.945435 | 73.301735 | 76.003166 | 82.329384 | 57.335968 |
| 4/2/2020 | 224.079391 | 75.483978 | 77.295837 | 86.755386 | 59.645985 |
| 4/3/2020 | 219.319733 | 71.266945 | 76.287163 | 84.034729 | 57.118786 |
| 4/6/2020 | 232.055008 | 77.253365 | 79.371948 | 89.97876 | 60.366638 |
| 4/7/2020 | 226.098038 | 77.410645 | 78.265335 | 86.508949 | 58.47123 |
| 4/8/2020 | 231.055588 | 81.883263 | 82.094383 | 90.885651 | 61.995499 |
| 4/9/2020 | 242.712265 | 84.842064 | 86.119293 | 96.819832 | 65.421043 |
| 4/13/2020 | 233.737213 | 82.079857 | 83.083473 | 93.665443 | 62.844482 |
| 4/14/2020 | 239.842621 | 84.783081 | 87.451134 | 97.914017 | 65.401299 |
| 4/15/2020 | 234.736649 | 82.187981 | 85.16938 | 95.508797 | 63.476288 |
| 4/16/2020 | 234.993912 | 82.620506 | 86.579567 | 97.549286 | 64.414116 |
| 4/17/2020 | 243.681992 | 84.910866 | 87.70575 | 98.909615 | 66.28978 |
| 4/20/2020 | 235.122559 | 81.499893 | 83.700439 | 94.513191 | 63.525642 |
| 4/21/2020 | 232.95549 | 81.067375 | 81.761429 | 93.783745 | 62.597687 |
| 4/22/2020 | 244.582474 | 83.554344 | 82.378387 | 95.025787 | 64.483223 |
| 4/23/2020 | 238.615601 | 81.608017 | 80.08683 | 93.044434 | 63.555256 |
| 4/24/2020 | 237.190674 | 81.814453 | 80.929024 | 92.433266 | 63.742821 |
| 4/27/2020 | 241.049866 | 82.197823 | 80.958405 | 90.215347 | 64.631294 |
| 4/28/2020 | 236.794876 | 83.190628 | 81.379501 | 93.379585 | 65.322327 |
| 4/29/2020 | 232.668518 | 81.716141 | 79.597183 | 91.979828 | 64.246292 |
| 4/30/2020 | 228.7005 | 81.696487 | 77.168533 | 89.259178 | 62.745766 |
| 5/1/2020 | 224.673111 | 80.005737 | 75.65062 | 87.198967 | 61.383442 |
| 5/4/2020 | 227.68129 | 81.637512 | 75.464546 | 87.691841 | 61.590752 |
| 5/5/2020 | 227.691177 | 81.893082 | 75.934616 | 88.303001 | 62.469349 |
| 5/6/2020 | 220.329071 | 77.479446 | 72.840042 | 83.729149 | 60.435741 |

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| Stock Prices ${ }^{1}$ (\$): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | NEE | AEP | ED | WEC | XEL |
| 5/7/2020 | 222.13002 | 77.955513 | 72.536453 | 83.916435 | 59.191879 |
| 5/8/2020 | 227.325043 | 79.205185 | 72.64418 | 84.458595 | 59.537399 |
| 5/11/2020 | 224.999664 | 78.520836 | 71.136063 | 84.103729 | 59.359703 |
| 5/12/2020 | 225.543884 | 77.271172 | 70.853989 | 83.798149 | 58.036873 |
| 5/13/2020 | 227.710968 | 77.092651 | 70.725327 | 84.17852 | 57.316223 |
| 5/14/2020 | 229.798874 | 77.45961 | 70.903481 | 84.12886 | 57.454426 |
| 5/15/2020 | 225.464737 | 77.786911 | 69.636642 | 84.218246 | 57.148399 |
| 5/18/2020 | 232.985168 | 79.225014 | 72.358368 | 87.018906 | 59.359703 |
| 5/19/2020 | 228.08699 | 76.507484 | 70.151291 | 86.095284 | 58.935215 |
| 5/20/2020 | 230.353012 | 77.11248 | 70.012733 | 86.701096 | 59.478168 |
| 5/21/2020 | 226.503738 | 76.735603 | 69.201164 | 86.08535 | 59.379448 |
| 5/22/2020 | 231.401917 | 78.134033 | 69.458488 | 85.549049 | 59.596626 |
| 5/26/2020 | 231.857101 | 79.264687 | 70.458107 | 85.102142 | 60.277794 |
| 5/27/2020 | 238.605713 | 80.772232 | 70.517487 | 85.310699 | 60.939205 |
| 5/28/2020 | 248.728622 | 84.402214 | 72.397957 | 88.359642 | 63.190002 |
| 5/29/2020 | 252.884644 | 84.550987 | 74.288315 | 91.100708 | 64.19693 |
| 6/1/2020 | 254.367157 | 85.433685 | 74.298218 | 92.491096 | 64.907715 |
| 6/2/2020 | 255.312408 | 85.275002 | 74.050789 | 93.32534 | 65.22361 |
| 6/3/2020 | 258.277435 | 86.276718 | 74.892044 | 93.315407 | 65.964005 |
| 6/4/2020 | 250.626038 | 83.707954 | 74.060684 | 91.934937 | 64.19693 |
| 6/5/2020 | 253.103546 | 84.808853 | 74.555542 | 92.21302 | 64.423988 |
| 6/8/2020 | 259.172943 | 87.189178 | 76.911072 | 94.62635 | 66.092331 |
| 6/9/2020 | 257.372009 | 85.205582 | 75.911453 | 92.798973 | 65.519768 |
| 6/10/2020 | 255.50145 | 84.670006 | 76.158882 | 93.067116 | 66.072594 |
| 6/11/2020 | 247.083893 | 81.089607 | 73.902328 | 90.703445 | 64.246292 |
| 6/12/2020 | 245.671021 | 81.12928 | 74.605026 | 89.690445 | 63.252537 |
| 6/15/2020 | 247.322693 | 81.089607 | 74.822769 | 89.84935 | 63.113407 |
| 6/16/2020 | 246.924698 | 80.930916 | 75.584854 | 90.196945 | 63.341976 |
| 6/17/2020 | 247.750534 | 81.575584 | 74.515953 | 89.79969 | 63.491035 |
| 6/18/2020 | 247.680878 | 81.099518 | 74.100273 | 89.24353 | 64.10717 |
| 6/19/2020 | 240.994614 | 79.056412 | 70.705536 | 87.465813 | 63.610291 |
| 6/22/2020 | 245.800369 | 79.958954 | 70.685738 | 87.247322 | 64.743172 |
| 6/23/2020 | 241.989594 | 80.28624 | 70.210678 | 86.492531 | 63.789165 |
| 6/24/2020 | 240.457306 | 80.04821 | 70.794609 | 86.194595 | 63.282349 |
| 6/25/2020 | 237.959915 | 78.64978 | 69.893967 | 84.625435 | 62.507221 |
| 6/26/2020 | 235.034668 | 77.360435 | 70.54718 | 84.953171 | 61.920902 |
| 6/29/2020 | 237.044525 | 78.917557 | 71.952576 | 86.37336 | 62.069965 |
| 6/30/2020 | 238.964844 | 78.986984 | 71.190498 | 87.048698 | 62.109715 |
| 7/1/2020 | 245.024277 | 81.327637 | 72.348465 | 88.717171 | 63.789165 |
| 7/2/2020 | 245.163574 | 81.843369 | 73.05117 | 89.551407 | 63.699722 |
| 7/6/2020 | 245.720779 | 81.446655 | 72.348465 | 89.322983 | 63.182976 |
| 7/7/2020 | 245.481979 | 81.714439 | 71.754639 | 88.091484 | 63.202847 |
| 7/8/2020 | 251.999115 | 81.744186 | 71.685356 | 88.13121 | 63.371788 |

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| Stock Prices ${ }^{\text {¹ }}$ (\$): |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | NEE | AEP | ED | WEC | XEL |
| 7/9/2020 | 250.72554 | 81.347466 | 70.972763 | 86.869926 | 62.845097 |
| 7/10/2020 | 258.297363 | 83.460007 | 71.734848 | 87.445953 | 63.371788 |
| 7/13/2020 | 254.954193 | 84.06501 | 71.418137 | 87.118217 | 63.769287 |
| 7/14/2020 | 261.232544 | 84.650162 | 71.428032 | 87.495605 | 64.236351 |
| 7/15/2020 | 257.700348 | 83.985657 | 70.774818 | 86.859993 | 63.799099 |
| 7/16/2020 | 267.033295 | 84.392296 | 71.101418 | 87.157944 | 64.584167 |
| 7/17/2020 | 273.998169 | 86.792458 | 73.308495 | 89.908936 | 65.975426 |
| 7/20/2020 | 272.95343 | 86.008934 | 72.506828 | 89.521614 | 65.53817 |
| 7/21/2020 | 274.94339 | 86.842041 | 73.516335 | 90.514748 | 65.806488 |
| 7/22/2020 | 279.012878 | 88.547943 | 74.981125 | 92.818832 | 67.952995 |
| 7/23/2020 | 279.56012 | 87.982613 | 75.466087 | 93.146568 | 67.843681 |
| 7/24/2020 | 278.843719 | 87.328033 | 74.802979 | 92.947937 | 67.456116 |
| 7/27/2020 | 276.236877 | 82.577309 | 73.991409 | 92.699654 | 67.088432 |
| 7/28/2020 | 278.634796 | 84.045166 | 75.574959 | 93.931152 | 67.943062 |
| 7/29/2020 | 280.02774 | 84.104683 | 75.911453 | 94.318474 | 68.300819 |
| 7/30/2020 | 280.923218 | 85.364265 | 76.148994 | 94.536972 | 68.56913 |
| 7/31/2020 | 279.291473 | 86.167618 | 76.040123 | 94.606491 | 68.608879 |
| 8/3/2020 | 276.197083 | 85.066719 | 75.129585 | 92.997597 | 68.330627 |
| 8/4/2020 | 283.619629 | 84.838608 | 75.119682 | 94.45752 | 69.493317 |
| 8/5/2020 | 282.356018 | 84.13443 | 72.902718 | 92.669861 | 69.354195 |
| 8/6/2020 | 281.390869 | 84.670006 | 73.160034 | 92.352058 | 69.662254 |
| 8/7/2020 | 286.335938 | 86.599998 | 74.337807 | 93.722595 | 71.888268 |
| 8/10/2020 | 282.216736 | 85.940002 | 74.605026 | 93.086983 | 71.997581 |
| 8/11/2020 | 276.396088 | 83.290001 | 72.506828 | 90.276398 | 70.079628 |
| 8/12/2020 | 283.161957 | 84.150002 | 73.496544 | 91.636993 | 71.033646 |
| 8/13/2020 | 282.9729 | 83.660004 | 73.011581 | 91.440002 | 70.834885 |
| 8/14/2020 | 279.092468 | 82.949997 | 72.774048 | 91.209999 | 70.28833 |
| 8/17/2020 | 281.569977 | 81.230003 | 73.645004 | 92.120003 | 69.761627 |
| 8/18/2020 | 281.629669 | 81.550003 | 73.349998 | 91.919998 | 69.562881 |
| 8/19/2020 | 280.923218 | 80.919998 | 73.440002 | 91.720001 | 69.145508 |
| 8/20/2020 | 280.694366 | 79.410004 | 72.400002 | 91.290001 | 68.579063 |
| 8/21/2020 | 280.992889 | 79.080002 | 72.199997 | 91.989998 | 69.175316 |
| 8/24/2020 | 281.211792 | 80.779999 | 74.32 | 92.239998 | 69.970329 |
| 8/25/2020 | 279.898407 | 79.769997 | 73.010002 | 92.279999 | 68.539314 |
| 8/26/2020 | 277.600006 | 78.610001 | 70.779999 | 92.040001 | 67.704559 |
| 8/27/2020 | 278.880005 | 78.370003 | 71.07 | 92.349998 | 68.201431 |
| 8/28/2020 | 279.549988 | 78.349998 | 70.919998 | 93.620003 | 68.221313 |

## OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR DCF Price, Dividend, and Growth Rate

| Work Paper Reference No (s): |  |  |  |  | Schedule D-1.4 Page 7 of 7$63.27$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Average Stock Price: | 242.37 | 87.16 | 81.48 | 90.98 |  |
| QUARTERLY DIV. ${ }^{2}$ (\$) | 1.25000 | 0.7000 | 0.74000 | 0.59000 | 0.40500 |
|  | 1.25000 | 0.7000 | 0.74000 | 0.63250 | 0.40500 |
|  | 1.40000 | 0.7000 | 0.76500 | 0.63250 | 0.43000 |
|  | 1.40000 | 0.7000 | 0.76500 | 0.63250 | 0.43000 |
| ANNUAL DIVIDEND (\$) | 5.3000 | 2.8000 | 3.0100 | 2.4875 | 1.6700 |
| YIELD | 2.19\% | 3.21\% | 3.69\% | 2.73\% | 2.64\% |
| REUTERS ${ }^{(3)}$ | 7.25\% | 3.63\% | 1.88\% | 6.73\% | 5.43\% |
| YAHOO FINANCE ${ }^{(1)}$ | 8.07\% | 5.63\% | 2.55\% | 5.91\% | 6.10\% |
| DCF GROWTH FACTOR | 7.66\% | 4.63\% | 2.22\% | 6.32\% | 5.77\% |
| Value line ${ }^{2}$ |  |  |  |  |  |
| 21 EARNINGS (EPS) | 9.75 | 4.65 | 4.50 | 3.95 | 2.90 |
| 23-25 EARNINGS (EPS) | 12.25 | 5.5 | 5.00 | 4.75 | 3.50 |
|  | 5.71\% | 4.20\% | 2.63\% | 4.61\% | 4.70\% |
| VALUE LINE "BOXED" (Earnings) ${ }^{2}$ | 10.00\% | 6.00\% | 3.00\% | 6.00\% | 6.00\% |
| VALUE LINE AVERAGE | 7.85\% | 5.10\% | 2.82\% | 5.31\% | 5.35\% |
| DCF GROWTH ESTIMATE | 7.76\% | 4.86\% | 2.52\% | 5.81\% | 5.56\% |
| DCF COST OF EQUITY ESTIMATE | 9.06\% | 9.23\% | 8.88\% | 9.07\% | 8.90\% |
| DCF AVERAGE | 9.03\% |  |  |  |  |

## Sources:

${ }^{1}$ Yahoo Finance
${ }^{2}$ Value Line Investment Guide
${ }^{3}$ Reuters.com

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> NEE Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 242.37 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$ .30$ |  |
| DCF Growth Estimate $=$ | $7.76 \%$ |  |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.06 \%$ |  |
| Constant DCF $=$ |  | $10.11 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 1 | 7.76\% | \$5.71 |
| 2 | 7.76\% | \$6.15 |
| 3 | 7.76\% | \$6.63 |
| 4 | 7.76\% | \$7.15 |
| 5 | 7.76\% | \$7.70 |
| 6 | 7.69\% | \$8.29 |
| 7 | 7.61\% | \$8.92 |
| 8 | 7.54\% | \$9.60 |
| 9 | 7.47\% | \$10.31 |
| 10 | 7.40\% | \$11.08 |
| 11 | 7.33\% | \$11.89 |
| 12 | 7.26\% | \$12.75 |
| 13 | 7.18\% | \$13.67 |
| 14 | 7.11\% | \$14.64 |
| 15 | 7.04\% | \$15.67 |
| 16 | 6.97\% | \$16.76 |
| 17 | 6.90\% | \$17.92 |
| 18 | 6.83\% | \$19.14 |
| 19 | 6.75\% | \$20.43 |
| 20 | 6.68\% | \$21.80 |
| 21 | 6.61\% | \$23.24 |
| 22 | 6.54\% | \$24.76 |
| 23 | 6.47\% | \$26.36 |
| 24 | 6.40\% | \$28.05 |
| 25 | 6.32\% | \$29.82 |
| 26 | 6.32\% | \$31.70 |
| 27 | 6.32\% | \$33.71 |
| 28 | 6.32\% | \$35.84 |
| 29 | 6.32\% | \$38.11 |
| 30 | 6.32\% | \$40.52 |
| 31 | 6.32\% | \$43.08 |
| 32 | 6.32\% | \$45.81 |
| 33 | 6.32\% | \$48.70 |
| 34 | 6.32\% | \$51.78 |
| 35 | 6.32\% | \$55.06 |
| 36 | 6.32\% | \$58.54 |
| 37 | 6.32\% | \$62.24 |
| 38 | 6.32\% | \$66.18 |
| 39 | 6.32\% | \$70.37 |
| 40 | 6.32\% | \$74.82 |
| 41 | 6.32\% | \$79.55 |
| 42 | 6.32\% | \$84.58 |
| 43 | 6.32\% | \$89.93 |
| 44 | 6.32\% | \$95.62 |
| 45 | 6.32\% | \$101.66 |
| 46 | 6.32\% | \$108.09 |
| 47 | 6.32\% | \$114.93 |
| 48 | 6.32\% | \$122.20 |
| 49 | 6.32\% | \$129.93 |
| 50 | 6.32\% | \$138.14 |
| 51 | 6.32\% | \$146.88 |
| 52 | 6.32\% | \$156.17 |
| 53 | 6.32\% | \$166.05 |
| 54 | 6.32\% | \$176.55 |
| 55 | 6.32\% | \$187.71 |
| 56 | 6.32\% | \$199.58 |
| 57 | 6.32\% | \$212.21 |
| 58 | 6.32\% | \$225.63 |
| 59 | 6.32\% | \$239.90 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> <br> NEE Non-Constant DCF Calculation 

 <br> <br> NEE Non-Constant DCF Calculation}

| Stock Price $=$ | $\$$ | 242.37 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$$ | 5.30 |
| DCF Growth Estimate $=$ |  | $7.76 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ |  | $9.06 \%$ |
| Constant DCF $=$ |  | $10.11 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 60 | 6.32\% | \$255.07 |
| 61 | 6.32\% | \$271.20 |
| 62 | 6.32\% | \$288.35 |
| 63 | 6.32\% | \$306.59 |
| 64 | 6.32\% | \$325.98 |
| 65 | 6.32\% | \$346.60 |
| 66 | 6.32\% | \$368.52 |
| 67 | 6.32\% | \$391.83 |
| 68 | 6.32\% | \$416.61 |
| 69 | 6.32\% | \$442.96 |
| 70 | 6.32\% | \$470.97 |
| 71 | 6.32\% | \$500.76 |
| 72 | 6.32\% | \$532.43 |
| 73 | 6.32\% | \$566.10 |
| 74 | 6.32\% | \$601.90 |
| 75 | 6.32\% | \$639.97 |
| 76 | 6.32\% | \$680.45 |
| 77 | 6.32\% | \$723.48 |
| 78 | 6.32\% | \$769.24 |
| 79 | 6.32\% | \$817.89 |
| 80 | 6.32\% | \$869.62 |
| 81 | 6.32\% | \$924.61 |
| 82 | 6.32\% | \$983.09 |
| 83 | 6.32\% | \$1,045.27 |
| 84 | 6.32\% | \$1,111.38 |
| 85 | 6.32\% | \$1,181.66 |
| 86 | 6.32\% | \$1,256.40 |
| 87 | 6.32\% | \$1,335.86 |
| 88 | 6.32\% | \$1,420.35 |
| 89 | 6.32\% | \$1,510.18 |
| 90 | 6.32\% | \$1,605.69 |
| 91 | 6.32\% | \$1,707.24 |
| 92 | 6.32\% | \$1,815.21 |
| 93 | 6.32\% | \$1,930.02 |
| 94 | 6.32\% | \$2,052.08 |
| 95 | 6.32\% | \$2,181.86 |
| 96 | 6.32\% | \$2,319.86 |
| 97 | 6.32\% | \$2,466.58 |
| 98 | 6.32\% | \$2,622.58 |
| 99 | 6.32\% | \$2,788.44 |
| 100 | 6.32\% | \$2,964.79 |
| 101 | 6.32\% | \$3,152.30 |
| 102 | 6.32\% | \$3,351.67 |
| 103 | 6.32\% | \$3,563.65 |
| 104 | 6.32\% | \$3,789.03 |
| 105 | 6.32\% | \$4,028.67 |
| 106 | 6.32\% | \$4,283.46 |
| 107 | 6.32\% | \$4,554.37 |
| 108 | 6.32\% | \$4,842.41 |
| 109 | 6.32\% | \$5,148.67 |
| 110 | 6.32\% | \$5,474.30 |
| 111 | 6.32\% | \$5,820.52 |
| 112 | 6.32\% | \$6,188.64 |
| 113 | 6.32\% | \$6,580.04 |
| 114 | 6.32\% | \$6,996.19 |
| 115 | 6.32\% | \$7,438.67 |
| 116 | 6.32\% | \$7,909.12 |
| 117 | 6.32\% | \$8,409.34 |
| 118 | 6.32\% | \$8,941.19 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## NEE Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 242.37 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$$ | 5.30 |
| DCF Growth Estimate $=$ |  | $7.76 \%$ |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ |  | $9.06 \%$ |
| Constant DCF $=$ |  | $10.11 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 119 | 6.32\% | \$9,506.67 |
| 120 | 6.32\% | \$10,107.92 |
| 121 | 6.32\% | \$10,747.20 |
| 122 | 6.32\% | \$11,426.90 |
| 123 | 6.32\% | \$12,149.60 |
| 124 | 6.32\% | \$12,918.00 |
| 125 | 6.32\% | \$13,735.00 |
| 126 | 6.32\% | \$14,603.67 |
| 127 | 6.32\% | \$15,527.28 |
| 128 | 6.32\% | \$16,509.30 |
| 129 | 6.32\% | \$17,553.43 |
| 130 | 6.32\% | \$18,663.60 |
| 131 | 6.32\% | \$19,843.98 |
| 132 | 6.32\% | \$21,099.02 |
| 133 | 6.32\% | \$22,433.42 |
| 134 | 6.32\% | \$23,852.23 |
| 135 | 6.32\% | \$25,360.76 |
| 136 | 6.32\% | \$26,964.70 |
| 137 | 6.32\% | \$28,670.09 |
| 138 | 6.32\% | \$30,483.33 |
| 139 | 6.32\% | \$32,411.24 |
| 140 | 6.32\% | \$34,461.09 |
| 141 | 6.32\% | \$36,640.59 |
| 142 | 6.32\% | \$38,957.92 |
| 143 | 6.32\% | \$41,421.82 |
| 144 | 6.32\% | \$44,041.54 |
| 145 | 6.32\% | \$46,826.95 |
| 146 | 6.32\% | \$49,788.52 |
| 147 | 6.32\% | \$52,937.40 |
| 148 | 6.32\% | \$56,285.43 |
| 149 | 6.32\% | \$59,845.20 |
| 150 | 6.32\% | \$63,630.11 |
| 151 | 6.32\% | \$67,654.40 |
| 152 | 6.32\% | \$71,933.20 |
| 153 | 6.32\% | \$76,482.62 |
| 154 | 6.32\% | \$81,319.76 |
| 155 | 6.32\% | \$86,462.84 |
| 156 | 6.32\% | \$91,931.18 |
| 157 | 6.32\% | \$97,745.37 |
| 158 | 6.32\% | \$103,927.28 |
| 159 | 6.32\% | \$110,500.16 |
| 160 | 6.32\% | \$117,488.75 |
| 161 | 6.32\% | \$124,919.33 |
| 162 | 6.32\% | \$132,819.85 |
| 163 | 6.32\% | \$141,220.05 |
| 164 | 6.32\% | \$150,151.51 |
| 165 | 6.32\% | \$159,647.85 |
| 166 | 6.32\% | \$169,744.78 |
| 167 | 6.32\% | \$180,480.30 |
| 168 | 6.32\% | \$191,894.78 |
| 169 | 6.32\% | \$204,031.17 |
| 170 | 6.32\% | \$216,935.13 |
| 171 | 6.32\% | \$230,655.19 |
| 172 | 6.32\% | \$245,242.99 |
| 173 | 6.32\% | \$260,753.39 |
| 174 | 6.32\% | \$277,244.74 |
| 175 | 6.32\% | \$294,779.09 |
| 176 | 6.32\% | \$313,422.41 |
| 177 | 6.32\% | \$333,244.82 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## NEE Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 242.37 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$ .30$ |  |
| DCF Growth Estimate $=$ | $7.76 \%$ |  |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ |  | $9.06 \%$ |
| Constant DCF $=$ |  | $10.11 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 178 | 6.32\% | \$354,320.89 |
| 179 | 6.32\% | \$376,729.93 |
| 180 | 6.32\% | \$400,556.22 |
| 181 | 6.32\% | \$425,889.41 |
| 182 | 6.32\% | \$452,824.80 |
| 183 | 6.32\% | \$481,463.72 |
| 184 | 6.32\% | \$511,913.90 |
| 185 | 6.32\% | \$544,289.91 |
| 186 | 6.32\% | \$578,713.54 |
| 187 | 6.32\% | \$615,314.30 |
| 188 | 6.32\% | \$654,229.86 |
| 189 | 6.32\% | \$695,606.65 |
| 190 | 6.32\% | \$739,600.31 |
| 191 | 6.32\% | \$786,376.35 |
| 192 | 6.32\% | \$836,110.75 |
| 193 | 6.32\% | \$888,990.60 |
| 194 | 6.32\% | \$945,214.83 |
| 195 | 6.32\% | \$1,004,994.97 |
| 196 | 6.32\% | \$1,068,555.90 |
| 197 | 6.32\% | \$1,136,136.75 |
| 198 | 6.32\% | \$1,207,991.75 |
| 199 | 6.32\% | \$1,284,391.22 |
| 200 | 6.32\% | \$1,365,622.58 |
| 201 | 6.32\% | \$1,451,991.42 |
| 202 | 6.32\% | \$1,543,822.66 |
| 203 | 6.32\% | \$1,641,461.76 |
| 204 | 6.32\% | \$1,745,276.06 |
| 205 | 6.32\% | \$1,855,656.09 |
| 206 | 6.32\% | \$1,973,017.11 |
| 207 | 6.32\% | \$2,097,800.63 |
| 208 | 6.32\% | \$2,230,476.09 |
| 209 | 6.32\% | \$2,371,542.61 |
| 210 | 6.32\% | \$2,521,530.89 |
| 211 | 6.32\% | \$2,681,005.18 |
| 212 | 6.32\% | \$2,850,565.43 |
| 213 | 6.32\% | \$3,030,849.52 |
| 214 | 6.32\% | \$3,222,535.68 |
| 215 | 6.32\% | \$3,426,345.04 |
| 216 | 6.32\% | \$3,643,044.33 |
| 217 | 6.32\% | \$3,873,448.77 |
| 218 | 6.32\% | \$4,118,425.14 |
| 219 | 6.32\% | \$4,378,895.05 |
| 220 | 6.32\% | \$4,655,838.39 |
| 221 | 6.32\% | \$4,950,297.02 |
| 222 | 6.32\% | \$5,263,378.69 |
| 223 | 6.32\% | \$5,596,261.22 |
| 224 | 6.32\% | \$5,950,196.92 |
| 225 | 6.32\% | \$6,326,517.28 |
| 226 | 6.32\% | \$6,726,638.05 |
| 227 | 6.32\% | \$7,152,064.45 |
| 228 | 6.32\% | \$7,604,396.97 |
| 229 | 6.32\% | \$8,085,337.26 |
| 230 | 6.32\% | \$8,596,694.64 |
| 231 | 6.32\% | \$9,140,392.83 |
| 232 | 6.32\% | \$9,718,477.23 |
| 233 | 6.32\% | \$10,333,122.59 |
| 234 | 6.32\% | \$10,986,641.22 |
| 235 | 6.32\% | \$11,681,491.64 |
| 236 | 6.32\% | \$12,420,287.90 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## NEE Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 242.37 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$ .30$ |  |
| DCF Growth Estimate $=$ | $7.76 \%$ |  |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ |  | $9.06 \%$ |
| Constant DCF $=$ |  | $10.11 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 237 | 6.32\% | \$13,205,809.36 |
| 238 | 6.32\% | \$14,041,011.13 |
| 239 | 6.32\% | \$14,929,035.27 |
| 240 | 6.32\% | \$15,873,222.52 |
| 241 | 6.32\% | \$16,877,124.92 |
| 242 | 6.32\% | \$17,944,519.15 |
| 243 | 6.32\% | \$19,079,420.76 |
| 244 | 6.32\% | \$20,286,099.25 |
| 245 | 6.32\% | \$21,569,094.16 |
| 246 | 6.32\% | \$22,933,232.11 |
| 247 | 6.32\% | \$24,383,645.01 |
| 248 | 6.32\% | \$25,925,789.31 |
| 249 | 6.32\% | \$27,565,466.58 |
| 250 | 6.32\% | \$29,308,845.27 |
| 251 | 6.32\% | \$31,162,484.00 |
| 252 | 6.32\% | \$33,133,356.16 |
| 253 | 6.32\% | \$35,228,876.19 |
| 254 | 6.32\% | \$37,456,927.44 |
| 255 | 6.32\% | \$39,825,891.85 |
| 256 | 6.32\% | \$42,344,681.48 |
| 257 | 6.32\% | \$45,022,772.03 |
| 258 | 6.32\% | \$47,870,238.49 |
| 259 | 6.32\% | \$50,897,793.04 |
| 260 | 6.32\% | \$54,116,825.37 |
| 261 | 6.32\% | \$57,539,445.49 |
| 262 | 6.32\% | \$61,178,529.31 |
| 263 | 6.32\% | \$65,047,767.08 |
| 264 | 6.32\% | \$69,161,714.91 |
| 265 | 6.32\% | \$73,535,849.48 |
| 266 | 6.32\% | \$78,186,626.31 |
| 267 | 6.32\% | \$83,131,541.65 |
| 268 | 6.32\% | \$88,389,198.30 |
| 269 | 6.32\% | \$93,979,375.59 |
| 270 | 6.32\% | \$99,923,103.79 |
| 271 | 6.32\% | \$106,242,743.25 |
| 272 | 6.32\% | \$112,962,068.49 |
| 273 | 6.32\% | \$120,106,357.63 |
| 274 | 6.32\% | \$127,702,487.53 |
| 275 | 6.32\% | \$135,779,034.89 |
| 276 | 6.32\% | \$144,366,383.70 |
| 277 | 6.32\% | \$153,496,839.63 |
| 278 | 6.32\% | \$163,204,751.49 |
| 279 | 6.32\% | \$173,526,640.51 |
| 280 | 6.32\% | \$184,501,337.68 |
| 281 | 6.32\% | \$196,170,129.88 |
| 282 | 6.32\% | \$208,576,915.16 |
| 283 | 6.32\% | \$221,768,367.92 |
| 284 | 6.32\% | \$235,794,114.48 |
| 285 | 6.32\% | \$250,706,919.77 |
| 286 | 6.32\% | \$266,562,885.83 |
| 287 | 6.32\% | \$283,421,662.91 |
| 288 | 6.32\% | \$301,346,673.81 |
| 289 | 6.32\% | \$320,405,352.52 |
| 290 | 6.32\% | \$340,669,397.90 |
| 291 | 6.32\% | \$362,215,043.38 |
| 292 | 6.32\% | \$385,123,343.80 |
| 293 | 6.32\% | \$409,480,480.32 |
| 294 | 6.32\% | \$435,378,084.62 |
| 295 | 6.32\% | \$462,913,583.61 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## NEE Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 242.37 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$ .30$ |  |
| DCF Growth Estimate $=$ | $7.76 \%$ |  |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ |  | $9.06 \%$ |
| Constant DCF $=$ |  | $10.11 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 296 | 6.32\% | \$492,190,565.99 |
| 297 | 6.32\% | \$523,319,171.93 |
| 298 | 6.32\% | \$556,416,507.42 |
| 299 | 6.32\% | \$591,607,084.81 |
| 300 | 6.32\% | \$629,023,291.23 |
| 301 | 6.32\% | \$668,805,886.66 |
| 302 | 6.32\% | \$711,104,533.44 |
| 303 | 6.32\% | \$756,078,359.31 |
| 304 | 6.32\% | \$803,896,556.03 |
| 305 | 6.32\% | \$854,739,015.93 |
| 306 | 6.32\% | \$908,797,008.61 |
| 307 | 6.32\% | \$966,273,900.52 |
| 308 | 6.32\% | \$1,027,385,920.06 |
| 309 | 6.32\% | \$1,092,362,970.96 |
| 310 | 6.32\% | \$1,161,449,497.24 |
| 311 | 6.32\% | \$1,234,905,402.78 |
| 312 | 6.32\% | \$1,313,007,029.10 |
| 313 | 6.32\% | \$1,396,048,194.93 |
| 314 | 6.32\% | \$1,484,341,301.59 |
| 315 | 6.32\% | \$1,578,218,508.22 |
| 316 | 6.32\% | \$1,678,032,981.37 |
| 317 | 6.32\% | \$1,784,160,223.64 |
| 318 | 6.32\% | \$1,896,999,486.28 |
| 319 | 6.32\% | \$2,016,975,271.20 |
| 320 | 6.32\% | \$2,144,538,927.95 |
| 321 | 6.32\% | \$2,280,170,351.70 |
| 322 | 6.32\% | \$2,424,379,788.59 |
| 323 | 6.32\% | \$2,577,709,755.30 |
| 324 | 6.32\% | \$2,740,737,080.00 |
| 325 | 6.32\% | \$2,914,075,072.34 |
| 326 | 6.32\% | \$3,098,375,830.80 |
| 327 | 6.32\% | \$3,294,332,695.83 |
| 328 | 6.32\% | \$3,502,682,858.19 |
| 329 | 6.32\% | \$3,724,210,132.33 |
| 330 | 6.32\% | \$3,959,747,905.05 |
| 331 | 6.32\% | \$4,210,182,270.70 |
| 332 | 6.32\% | \$4,476,455,364.73 |
| 333 | 6.32\% | \$4,759,568,907.95 |
| 334 | 6.32\% | \$5,060,587,975.04 |
| 335 | 6.32\% | \$5,380,645,001.33 |
| 336 | 6.32\% | \$5,720,944,043.10 |
| 337 | 6.32\% | \$6,082,765,307.17 |
| 338 | 6.32\% | \$6,467,469,967.08 |
| 339 | 6.32\% | \$6,876,505,283.83 |
| 340 | 6.32\% | \$7,311,410,050.50 |
| 341 | 6.32\% | \$7,773,820,381.14 |
| 342 | 6.32\% | \$8,265,475,865.93 |
| 343 | 6.32\% | \$8,788,226,115.43 |
| 344 | 6.32\% | \$9,344,037,718.91 |
| 345 | 6.32\% | \$9,935,001,642.60 |
| 346 | 6.32\% | \$10,563,341,095.97 |
| 347 | 6.32\% | \$11,231,419,895.44 |
| 348 | 6.32\% | \$11,941,751,357.03 |
| 349 | 6.32\% | \$12,697,007,751.54 |
| 350 | 6.32\% | \$13,500,030,357.58 |
| 351 | 6.32\% | \$14,353,840,150.54 |
| 352 | 6.32\% | \$15,261,649,167.43 |
| 353 | 6.32\% | \$16,226,872,590.68 |
| 354 | 6.32\% | \$17,253,141,596.00 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## NEE Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 242.37 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$ .30$ |  |
| DCF Growth Estimate $=$ | $7.76 \%$ |  |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ |  | $9.06 \%$ |
| Constant DCF $=$ |  | $10.11 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 355 | 6.32\% | \$18,344,317,012.92 |
| 356 | 6.32\% | \$19,504,503,849.23 |
| 357 | 6.32\% | \$20,738,066,734.05 |
| 358 | 6.32\% | \$22,049,646,337.61 |
| 359 | 6.32\% | \$23,444,176,829.43 |
| 360 | 6.32\% | \$24,926,904,440.73 |
| 361 | 6.32\% | \$26,503,407,200.78 |
| 362 | 6.32\% | \$28,179,615,921.44 |
| 363 | 6.32\% | \$29,961,836,508.95 |
| 364 | 6.32\% | \$31,856,773,686.76 |
| 365 | 6.32\% | \$33,871,556,218.73 |
| 366 | 6.32\% | \$36,013,763,727.61 |
| 367 | 6.32\% | \$38,291,455,209.56 |
| 368 | 6.32\% | \$40,713,199,352.23 |
| 369 | 6.32\% | \$43,288,106,770.10 |
| 370 | 6.32\% | \$46,025,864,278.76 |
| 371 | 6.32\% | \$48,936,771,336.70 |
| 372 | 6.32\% | \$52,031,778,791.93 |
| 373 | 6.32\% | \$55,322,530,079.19 |
| 374 | 6.32\% | \$58,821,405,022.52 |
| 375 | 6.32\% | \$62,541,566,408.32 |
| 376 | 6.32\% | \$66,497,009,503.74 |
| 377 | 6.32\% | \$70,702,614,707.02 |
| 378 | 6.32\% | \$75,174,203,527.57 |
| 379 | 6.32\% | \$79,928,598,106.62 |
| 380 | 6.32\% | \$84,983,684,502.18 |
| 381 | 6.32\% | \$90,358,479,976.48 |
| 382 | 6.32\% | \$96,073,204,539.06 |
| 383 | 6.32\% | \$102,149,357,014.49 |
| 384 | 6.32\% | \$108,609,795,921.11 |
| 385 | 6.32\% | \$115,478,825,464.86 |
| 386 | 6.32\% | \$122,782,286,971.89 |
| 387 | 6.32\% | \$130,547,656,103.71 |
| 388 | 6.32\% | \$138,804,146,220.82 |
| 389 | 6.32\% | \$147,582,818,283.51 |
| 390 | 6.32\% | \$156,916,697,703.34 |
| 391 | 6.32\% | \$166,840,898,584.95 |
| 392 | 6.32\% | \$177,392,755,825.52 |
| 393 | 6.32\% | \$188,611,965,568.79 |
| 394 | 6.32\% | \$200,540,734,542.25 |
| 395 | 6.32\% | \$213,223,938,839.01 |
| 396 | 6.32\% | \$226,709,292,741.94 |
| 397 | 6.32\% | \$241,047,528,225.03 |
| 398 | 6.32\% | \$256,292,585,807.40 |
| 399 | 6.32\% | \$272,501,817,477.76 |
| 400 | 6.32\% | \$289,736,202,452.95 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> AEP Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 87.16 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.80 |
| DCF Growth Estimate $=$ |  | $4.86 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.23 \%$ |  |
| Constant DCF $=$ |  | $8.23 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 1 | 4.86\% | \$2.94 |
| 2 | 4.86\% | \$3.08 |
| 3 | 4.86\% | \$3.23 |
| 4 | 4.86\% | \$3.39 |
| 5 | 4.86\% | \$3.55 |
| 6 | 4.94\% | \$3.73 |
| 7 | 5.01\% | \$3.91 |
| 8 | 5.08\% | \$4.11 |
| 9 | 5.16\% | \$4.32 |
| 10 | 5.23\% | \$4.55 |
| 11 | 5.30\% | \$4.79 |
| 12 | 5.38\% | \$5.05 |
| 13 | 5.45\% | \$5.32 |
| 14 | 5.52\% | \$5.62 |
| 15 | 5.59\% | \$5.93 |
| 16 | 5.67\% | \$6.27 |
| 17 | 5.74\% | \$6.63 |
| 18 | 5.81\% | \$7.01 |
| 19 | 5.89\% | \$7.43 |
| 20 | 5.96\% | \$7.87 |
| 21 | 6.03\% | \$8.34 |
| 22 | 6.11\% | \$8.85 |
| 23 | 6.18\% | \$9.40 |
| 24 | 6.25\% | \$9.99 |
| 25 | 6.32\% | \$10.62 |
| 26 | 6.32\% | \$11.29 |
| 27 | 6.32\% | \$12.00 |
| 28 | 6.32\% | \$12.76 |
| 29 | 6.32\% | \$13.57 |
| 30 | 6.32\% | \$14.43 |
| 31 | 6.32\% | \$15.34 |
| 32 | 6.32\% | \$16.31 |
| 33 | 6.32\% | \$17.34 |
| 34 | 6.32\% | \$18.44 |
| 35 | 6.32\% | \$19.61 |
| 36 | 6.32\% | \$20.85 |
| 37 | 6.32\% | \$22.16 |
| 38 | 6.32\% | \$23.57 |
| 39 | 6.32\% | \$25.06 |
| 40 | 6.32\% | \$26.64 |
| 41 | 6.32\% | \$28.33 |
| 42 | 6.32\% | \$30.12 |
| 43 | 6.32\% | \$32.02 |
| 44 | 6.32\% | \$34.05 |
| 45 | 6.32\% | \$36.20 |
| 46 | 6.32\% | \$38.49 |
| 47 | 6.32\% | \$40.92 |
| 48 | 6.32\% | \$43.51 |
| 49 | 6.32\% | \$46.26 |
| 50 | 6.32\% | \$49.19 |
| 51 | 6.32\% | \$52.30 |
| 52 | 6.32\% | \$55.61 |
| 53 | 6.32\% | \$59.13 |
| 54 | 6.32\% | \$62.87 |
| 55 | 6.32\% | \$66.84 |
| 56 | 6.32\% | \$71.07 |
| 57 | 6.32\% | \$75.56 |
| 58 | 6.32\% | \$80.34 |
| 59 | 6.32\% | \$85.42 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> AEP Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 87.16 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.80 |
| DCF Growth Estimate $=$ |  | $4.86 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.23 \%$ |  |
| Constant DCF $=$ |  | $8.23 \%$ |


| YEAR | $\begin{aligned} & \text { GROWTH } \\ & \text { RATE } \end{aligned}$ | DIVIDEND |
| :---: | :---: | :---: |
| 60 | 6.32\% | \$90.83 |
| 61 | 6.32\% | \$96.57 |
| 62 | 6.32\% | \$102.68 |
| 63 | 6.32\% | \$109.17 |
| 64 | 6.32\% | \$116.08 |
| 65 | 6.32\% | \$123.42 |
| 66 | 6.32\% | \$131.22 |
| 67 | 6.32\% | \$139.52 |
| 68 | 6.32\% | \$148.35 |
| 69 | 6.32\% | \$157.73 |
| 70 | 6.32\% | \$167.71 |
| 71 | 6.32\% | \$178.31 |
| 72 | 6.32\% | \$189.59 |
| 73 | 6.32\% | \$201.58 |
| 74 | 6.32\% | \$214.33 |
| 75 | 6.32\% | \$227.88 |
| 76 | 6.32\% | \$242.30 |
| 77 | 6.32\% | \$257.62 |
| 78 | 6.32\% | \$273.91 |
| 79 | 6.32\% | \$291.24 |
| 80 | 6.32\% | \$309.66 |
| 81 | 6.32\% | \$329.24 |
| 82 | 6.32\% | \$350.06 |
| 83 | 6.32\% | \$372.20 |
| 84 | 6.32\% | \$395.74 |
| 85 | 6.32\% | \$420.77 |
| 86 | 6.32\% | \$447.38 |
| 87 | 6.32\% | \$475.68 |
| 88 | 6.32\% | \$505.76 |
| 89 | 6.32\% | \$537.75 |
| 90 | 6.32\% | \$571.76 |
| 91 | 6.32\% | \$607.92 |
| 92 | 6.32\% | \$646.37 |
| 93 | 6.32\% | \$687.25 |
| 94 | 6.32\% | \$730.71 |
| 95 | 6.32\% | \$776.93 |
| 96 | 6.32\% | \$826.06 |
| 97 | 6.32\% | \$878.31 |
| 98 | 6.32\% | \$933.86 |
| 99 | 6.32\% | \$992.92 |
| 100 | 6.32\% | \$1,055.72 |
| 101 | 6.32\% | \$1,122.48 |
| 102 | 6.32\% | \$1,193.48 |
| 103 | 6.32\% | \$1,268.96 |
| 104 | 6.32\% | \$1,349.21 |
| 105 | 6.32\% | \$1,434.54 |
| 106 | 6.32\% | \$1,525.27 |
| 107 | 6.32\% | \$1,621.74 |
| 108 | 6.32\% | \$1,724.30 |
| 109 | 6.32\% | \$1,833.36 |
| 110 | 6.32\% | \$1,949.31 |
| 111 | 6.32\% | \$2,072.59 |
| 112 | 6.32\% | \$2,203.67 |
| 113 | 6.32\% | \$2,343.04 |
| 114 | 6.32\% | \$2,491.23 |
| 115 | 6.32\% | \$2,648.79 |
| 116 | 6.32\% | \$2,816.31 |
| 117 | 6.32\% | \$2,994.43 |
| 118 | 6.32\% | \$3,183.81 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## AEP Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 87.16 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.80 |
| DCF Growth Estimate $=$ |  | $4.86 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.23 \%$ |  |
| Constant DCF $=$ |  | $8.23 \%$ |


| YEAR | $\begin{aligned} & \text { GROWTH } \\ & \text { RATE } \\ & \hline \end{aligned}$ | DIVIDEND |
| :---: | :---: | :---: |
| 119 | 6.32\% | \$3,385.17 |
| 120 | 6.32\% | \$3,599.27 |
| 121 | 6.32\% | \$3,826.90 |
| 122 | 6.32\% | \$4,068.94 |
| 123 | 6.32\% | \$4,326.28 |
| 124 | 6.32\% | \$4,599.89 |
| 125 | 6.32\% | \$4,890.81 |
| 126 | 6.32\% | \$5,200.13 |
| 127 | 6.32\% | \$5,529.01 |
| 128 | 6.32\% | \$5,878.70 |
| 129 | 6.32\% | \$6,250.49 |
| 130 | 6.32\% | \$6,645.81 |
| 131 | 6.32\% | \$7,066.12 |
| 132 | 6.32\% | \$7,513.02 |
| 133 | 6.32\% | \$7,988.18 |
| 134 | 6.32\% | \$8,493.39 |
| 135 | 6.32\% | \$9,030.56 |
| 136 | 6.32\% | \$9,601.69 |
| 137 | 6.32\% | \$10,208.95 |
| 138 | 6.32\% | \$10,854.62 |
| 139 | 6.32\% | \$11,541.12 |
| 140 | 6.32\% | \$12,271.04 |
| 141 | 6.32\% | \$13,047.12 |
| 142 | 6.32\% | \$13,872.28 |
| 143 | 6.32\% | \$14,749.64 |
| 144 | 6.32\% | \$15,682.48 |
| 145 | 6.32\% | \$16,674.32 |
| 146 | 6.32\% | \$17,728.89 |
| 147 | 6.32\% | \$18,850.15 |
| 148 | 6.32\% | \$20,042.33 |
| 149 | 6.32\% | \$21,309.90 |
| 150 | 6.32\% | \$22,657.65 |
| 151 | 6.32\% | \$24,090.63 |
| 152 | 6.32\% | \$25,614.25 |
| 153 | 6.32\% | \$27,234.22 |
| 154 | 6.32\% | \$28,956.65 |
| 155 | 6.32\% | \$30,788.01 |
| 156 | 6.32\% | \$32,735.20 |
| 157 | 6.32\% | \$34,805.54 |
| 158 | 6.32\% | \$37,006.82 |
| 159 | 6.32\% | \$39,347.32 |
| 160 | 6.32\% | \$41,835.84 |
| 161 | 6.32\% | \$44,481.75 |
| 162 | 6.32\% | \$47,295.00 |
| 163 | 6.32\% | \$50,286.17 |
| 164 | 6.32\% | \$53,466.52 |
| 165 | 6.32\% | \$56,848.01 |
| 166 | 6.32\% | \$60,443.36 |
| 167 | 6.32\% | \$64,266.11 |
| 168 | 6.32\% | \$68,330.62 |
| 169 | 6.32\% | \$72,652.19 |
| 170 | 6.32\% | \$77,247.08 |
| 171 | 6.32\% | \$82,132.57 |
| 172 | 6.32\% | \$87,327.05 |
| 173 | 6.32\% | \$92,850.05 |
| 174 | 6.32\% | \$98,722.36 |
| 175 | 6.32\% | \$104,966.06 |
| 176 | 6.32\% | \$111,604.64 |
| 177 | 6.32\% | \$118,663.07 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## AEP Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 87.16 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.80 |
| DCF Growth Estimate $=$ |  | $4.86 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.23 \%$ |  |
| Constant DCF $=$ |  | $8.23 \%$ |


| YEAR | $\begin{aligned} & \text { GROWTH } \\ & \text { RATE } \\ & \hline \end{aligned}$ | DIVIDEND |
| :---: | :---: | :---: |
| 178 | 6.32\% | \$126,167.92 |
| 179 | 6.32\% | \$134,147.42 |
| 180 | 6.32\% | \$142,631.58 |
| 181 | 6.32\% | \$151,652.31 |
| 182 | 6.32\% | \$161,243.57 |
| 183 | 6.32\% | \$171,441.42 |
| 184 | 6.32\% | \$182,284.24 |
| 185 | 6.32\% | \$193,812.81 |
| 186 | 6.32\% | \$206,070.51 |
| 187 | 6.32\% | \$219,103.44 |
| 188 | 6.32\% | \$232,960.65 |
| 189 | 6.32\% | \$247,694.25 |
| 190 | 6.32\% | \$263,359.68 |
| 191 | 6.32\% | \$280,015.87 |
| 192 | 6.32\% | \$297,725.48 |
| 193 | 6.32\% | \$316,555.14 |
| 194 | 6.32\% | \$336,575.67 |
| 195 | 6.32\% | \$357,862.41 |
| 196 | 6.32\% | \$380,495.43 |
| 197 | 6.32\% | \$404,559.87 |
| 198 | 6.32\% | \$430,146.27 |
| 199 | 6.32\% | \$457,350.89 |
| 200 | 6.32\% | \$486,276.06 |
| 201 | 6.32\% | \$517,030.60 |
| 202 | 6.32\% | \$549,730.21 |
| 203 | 6.32\% | \$584,497.92 |
| 204 | 6.32\% | \$621,464.50 |
| 205 | 6.32\% | \$660,769.04 |
| 206 | 6.32\% | \$702,559.40 |
| 207 | 6.32\% | \$746,992.79 |
| 208 | 6.32\% | \$794,236.37 |
| 209 | 6.32\% | \$844,467.87 |
| 210 | 6.32\% | \$897,876.26 |
| 211 | 6.32\% | \$954,662.47 |
| 212 | 6.32\% | \$1,015,040.12 |
| 213 | 6.32\% | \$1,079,236.36 |
| 214 | 6.32\% | \$1,147,492.70 |
| 215 | 6.32\% | \$1,220,065.91 |
| 216 | 6.32\% | \$1,297,229.01 |
| 217 | 6.32\% | \$1,379,272.29 |
| 218 | 6.32\% | \$1,466,504.41 |
| 219 | 6.32\% | \$1,559,253.52 |
| 220 | 6.32\% | \$1,657,868.55 |
| 221 | 6.32\% | \$1,762,720.49 |
| 222 | 6.32\% | \$1,874,203.80 |
| 223 | 6.32\% | \$1,992,737.87 |
| 224 | 6.32\% | \$2,118,768.63 |
| 225 | 6.32\% | \$2,252,770.21 |
| 226 | 6.32\% | \$2,395,246.73 |
| 227 | 6.32\% | \$2,546,734.17 |
| 228 | 6.32\% | \$2,707,802.44 |
| 229 | 6.32\% | \$2,879,057.48 |
| 230 | 6.32\% | \$3,061,143.56 |
| 231 | 6.32\% | \$3,254,745.66 |
| 232 | 6.32\% | \$3,460,592.14 |
| 233 | 6.32\% | \$3,679,457.39 |
| 234 | 6.32\% | \$3,912,164.77 |
| 235 | 6.32\% | \$4,159,589.74 |
| 236 | 6.32\% | \$4,422,663.11 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## AEP Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 87.16 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.80 |
| DCF Growth Estimate $=$ |  | $4.86 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.23 \%$ |  |
| Constant DCF $=$ |  | $8.23 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 237 | 6.32\% | \$4,702,374.56 |
| 238 | 6.32\% | \$4,999,776.37 |
| 239 | 6.32\% | \$5,315,987.36 |
| 240 | 6.32\% | \$5,652,197.13 |
| 241 | 6.32\% | \$6,009,670.50 |
| 242 | 6.32\% | \$6,389,752.27 |
| 243 | 6.32\% | \$6,793,872.33 |
| 244 | 6.32\% | \$7,223,550.98 |
| 245 | 6.32\% | \$7,680,404.66 |
| 246 | 6.32\% | \$8,166,152.06 |
| 247 | 6.32\% | \$8,682,620.57 |
| 248 | 6.32\% | \$9,231,753.15 |
| 249 | 6.32\% | \$9,815,615.63 |
| 250 | 6.32\% | \$10,436,404.52 |
| 251 | 6.32\% | \$11,096,455.21 |
| 252 | 6.32\% | \$11,798,250.83 |
| 253 | 6.32\% | \$12,544,431.52 |
| 254 | 6.32\% | \$13,337,804.44 |
| 255 | 6.32\% | \$14,181,354.25 |
| 256 | 6.32\% | \$15,078,254.39 |
| 257 | 6.32\% | \$16,031,879.01 |
| 258 | 6.32\% | \$17,045,815.64 |
| 259 | 6.32\% | \$18,123,878.72 |
| 260 | 6.32\% | \$19,270,123.93 |
| 261 | 6.32\% | \$20,488,863.45 |
| 262 | 6.32\% | \$21,784,682.19 |
| 263 | 6.32\% | \$23,162,455.02 |
| 264 | 6.32\% | \$24,627,365.12 |
| 265 | 6.32\% | \$26,184,923.51 |
| 266 | 6.32\% | \$27,840,989.72 |
| 267 | 6.32\% | \$29,601,793.89 |
| 268 | 6.32\% | \$31,473,960.16 |
| 269 | 6.32\% | \$33,464,531.64 |
| 270 | 6.32\% | \$35,580,996.87 |
| 271 | 6.32\% | \$37,831,318.00 |
| 272 | 6.32\% | \$40,223,960.75 |
| 273 | 6.32\% | \$42,767,926.26 |
| 274 | 6.32\% | \$45,472,784.93 |
| 275 | 6.32\% | \$48,348,712.47 |
| 276 | 6.32\% | \$51,406,528.13 |
| 277 | 6.32\% | \$54,657,735.42 |
| 278 | 6.32\% | \$58,114,565.41 |
| 279 | 6.32\% | \$61,790,022.70 |
| 280 | 6.32\% | \$65,697,934.40 |
| 281 | 6.32\% | \$69,853,002.07 |
| 282 | 6.32\% | \$74,270,857.12 |
| 283 | 6.32\% | \$78,968,119.53 |
| 284 | 6.32\% | \$83,962,460.43 |
| 285 | 6.32\% | \$89,272,668.56 |
| 286 | 6.32\% | \$94,918,720.95 |
| 287 | 6.32\% | \$100,921,858.08 |
| 288 | 6.32\% | \$107,304,663.78 |
| 289 | 6.32\% | \$114,091,150.21 |
| 290 | 6.32\% | \$121,306,848.15 |
| 291 | 6.32\% | \$128,978,903.12 |
| 292 | 6.32\% | \$137,136,177.41 |
| 293 | 6.32\% | \$145,809,358.74 |
| 294 | 6.32\% | \$155,031,075.66 |
| 295 | 6.32\% | \$164,836,020.32 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## AEP Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 87.16 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.80 |
| DCF Growth Estimate $=$ |  | $4.86 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.23 \%$ |  |
| Constant DCF $=$ |  | $8.23 \%$ |


| YEAR | $\begin{aligned} & \text { GROWTH } \\ & \text { RATE } \end{aligned}$ | DIVIDEND |
| :---: | :---: | :---: |
| 296 | 6.32\% | \$175,261,078.98 |
| 297 | 6.32\% | \$186,345,470.76 |
| 298 | 6.32\% | \$198,130,895.21 |
| 299 | 6.32\% | \$210,661,689.15 |
| 300 | 6.32\% | \$223,984,993.50 |
| 301 | 6.32\% | \$238,150,930.61 |
| 302 | 6.32\% | \$253,212,792.79 |
| 303 | 6.32\% | \$269,227,242.87 |
| 304 | 6.32\% | \$286,254,527.28 |
| 305 | 6.32\% | \$304,358,702.77 |
| 306 | 6.32\% | \$323,607,877.33 |
| 307 | 6.32\% | \$344,074,466.48 |
| 308 | 6.32\% | \$365,835,465.62 |
| 309 | 6.32\% | \$388,972,739.75 |
| 310 | 6.32\% | \$413,573,331.42 |
| 311 | 6.32\% | \$439,729,788.19 |
| 312 | 6.32\% | \$467,540,510.79 |
| 313 | 6.32\% | \$497,110,123.32 |
| 314 | 6.32\% | \$528,549,866.80 |
| 315 | 6.32\% | \$561,978,017.73 |
| 316 | 6.32\% | \$597,520,332.99 |
| 317 | 6.32\% | \$635,310,522.95 |
| 318 | 6.32\% | \$675,490,754.53 |
| 319 | 6.32\% | \$718,212,185.96 |
| 320 | 6.32\% | \$763,635,535.51 |
| 321 | 6.32\% | \$811,931,686.05 |
| 322 | 6.32\% | \$863,282,327.97 |
| 323 | 6.32\% | \$917,880,642.65 |
| 324 | 6.32\% | \$975,932,029.25 |
| 325 | 6.32\% | \$1,037,654,877.41 |
| 326 | 6.32\% | \$1,103,281,388.80 |
| 327 | 6.32\% | \$1,173,058,450.72 |
| 328 | 6.32\% | \$1,247,248,564.84 |
| 329 | 6.32\% | \$1,326,130,834.78 |
| 330 | 6.32\% | \$1,410,002,016.07 |
| 331 | 6.32\% | \$1,499,177,632.53 |
| 332 | 6.32\% | \$1,593,993,163.32 |
| 333 | 6.32\% | \$1,694,805,304.97 |
| 334 | 6.32\% | \$1,801,993,313.31 |
| 335 | 6.32\% | \$1,915,960,430.20 |
| 336 | 6.32\% | \$2,037,135,400.54 |
| 337 | 6.32\% | \$2,165,974,085.23 |
| 338 | 6.32\% | \$2,302,961,176.10 |
| 339 | 6.32\% | \$2,448,612,019.31 |
| 340 | 6.32\% | \$2,603,474,554.12 |
| 341 | 6.32\% | \$2,768,131,374.22 |
| 342 | 6.32\% | \$2,943,201,919.46 |
| 343 | 6.32\% | \$3,129,344,806.18 |
| 344 | 6.32\% | \$3,327,260,304.90 |
| 345 | 6.32\% | \$3,537,692,974.81 |
| 346 | 6.32\% | \$3,761,434,464.75 |
| 347 | 6.32\% | \$3,999,326,491.39 |
| 348 | 6.32\% | \$4,252,264,005.84 |
| 349 | 6.32\% | \$4,521,198,560.37 |
| 350 | 6.32\% | \$4,807,141,888.23 |
| 351 | 6.32\% | \$5,111,169,709.77 |
| 352 | 6.32\% | \$5,434,425,779.28 |
| 353 | 6.32\% | \$5,778,126,187.83 |
| 354 | 6.32\% | \$6,143,563,938.22 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## AEP Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 87.16 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.80 |
| DCF Growth Estimate $=$ |  | $4.86 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.23 \%$ |  |
| Constant DCF $=$ |  | $8.23 \%$ |


| YEAR | GROWTH <br> RATE | DIVIDEND |
| :---: | :---: | :---: |
| 355 | 6.32\% | \$6,532,113,809.23 |
| 356 | 6.32\% | \$6,945,237,527.57 |
| 357 | 6.32\% | \$7,384,489,266.89 |
| 358 | 6.32\% | \$7,851,521,494.59 |
| 359 | 6.32\% | \$8,348,091,188.44 |
| 360 | 6.32\% | \$8,876,066,446.30 |
| 361 | 6.32\% | \$9,437,433,513.93 |
| 362 | 6.32\% | \$10,034,304,257.26 |
| 363 | 6.32\% | \$10,668,924,107.24 |
| 364 | 6.32\% | \$11,343,680,507.17 |
| 365 | 6.32\% | \$12,061,111,894.26 |
| 366 | 6.32\% | \$12,823,917,249.24 |
| 367 | 6.32\% | \$13,634,966,249.97 |
| 368 | 6.32\% | \$14,497,310,067.17 |
| 369 | 6.32\% | \$15,414,192,842.90 |
| 370 | 6.32\% | \$16,389,063,895.12 |
| 371 | 6.32\% | \$17,425,590,693.98 |
| 372 | 6.32\% | \$18,527,672,658.86 |
| 373 | 6.32\% | \$19,699,455,828.06 |
| 374 | 6.32\% | \$20,945,348,456.17 |
| 375 | 6.32\% | \$22,270,037,597.97 |
| 376 | 6.32\% | \$23,678,506,741.14 |
| 377 | 6.32\% | \$25,176,054,554.18 |
| 378 | 6.32\% | \$26,768,314,820.04 |
| 379 | 6.32\% | \$28,461,277,630.40 |
| 380 | 6.32\% | \$30,261,311,920.48 |
| 381 | 6.32\% | \$32,175,189,428.96 |
| 382 | 6.32\% | \$34,210,110,173.35 |
| 383 | 6.32\% | \$36,373,729,536.43 |
| 384 | 6.32\% | \$38,674,187,065.92 |
| 385 | 6.32\% | \$41,120,137,095.41 |
| 386 | 6.32\% | \$43,720,781,302.10 |
| 387 | 6.32\% | \$46,485,903,323.49 |
| 388 | 6.32\% | \$49,425,905,563.51 |
| 389 | 6.32\% | \$52,551,848,326.44 |
| 390 | 6.32\% | \$55,875,491,425.77 |
| 391 | 6.32\% | \$59,409,338,424.75 |
| 392 | 6.32\% | \$63,166,683,674.81 |
| 393 | 6.32\% | \$67,161,662,329.03 |
| 394 | 6.32\% | \$71,409,303,518.60 |
| 395 | 6.32\% | \$75,925,586,892.56 |
| 396 | 6.32\% | \$80,727,502,733.29 |
| 397 | 6.32\% | \$85,833,115,874.04 |
| 398 | 6.32\% | \$91,261,633,658.93 |
| 399 | 6.32\% | \$97,033,478,201.11 |
| 400 | 6.32\% | \$103,170,363,210.82 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## ED Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 81.48 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 3.01 |
| DCF Growth Estimate $=$ |  | $2.52 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.88 \%$ |  |
| Constant DCF $=$ |  | $6.30 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 1 | 2.52\% | \$3.09 |
| 2 | 2.52\% | \$3.16 |
| 3 | 2.52\% | \$3.24 |
| 4 | 2.52\% | \$3.32 |
| 5 | 2.52\% | \$3.41 |
| 6 | 2.71\% | \$3.50 |
| 7 | 2.90\% | \$3.60 |
| 8 | 3.09\% | \$3.71 |
| 9 | 3.28\% | \$3.83 |
| 10 | 3.47\% | \$3.97 |
| 11 | 3.66\% | \$4.11 |
| 12 | 3.85\% | \$4.27 |
| 13 | 4.04\% | \$4.44 |
| 14 | 4.23\% | \$4.63 |
| 15 | 4.42\% | \$4.84 |
| 16 | 4.61\% | \$5.06 |
| 17 | 4.80\% | \$5.30 |
| 18 | 4.99\% | \$5.57 |
| 19 | 5.18\% | \$5.86 |
| 20 | 5.37\% | \$6.17 |
| 21 | 5.56\% | \$6.51 |
| 22 | 5.75\% | \$6.89 |
| 23 | 5.94\% | \$7.30 |
| 24 | 6.13\% | \$7.75 |
| 25 | 6.32\% | \$8.23 |
| 26 | 6.32\% | \$8.76 |
| 27 | 6.32\% | \$9.31 |
| 28 | 6.32\% | \$9.90 |
| 29 | 6.32\% | \$10.52 |
| 30 | 6.32\% | \$11.19 |
| 31 | 6.32\% | \$11.90 |
| 32 | 6.32\% | \$12.65 |
| 33 | 6.32\% | \$13.45 |
| 34 | 6.32\% | \$14.30 |
| 35 | 6.32\% | \$15.21 |
| 36 | 6.32\% | \$16.17 |
| 37 | 6.32\% | \$17.19 |
| 38 | 6.32\% | \$18.28 |
| 39 | 6.32\% | \$19.43 |
| 40 | 6.32\% | \$20.66 |
| 41 | 6.32\% | \$21.97 |
| 42 | 6.32\% | \$23.36 |
| 43 | 6.32\% | \$24.83 |
| 44 | 6.32\% | \$26.41 |
| 45 | 6.32\% | \$28.08 |
| 46 | 6.32\% | \$29.85 |
| 47 | 6.32\% | \$31.74 |
| 48 | 6.32\% | \$33.75 |
| 49 | 6.32\% | \$35.88 |
| 50 | 6.32\% | \$38.15 |
| 51 | 6.32\% | \$40.56 |
| 52 | 6.32\% | \$43.13 |
| 53 | 6.32\% | \$45.86 |
| 54 | 6.32\% | \$48.76 |
| 55 | 6.32\% | \$51.84 |
| 56 | 6.32\% | \$55.12 |
| 57 | 6.32\% | \$58.60 |
| 58 | 6.32\% | \$62.31 |
| 59 | 6.32\% | \$66.25 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## ED Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 81.48 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 3.01 |
| DCF Growth Estimate $=$ |  | $2.52 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.88 \%$ |  |
| Constant DCF $=$ |  | $6.30 \%$ |


| YEAR | GROWTH <br> RATE | DIVIDEND |
| :---: | :---: | :---: |
| 60 | 6.32\% | \$70.44 |
| 61 | 6.32\% | \$74.90 |
| 62 | 6.32\% | \$79.63 |
| 63 | 6.32\% | \$84.67 |
| 64 | 6.32\% | \$90.02 |
| 65 | 6.32\% | \$95.72 |
| 66 | 6.32\% | \$101.77 |
| 67 | 6.32\% | \$108.21 |
| 68 | 6.32\% | \$115.05 |
| 69 | 6.32\% | \$122.33 |
| 70 | 6.32\% | \$130.06 |
| 71 | 6.32\% | \$138.29 |
| 72 | 6.32\% | \$147.04 |
| 73 | 6.32\% | \$156.34 |
| 74 | 6.32\% | \$166.22 |
| 75 | 6.32\% | \$176.74 |
| 76 | 6.32\% | \$187.91 |
| 77 | 6.32\% | \$199.80 |
| 78 | 6.32\% | \$212.43 |
| 79 | 6.32\% | \$225.87 |
| 80 | 6.32\% | \$240.15 |
| 81 | 6.32\% | \$255.34 |
| 82 | 6.32\% | \$271.49 |
| 83 | 6.32\% | \$288.66 |
| 84 | 6.32\% | \$306.92 |
| 85 | 6.32\% | \$326.33 |
| 86 | 6.32\% | \$346.97 |
| 87 | 6.32\% | \$368.91 |
| 88 | 6.32\% | \$392.25 |
| 89 | 6.32\% | \$417.05 |
| 90 | 6.32\% | \$443.43 |
| 91 | 6.32\% | \$471.47 |
| 92 | 6.32\% | \$501.29 |
| 93 | 6.32\% | \$533.00 |
| 94 | 6.32\% | \$566.71 |
| 95 | 6.32\% | \$602.55 |
| 96 | 6.32\% | \$640.66 |
| 97 | 6.32\% | \$681.17 |
| 98 | 6.32\% | \$724.26 |
| 99 | 6.32\% | \$770.06 |
| 100 | 6.32\% | \$818.76 |
| 101 | 6.32\% | \$870.55 |
| 102 | 6.32\% | \$925.60 |
| 103 | 6.32\% | \$984.14 |
| 104 | 6.32\% | \$1,046.39 |
| 105 | 6.32\% | \$1,112.57 |
| 106 | 6.32\% | \$1,182.93 |
| 107 | 6.32\% | \$1,257.74 |
| 108 | 6.32\% | \$1,337.29 |
| 109 | 6.32\% | \$1,421.87 |
| 110 | 6.32\% | \$1,511.79 |
| 111 | 6.32\% | \$1,607.41 |
| 112 | 6.32\% | \$1,709.07 |
| 113 | 6.32\% | \$1,817.16 |
| 114 | 6.32\% | \$1,932.08 |
| 115 | 6.32\% | \$2,054.28 |
| 116 | 6.32\% | \$2,184.20 |
| 117 | 6.32\% | \$2,322.34 |
| 118 | 6.32\% | \$2,469.22 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## ED Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 81.48 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$$ | 3.01 |
| DCF Growth Estimate $=$ |  | $2.52 \%$ |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.88 \%$ |  |
| Constant DCF $=$ |  | $6.30 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 119 | 6.32\% | \$2,625.38 |
| 120 | 6.32\% | \$2,791.42 |
| 121 | 6.32\% | \$2,967.97 |
| 122 | 6.32\% | \$3,155.68 |
| 123 | 6.32\% | \$3,355.26 |
| 124 | 6.32\% | \$3,567.46 |
| 125 | 6.32\% | \$3,793.09 |
| 126 | 6.32\% | \$4,032.98 |
| 127 | 6.32\% | \$4,288.05 |
| 128 | 6.32\% | \$4,559.24 |
| 129 | 6.32\% | \$4,847.59 |
| 130 | 6.32\% | \$5,154.18 |
| 131 | 6.32\% | \$5,480.15 |
| 132 | 6.32\% | \$5,826.75 |
| 133 | 6.32\% | \$6,195.26 |
| 134 | 6.32\% | \$6,587.08 |
| 135 | 6.32\% | \$7,003.68 |
| 136 | 6.32\% | \$7,446.63 |
| 137 | 6.32\% | \$7,917.59 |
| 138 | 6.32\% | \$8,418.34 |
| 139 | 6.32\% | \$8,950.76 |
| 140 | 6.32\% | \$9,516.85 |
| 141 | 6.32\% | \$10,118.74 |
| 142 | 6.32\% | \$10,758.70 |
| 143 | 6.32\% | \$11,439.13 |
| 144 | 6.32\% | \$12,162.60 |
| 145 | 6.32\% | \$12,931.83 |
| 146 | 6.32\% | \$13,749.70 |
| 147 | 6.32\% | \$14,619.30 |
| 148 | 6.32\% | \$15,543.90 |
| 149 | 6.32\% | \$16,526.97 |
| 150 | 6.32\% | \$17,572.22 |
| 151 | 6.32\% | \$18,683.58 |
| 152 | 6.32\% | \$19,865.22 |
| 153 | 6.32\% | \$21,121.60 |
| 154 | 6.32\% | \$22,457.43 |
| 155 | 6.32\% | \$23,877.75 |
| 156 | 6.32\% | \$25,387.90 |
| 157 | 6.32\% | \$26,993.56 |
| 158 | 6.32\% | \$28,700.77 |
| 159 | 6.32\% | \$30,515.95 |
| 160 | 6.32\% | \$32,445.93 |
| 161 | 6.32\% | \$34,497.98 |
| 162 | 6.32\% | \$36,679.80 |
| 163 | 6.32\% | \$38,999.62 |
| 164 | 6.32\% | \$41,466.15 |
| 165 | 6.32\% | \$44,088.68 |
| 166 | 6.32\% | \$46,877.06 |
| 167 | 6.32\% | \$49,841.81 |
| 168 | 6.32\% | \$52,994.05 |
| 169 | 6.32\% | \$56,345.66 |
| 170 | 6.32\% | \$59,909.25 |
| 171 | 6.32\% | \$63,698.21 |
| 172 | 6.32\% | \$67,726.80 |
| 173 | 6.32\% | \$72,010.19 |
| 174 | 6.32\% | \$76,564.47 |
| 175 | 6.32\% | \$81,406.79 |
| 176 | 6.32\% | \$86,555.37 |
| 177 | 6.32\% | \$92,029.57 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## ED Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 81.48 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$$ | 3.01 |
| DCF Growth Estimate $=$ |  | $2.52 \%$ |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.88 \%$ |  |
| Constant DCF $=$ |  | $6.30 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 178 | 6.32\% | \$97,849.98 |
| 179 | 6.32\% | \$104,038.50 |
| 180 | 6.32\% | \$110,618.42 |
| 181 | 6.32\% | \$117,614.49 |
| 182 | 6.32\% | \$125,053.02 |
| 183 | 6.32\% | \$132,962.00 |
| 184 | 6.32\% | \$141,371.19 |
| 185 | 6.32\% | \$150,312.21 |
| 186 | 6.32\% | \$159,818.71 |
| 187 | 6.32\% | \$169,926.45 |
| 188 | 6.32\% | \$180,673.45 |
| 189 | 6.32\% | \$192,100.15 |
| 190 | 6.32\% | \$204,249.53 |
| 191 | 6.32\% | \$217,167.29 |
| 192 | 6.32\% | \$230,902.05 |
| 193 | 6.32\% | \$245,505.45 |
| 194 | 6.32\% | \$261,032.45 |
| 195 | 6.32\% | \$277,541.46 |
| 196 | 6.32\% | \$295,094.57 |
| 197 | 6.32\% | \$313,757.84 |
| 198 | 6.32\% | \$333,601.46 |
| 199 | 6.32\% | \$354,700.09 |
| 200 | 6.32\% | \$377,133.11 |
| 201 | 6.32\% | \$400,984.91 |
| 202 | 6.32\% | \$426,345.21 |
| 203 | 6.32\% | \$453,309.42 |
| 204 | 6.32\% | \$481,978.99 |
| 205 | 6.32\% | \$512,461.76 |
| 206 | 6.32\% | \$544,872.42 |
| 207 | 6.32\% | \$579,332.89 |
| 208 | 6.32\% | \$615,972.82 |
| 209 | 6.32\% | \$654,930.04 |
| 210 | 6.32\% | \$696,351.10 |
| 211 | 6.32\% | \$740,391.85 |
| 212 | 6.32\% | \$787,217.95 |
| 213 | 6.32\% | \$837,005.57 |
| 214 | 6.32\% | \$889,942.01 |
| 215 | 6.32\% | \$946,226.42 |
| 216 | 6.32\% | \$1,006,070.54 |
| 217 | 6.32\% | \$1,069,699.49 |
| 218 | 6.32\% | \$1,137,352.67 |
| 219 | 6.32\% | \$1,209,284.57 |
| 220 | 6.32\% | \$1,285,765.81 |
| 221 | 6.32\% | \$1,367,084.10 |
| 222 | 6.32\% | \$1,453,545.37 |
| 223 | 6.32\% | \$1,545,474.89 |
| 224 | 6.32\% | \$1,643,218.49 |
| 225 | 6.32\% | \$1,747,143.89 |
| 226 | 6.32\% | \$1,857,642.05 |
| 227 | 6.32\% | \$1,975,128.68 |
| 228 | 6.32\% | \$2,100,045.74 |
| 229 | 6.32\% | \$2,232,863.20 |
| 230 | 6.32\% | \$2,374,080.69 |
| 231 | 6.32\% | \$2,524,229.49 |
| 232 | 6.32\% | \$2,683,874.45 |
| 233 | 6.32\% | \$2,853,616.17 |
| 234 | 6.32\% | \$3,034,093.20 |
| 235 | 6.32\% | \$3,225,984.51 |
| 236 | 6.32\% | \$3,430,011.99 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## ED Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 81.48 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 3.01 |
| DCF Growth Estimate $=$ |  | $2.52 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.88 \%$ |  |
| Constant DCF $=$ |  | $6.30 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 237 | 6.32\% | \$3,646,943.19 |
| 238 | 6.32\% | \$3,877,594.21 |
| 239 | 6.32\% | \$4,122,832.77 |
| 240 | 6.32\% | \$4,383,581.44 |
| 241 | 6.32\% | \$4,660,821.17 |
| 242 | 6.32\% | \$4,955,594.93 |
| 243 | 6.32\% | \$5,269,011.67 |
| 244 | 6.32\% | \$5,602,250.46 |
| 245 | 6.32\% | \$5,956,564.94 |
| 246 | 6.32\% | \$6,333,288.06 |
| 247 | 6.32\% | \$6,733,837.03 |
| 248 | 6.32\% | \$7,159,718.74 |
| 249 | 6.32\% | \$7,612,535.35 |
| 250 | 6.32\% | \$8,093,990.36 |
| 251 | 6.32\% | \$8,605,895.01 |
| 252 | 6.32\% | \$9,150,175.07 |
| 253 | 6.32\% | \$9,728,878.15 |
| 254 | 6.32\% | \$10,344,181.32 |
| 255 | 6.32\% | \$10,998,399.35 |
| 256 | 6.32\% | \$11,693,993.42 |
| 257 | 6.32\% | \$12,433,580.36 |
| 258 | 6.32\% | \$13,219,942.49 |
| 259 | 6.32\% | \$14,056,038.12 |
| 260 | 6.32\% | \$14,945,012.64 |
| 261 | 6.32\% | \$15,890,210.38 |
| 262 | 6.32\% | \$16,895,187.17 |
| 263 | 6.32\% | \$17,963,723.75 |
| 264 | 6.32\% | \$19,099,839.95 |
| 265 | 6.32\% | \$20,307,809.86 |
| 266 | 6.32\% | \$21,592,177.86 |
| 267 | 6.32\% | \$22,957,775.74 |
| 268 | 6.32\% | \$24,409,740.90 |
| 269 | 6.32\% | \$25,953,535.64 |
| 270 | 6.32\% | \$27,594,967.72 |
| 271 | 6.32\% | \$29,340,212.21 |
| 272 | 6.32\% | \$31,195,834.75 |
| 273 | 6.32\% | \$33,168,816.18 |
| 274 | 6.32\% | \$35,266,578.87 |
| 275 | 6.32\% | \$37,497,014.63 |
| 276 | 6.32\% | \$39,868,514.35 |
| 277 | 6.32\% | \$42,389,999.65 |
| 278 | 6.32\% | \$45,070,956.34 |
| 279 | 6.32\% | \$47,921,470.22 |
| 280 | 6.32\% | \$50,952,264.93 |
| 281 | 6.32\% | \$54,174,742.33 |
| 282 | 6.32\% | \$57,601,025.41 |
| 283 | 6.32\% | \$61,244,003.85 |
| 284 | 6.32\% | \$65,117,382.57 |
| 285 | 6.32\% | \$69,235,733.23 |
| 286 | 6.32\% | \$73,614,549.09 |
| 287 | 6.32\% | \$78,270,303.28 |
| 288 | 6.32\% | \$83,220,510.77 |
| 289 | 6.32\% | \$88,483,794.28 |
| 290 | 6.32\% | \$94,079,954.29 |
| 291 | 6.32\% | \$100,030,043.60 |
| 292 | 6.32\% | \$106,356,446.47 |
| 293 | 6.32\% | \$113,082,962.87 |
| 294 | 6.32\% | \$120,234,897.98 |
| 295 | 6.32\% | \$127,839,157.42 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## ED Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 81.48 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 3.01 |
| DCF Growth Estimate $=$ |  | $2.52 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.88 \%$ |  |
| Constant DCF $=$ |  | $6.30 \%$ |


| YEAR | $\begin{aligned} & \text { GROWTH } \\ & \text { RATE } \\ & \hline \end{aligned}$ | DIVIDEND |
| :---: | :---: | :---: |
| 296 | 6.32\% | \$135,924,348.47 |
| 297 | 6.32\% | \$144,520,887.64 |
| 298 | 6.32\% | \$153,661,115.17 |
| 299 | 6.32\% | \$163,379,416.65 |
| 300 | 6.32\% | \$173,712,352.37 |
| 301 | 6.32\% | \$184,698,794.89 |
| 302 | 6.32\% | \$196,380,075.28 |
| 303 | 6.32\% | \$208,800,138.56 |
| 304 | 6.32\% | \$222,005,709.09 |
| 305 | 6.32\% | \$236,046,466.30 |
| 306 | 6.32\% | \$250,975,231.58 |
| 307 | 6.32\% | \$266,848,167.04 |
| 308 | 6.32\% | \$283,724,986.74 |
| 309 | 6.32\% | \$301,669,181.36 |
| 310 | 6.32\% | \$320,748,257.07 |
| 311 | 6.32\% | \$341,033,989.45 |
| 312 | 6.32\% | \$362,602,693.53 |
| 313 | 6.32\% | \$385,535,510.91 |
| 314 | 6.32\% | \$409,918,714.94 |
| 315 | 6.32\% | \$435,844,035.40 |
| 316 | 6.32\% | \$463,409,003.46 |
| 317 | 6.32\% | \$492,717,318.68 |
| 318 | 6.32\% | \$523,879,239.12 |
| 319 | 6.32\% | \$557,011,996.07 |
| 320 | 6.32\% | \$592,240,235.15 |
| 321 | 6.32\% | \$629,696,485.18 |
| 322 | 6.32\% | \$669,521,656.79 |
| 323 | 6.32\% | \$711,865,572.47 |
| 324 | 6.32\% | \$756,887,530.27 |
| 325 | 6.32\% | \$804,756,903.03 |
| 326 | 6.32\% | \$855,653,775.60 |
| 327 | 6.32\% | \$909,769,622.28 |
| 328 | 6.32\% | \$967,308,027.17 |
| 329 | 6.32\% | \$1,028,485,450.08 |
| 330 | 6.32\% | \$1,093,532,040.78 |
| 331 | 6.32\% | \$1,162,692,504.91 |
| 332 | 6.32\% | \$1,236,227,024.51 |
| 333 | 6.32\% | \$1,314,412,236.83 |
| 334 | 6.32\% | \$1,397,542,275.06 |
| 335 | 6.32\% | \$1,485,929,874.86 |
| 336 | 6.32\% | \$1,579,907,550.85 |
| 337 | 6.32\% | \$1,679,828,847.56 |
| 338 | 6.32\% | \$1,786,069,669.43 |
| 339 | 6.32\% | \$1,899,029,695.02 |
| 340 | 6.32\% | \$2,019,133,880.55 |
| 341 | 6.32\% | \$2,146,834,058.61 |
| 342 | 6.32\% | \$2,282,610,637.96 |
| 343 | 6.32\% | \$2,426,974,410.82 |
| 344 | 6.32\% | \$2,580,468,474.49 |
| 345 | 6.32\% | \$2,743,670,274.45 |
| 346 | 6.32\% | \$2,917,193,776.76 |
| 347 | 6.32\% | \$3,101,691,777.77 |
| 348 | 6.32\% | \$3,297,858,359.95 |
| 349 | 6.32\% | \$3,506,431,503.04 |
| 350 | 6.32\% | \$3,728,195,860.33 |
| 351 | 6.32\% | \$3,963,985,710.52 |
| 352 | 6.32\% | \$4,214,688,096.30 |
| 353 | 6.32\% | \$4,481,246,161.40 |
| 354 | 6.32\% | \$4,764,662,698.69 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## ED Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 81.48 |
| :--- | ---: | ---: |
| Annual Dividend $=$ | $\$$ | 3.01 |
| DCF Growth Estimate $=$ |  | $2.52 \%$ |
| GNP Growth Rate = | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.88 \%$ |  |
| Constant DCF $=$ |  | $6.30 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 355 | 6.32\% | \$5,066,003,922.70 |
| 356 | 6.32\% | \$5,386,403,480.76 |
| 357 | 6.32\% | \$5,727,066,717.72 |
| 358 | 6.32\% | \$6,089,275,210.51 |
| 359 | 6.32\% | \$6,474,391,589.44 |
| 360 | 6.32\% | \$6,883,864,664.39 |
| 361 | 6.32\% | \$7,319,234,875.28 |
| 362 | 6.32\% | \$7,782,140,087.19 |
| 363 | 6.32\% | \$8,274,321,752.01 |
| 364 | 6.32\% | \$8,797,631,459.82 |
| 365 | 6.32\% | \$9,354,037,904.56 |
| 366 | 6.32\% | \$9,945,634,290.28 |
| 367 | 6.32\% | \$10,574,646,205.75 |
| 368 | 6.32\% | \$11,243,439,997.19 |
| 369 | 6.32\% | \$11,954,531,670.45 |
| 370 | 6.32\% | \$12,710,596,356.24 |
| 371 | 6.32\% | \$13,514,478,373.96 |
| 372 | 6.32\% | \$14,369,201,932.11 |
| 373 | 6.32\% | \$15,277,982,505.30 |
| 374 | 6.32\% | \$16,244,238,930.96 |
| 375 | 6.32\% | \$17,271,606,270.95 |
| 376 | 6.32\% | \$18,363,949,486.74 |
| 377 | 6.32\% | \$19,525,377,979.40 |
| 378 | 6.32\% | \$20,760,261,049.16 |
| 379 | 6.32\% | \$22,073,244,332.79 |
| 380 | 6.32\% | \$23,469,267,280.47 |
| 381 | 6.32\% | \$24,953,581,738.04 |
| 382 | 6.32\% | \$26,531,771,704.50 |
| 383 | 6.32\% | \$28,209,774,338.98 |
| 384 | 6.32\% | \$29,993,902,296.44 |
| 385 | 6.32\% | \$31,890,867,475.87 |
| 386 | 6.32\% | \$33,907,806,270.47 |
| 387 | 6.32\% | \$36,052,306,414.87 |
| 388 | 6.32\% | \$38,332,435,530.15 |
| 389 | 6.32\% | \$40,756,771,474.32 |
| 390 | 6.32\% | \$43,334,434,612.26 |
| 391 | 6.32\% | \$46,075,122,126.58 |
| 392 | 6.32\% | \$48,989,144,498.46 |
| 393 | 6.32\% | \$52,087,464,295.76 |
| 394 | 6.32\% | \$55,381,737,414.24 |
| 395 | 6.32\% | \$58,884,356,927.12 |
| 396 | 6.32\% | \$62,608,499,707.86 |
| 397 | 6.32\% | \$66,568,176,001.66 |
| 398 | 6.32\% | \$70,778,282,132.06 |
| 399 | 6.32\% | \$75,254,656,541.00 |
| 400 | 6.32\% | \$80,014,139,373.10 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> WEC Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 90.98 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.49 |
| DCF Growth Estimate $=$ |  | $5.81 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.07 \%$ |  |
| Constant DCF = | $8.71 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 1 | 5.81\% | \$2.63 |
| 2 | 5.81\% | \$2.79 |
| 3 | 5.81\% | \$2.95 |
| 4 | 5.81\% | \$3.12 |
| 5 | 5.81\% | \$3.30 |
| 6 | 5.84\% | \$3.49 |
| 7 | 5.86\% | \$3.70 |
| 8 | 5.89\% | \$3.91 |
| 9 | 5.92\% | \$4.15 |
| 10 | 5.94\% | \$4.39 |
| 11 | 5.97\% | \$4.65 |
| 12 | 5.99\% | \$4.93 |
| 13 | 6.02\% | \$5.23 |
| 14 | 6.04\% | \$5.55 |
| 15 | 6.07\% | \$5.88 |
| 16 | 6.09\% | \$6.24 |
| 17 | 6.12\% | \$6.62 |
| 18 | 6.15\% | \$7.03 |
| 19 | 6.17\% | \$7.46 |
| 20 | 6.20\% | \$7.93 |
| 21 | 6.22\% | \$8.42 |
| 22 | 6.25\% | \$8.95 |
| 23 | 6.27\% | \$9.51 |
| 24 | 6.30\% | \$10.11 |
| 25 | 6.32\% | \$10.75 |
| 26 | 6.32\% | \$11.43 |
| 27 | 6.32\% | \$12.15 |
| 28 | 6.32\% | \$12.92 |
| 29 | 6.32\% | \$13.73 |
| 30 | 6.32\% | \$14.60 |
| 31 | 6.32\% | \$15.52 |
| 32 | 6.32\% | \$16.51 |
| 33 | 6.32\% | \$17.55 |
| 34 | 6.32\% | \$18.66 |
| 35 | 6.32\% | \$19.84 |
| 36 | 6.32\% | \$21.10 |
| 37 | 6.32\% | \$22.43 |
| 38 | 6.32\% | \$23.85 |
| 39 | 6.32\% | \$25.36 |
| 40 | 6.32\% | \$26.96 |
| 41 | 6.32\% | \$28.67 |
| 42 | 6.32\% | \$30.48 |
| 43 | 6.32\% | \$32.41 |
| 44 | 6.32\% | \$34.46 |
| 45 | 6.32\% | \$36.63 |
| 46 | 6.32\% | \$38.95 |
| 47 | 6.32\% | \$41.42 |
| 48 | 6.32\% | \$44.03 |
| 49 | 6.32\% | \$46.82 |
| 50 | 6.32\% | \$49.78 |
| 51 | 6.32\% | \$52.93 |
| 52 | 6.32\% | \$56.28 |
| 53 | 6.32\% | \$59.84 |
| 54 | 6.32\% | \$63.62 |
| 55 | 6.32\% | \$67.64 |
| 56 | 6.32\% | \$71.92 |
| 57 | 6.32\% | \$76.47 |
| 58 | 6.32\% | \$81.31 |
| 59 | 6.32\% | \$86.45 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## WEC Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 90.98 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.49 |
| DCF Growth Estimate $=$ |  | $5.81 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.07 \%$ |  |
| Constant DCF = | $8.71 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 60 | 6.32\% | \$91.92 |
| 61 | 6.32\% | \$97.73 |
| 62 | 6.32\% | \$103.91 |
| 63 | 6.32\% | \$110.48 |
| 64 | 6.32\% | \$117.47 |
| 65 | 6.32\% | \$124.90 |
| 66 | 6.32\% | \$132.80 |
| 67 | 6.32\% | \$141.20 |
| 68 | 6.32\% | \$150.13 |
| 69 | 6.32\% | \$159.62 |
| 70 | 6.32\% | \$169.72 |
| 71 | 6.32\% | \$180.45 |
| 72 | 6.32\% | \$191.86 |
| 73 | 6.32\% | \$204.00 |
| 74 | 6.32\% | \$216.90 |
| 75 | 6.32\% | \$230.62 |
| 76 | 6.32\% | \$245.20 |
| 77 | 6.32\% | \$260.71 |
| 78 | 6.32\% | \$277.20 |
| 79 | 6.32\% | \$294.73 |
| 80 | 6.32\% | \$313.37 |
| 81 | 6.32\% | \$333.19 |
| 82 | 6.32\% | \$354.27 |
| 83 | 6.32\% | \$376.67 |
| 84 | 6.32\% | \$400.49 |
| 85 | 6.32\% | \$425.82 |
| 86 | 6.32\% | \$452.75 |
| 87 | 6.32\% | \$481.39 |
| 88 | 6.32\% | \$511.83 |
| 89 | 6.32\% | \$544.20 |
| 90 | 6.32\% | \$578.62 |
| 91 | 6.32\% | \$615.22 |
| 92 | 6.32\% | \$654.13 |
| 93 | 6.32\% | \$695.50 |
| 94 | 6.32\% | \$739.48 |
| 95 | 6.32\% | \$786.25 |
| 96 | 6.32\% | \$835.98 |
| 97 | 6.32\% | \$888.85 |
| 98 | 6.32\% | \$945.07 |
| 99 | 6.32\% | \$1,004.84 |
| 100 | 6.32\% | \$1,068.39 |
| 101 | 6.32\% | \$1,135.96 |
| 102 | 6.32\% | \$1,207.80 |
| 103 | 6.32\% | \$1,284.19 |
| 104 | 6.32\% | \$1,365.41 |
| 105 | 6.32\% | \$1,451.76 |
| 106 | 6.32\% | \$1,543.58 |
| 107 | 6.32\% | \$1,641.20 |
| 108 | 6.32\% | \$1,745.00 |
| 109 | 6.32\% | \$1,855.37 |
| 110 | 6.32\% | \$1,972.71 |
| 111 | 6.32\% | \$2,097.47 |
| 112 | 6.32\% | \$2,230.13 |
| 113 | 6.32\% | \$2,371.17 |
| 114 | 6.32\% | \$2,521.14 |
| 115 | 6.32\% | \$2,680.58 |
| 116 | 6.32\% | \$2,850.12 |
| 117 | 6.32\% | \$3,030.37 |
| 118 | 6.32\% | \$3,222.03 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## WEC Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 90.98 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.49 |
| DCF Growth Estimate $=$ |  | $5.81 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.07 \%$ |  |
| Constant DCF = | $8.71 \%$ |  |


| YEAR | GROWTH <br> RATE | DIVIDEND |
| :---: | :---: | :---: |
| 119 | 6.32\% | \$3,425.81 |
| 120 | 6.32\% | \$3,642.47 |
| 121 | 6.32\% | \$3,872.84 |
| 122 | 6.32\% | \$4,117.78 |
| 123 | 6.32\% | \$4,378.21 |
| 124 | 6.32\% | \$4,655.11 |
| 125 | 6.32\% | \$4,949.52 |
| 126 | 6.32\% | \$5,262.55 |
| 127 | 6.32\% | \$5,595.38 |
| 128 | 6.32\% | \$5,949.26 |
| 129 | 6.32\% | \$6,325.53 |
| 130 | 6.32\% | \$6,725.58 |
| 131 | 6.32\% | \$7,150.94 |
| 132 | 6.32\% | \$7,603.20 |
| 133 | 6.32\% | \$8,084.07 |
| 134 | 6.32\% | \$8,595.35 |
| 135 | 6.32\% | \$9,138.96 |
| 136 | 6.32\% | \$9,716.95 |
| 137 | 6.32\% | \$10,331.50 |
| 138 | 6.32\% | \$10,984.92 |
| 139 | 6.32\% | \$11,679.66 |
| 140 | 6.32\% | \$12,418.34 |
| 141 | 6.32\% | \$13,203.74 |
| 142 | 6.32\% | \$14,038.81 |
| 143 | 6.32\% | \$14,926.69 |
| 144 | 6.32\% | \$15,870.73 |
| 145 | 6.32\% | \$16,874.48 |
| 146 | 6.32\% | \$17,941.71 |
| 147 | 6.32\% | \$19,076.43 |
| 148 | 6.32\% | \$20,282.92 |
| 149 | 6.32\% | \$21,565.71 |
| 150 | 6.32\% | \$22,929.64 |
| 151 | 6.32\% | \$24,379.82 |
| 152 | 6.32\% | \$25,921.72 |
| 153 | 6.32\% | \$27,561.15 |
| 154 | 6.32\% | \$29,304.25 |
| 155 | 6.32\% | \$31,157.60 |
| 156 | 6.32\% | \$33,128.16 |
| 157 | 6.32\% | \$35,223.35 |
| 158 | 6.32\% | \$37,451.06 |
| 159 | 6.32\% | \$39,819.65 |
| 160 | 6.32\% | \$42,338.04 |
| 161 | 6.32\% | \$45,015.71 |
| 162 | 6.32\% | \$47,862.73 |
| 163 | 6.32\% | \$50,889.81 |
| 164 | 6.32\% | \$54,108.34 |
| 165 | 6.32\% | \$57,530.42 |
| 166 | 6.32\% | \$61,168.94 |
| 167 | 6.32\% | \$65,037.57 |
| 168 | 6.32\% | \$69,150.87 |
| 169 | 6.32\% | \$73,524.32 |
| 170 | 6.32\% | \$78,174.37 |
| 171 | 6.32\% | \$83,118.51 |
| 172 | 6.32\% | \$88,375.34 |
| 173 | 6.32\% | \$93,964.64 |
| 174 | 6.32\% | \$99,907.44 |
| 175 | 6.32\% | \$106,226.09 |
| 176 | 6.32\% | \$112,944.36 |
| 177 | 6.32\% | \$120,087.53 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> WEC Non-Constant DCF Calculation 

| Stock Price = | $\$$ | 90.98 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.49 |
| DCF Growth Estimate $=$ |  | $5.81 \%$ |
| GNP Growth Rate = |  | $6.32 \%$ |
| Non-Constant DCF $=$ | $9.07 \%$ |  |
| Constant DCF $=$ | $8.71 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 178 | 6.32\% | \$127,682.47 |
| 179 | 6.32\% | \$135,757.75 |
| 180 | 6.32\% | \$144,343.75 |
| 181 | 6.32\% | \$153,472.78 |
| 182 | 6.32\% | \$163,179.17 |
| 183 | 6.32\% | \$173,499.44 |
| 184 | 6.32\% | \$184,472.41 |
| 185 | 6.32\% | \$196,139.38 |
| 186 | 6.32\% | \$208,544.22 |
| 187 | 6.32\% | \$221,733.60 |
| 188 | 6.32\% | \$235,757.15 |
| 189 | 6.32\% | \$250,667.62 |
| 190 | 6.32\% | \$266,521.10 |
| 191 | 6.32\% | \$283,377.23 |
| 192 | 6.32\% | \$301,299.43 |
| 193 | 6.32\% | \$320,355.12 |
| 194 | 6.32\% | \$340,615.99 |
| 195 | 6.32\% | \$362,158.26 |
| 196 | 6.32\% | \$385,062.97 |
| 197 | 6.32\% | \$409,416.29 |
| 198 | 6.32\% | \$435,309.83 |
| 199 | 6.32\% | \$462,841.01 |
| 200 | 6.32\% | \$492,113.40 |
| 201 | 6.32\% | \$523,237.13 |
| 202 | 6.32\% | \$556,329.28 |
| 203 | 6.32\% | \$591,514.34 |
| 204 | 6.32\% | \$628,924.68 |
| 205 | 6.32\% | \$668,701.04 |
| 206 | 6.32\% | \$710,993.05 |
| 207 | 6.32\% | \$755,959.83 |
| 208 | 6.32\% | \$803,770.53 |
| 209 | 6.32\% | \$854,605.02 |
| 210 | 6.32\% | \$908,654.54 |
| 211 | 6.32\% | \$966,122.42 |
| 212 | 6.32\% | \$1,027,224.86 |
| 213 | 6.32\% | \$1,092,191.72 |
| 214 | 6.32\% | \$1,161,267.42 |
| 215 | 6.32\% | \$1,234,711.81 |
| 216 | 6.32\% | \$1,312,801.19 |
| 217 | 6.32\% | \$1,395,829.33 |
| 218 | 6.32\% | \$1,484,108.60 |
| 219 | 6.32\% | \$1,577,971.09 |
| 220 | 6.32\% | \$1,677,769.91 |
| 221 | 6.32\% | \$1,783,880.52 |
| 222 | 6.32\% | \$1,896,702.09 |
| 223 | 6.32\% | \$2,016,659.07 |
| 224 | 6.32\% | \$2,144,202.73 |
| 225 | 6.32\% | \$2,279,812.89 |
| 226 | 6.32\% | \$2,423,999.72 |
| 227 | 6.32\% | \$2,577,305.65 |
| 228 | 6.32\% | \$2,740,307.41 |
| 229 | 6.32\% | \$2,913,618.23 |
| 230 | 6.32\% | \$3,097,890.10 |
| 231 | 6.32\% | \$3,293,816.24 |
| 232 | 6.32\% | \$3,502,133.74 |
| 233 | 6.32\% | \$3,723,626.28 |
| 234 | 6.32\% | \$3,959,127.13 |
| 235 | 6.32\% | \$4,209,522.24 |
| 236 | 6.32\% | \$4,475,753.59 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> WEC Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 90.98 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.49 |
| DCF Growth Estimate $=$ |  | $5.81 \%$ |
| GNP Growth Rate = |  | $6.32 \%$ |
| Non-Constant DCF $=$ | $9.07 \%$ |  |
| Constant DCF $=$ | $8.71 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 237 | 6.32\% | \$4,758,822.75 |
| 238 | 6.32\% | \$5,059,794.62 |
| 239 | 6.32\% | \$5,379,801.47 |
| 240 | 6.32\% | \$5,720,047.16 |
| 241 | 6.32\% | \$6,081,811.71 |
| 242 | 6.32\% | \$6,466,456.06 |
| 243 | 6.32\% | \$6,875,427.25 |
| 244 | 6.32\% | \$7,310,263.83 |
| 245 | 6.32\% | \$7,772,601.67 |
| 246 | 6.32\% | \$8,264,180.08 |
| 247 | 6.32\% | \$8,786,848.38 |
| 248 | 6.32\% | \$9,342,572.84 |
| 249 | 6.32\% | \$9,933,444.12 |
| 250 | 6.32\% | \$10,561,685.07 |
| 251 | 6.32\% | \$11,229,659.13 |
| 252 | 6.32\% | \$11,939,879.24 |
| 253 | 6.32\% | \$12,695,017.23 |
| 254 | 6.32\% | \$13,497,913.94 |
| 255 | 6.32\% | \$14,351,589.88 |
| 256 | 6.32\% | \$15,259,256.58 |
| 257 | 6.32\% | \$16,224,328.69 |
| 258 | 6.32\% | \$17,250,436.80 |
| 259 | 6.32\% | \$18,341,441.16 |
| 260 | 6.32\% | \$19,501,446.11 |
| 261 | 6.32\% | \$20,734,815.61 |
| 262 | 6.32\% | \$22,046,189.59 |
| 263 | 6.32\% | \$23,440,501.46 |
| 264 | 6.32\% | \$24,922,996.62 |
| 265 | 6.32\% | \$26,499,252.23 |
| 266 | 6.32\% | \$28,175,198.17 |
| 267 | 6.32\% | \$29,957,139.36 |
| 268 | 6.32\% | \$31,851,779.47 |
| 269 | 6.32\% | \$33,866,246.14 |
| 270 | 6.32\% | \$36,008,117.81 |
| 271 | 6.32\% | \$38,285,452.22 |
| 272 | 6.32\% | \$40,706,816.70 |
| 273 | 6.32\% | \$43,281,320.45 |
| 274 | 6.32\% | \$46,018,648.76 |
| 275 | 6.32\% | \$48,929,099.47 |
| 276 | 6.32\% | \$52,023,621.72 |
| 277 | 6.32\% | \$55,313,857.11 |
| 278 | 6.32\% | \$58,812,183.53 |
| 279 | 6.32\% | \$62,531,761.70 |
| 280 | 6.32\% | \$66,486,584.70 |
| 281 | 6.32\% | \$70,691,530.58 |
| 282 | 6.32\% | \$75,162,418.39 |
| 283 | 6.32\% | \$79,916,067.62 |
| 284 | 6.32\% | \$84,970,361.52 |
| 285 | 6.32\% | \$90,344,314.38 |
| 286 | 6.32\% | \$96,058,143.04 |
| 287 | 6.32\% | \$102,133,342.95 |
| 288 | 6.32\% | \$108,592,769.05 |
| 289 | 6.32\% | \$115,460,721.73 |
| 290 | 6.32\% | \$122,763,038.26 |
| 291 | 6.32\% | \$130,527,190.01 |
| 292 | 6.32\% | \$138,782,385.75 |
| 293 | 6.32\% | \$147,559,681.57 |
| 294 | 6.32\% | \$156,892,097.71 |
| 295 | 6.32\% | \$166,814,742.76 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> WEC Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 90.98 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.49 |
| DCF Growth Estimate $=$ |  | $5.81 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.07 \%$ |  |
| Constant DCF = | $8.71 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 296 | 6.32\% | \$177,364,945.78 |
| 297 | 6.32\% | \$188,582,396.67 |
| 298 | 6.32\% | \$200,509,295.56 |
| 299 | 6.32\% | \$213,190,511.50 |
| 300 | 6.32\% | \$226,673,751.29 |
| 301 | 6.32\% | \$241,009,738.95 |
| 302 | 6.32\% | \$256,252,406.55 |
| 303 | 6.32\% | \$272,459,097.08 |
| 304 | 6.32\% | \$289,690,780.20 |
| 305 | 6.32\% | \$308,012,281.60 |
| 306 | 6.32\% | \$327,492,526.86 |
| 307 | 6.32\% | \$348,204,800.77 |
| 308 | 6.32\% | \$370,227,023.02 |
| 309 | 6.32\% | \$393,642,041.32 |
| 310 | 6.32\% | \$418,537,943.10 |
| 311 | 6.32\% | \$445,008,386.87 |
| 312 | 6.32\% | \$473,152,954.59 |
| 313 | 6.32\% | \$503,077,526.28 |
| 314 | 6.32\% | \$534,894,678.33 |
| 315 | 6.32\% | \$568,724,107.04 |
| 316 | 6.32\% | \$604,693,078.90 |
| 317 | 6.32\% | \$642,936,909.38 |
| 318 | 6.32\% | \$683,599,471.98 |
| 319 | 6.32\% | \$726,833,739.47 |
| 320 | 6.32\% | \$772,802,359.40 |
| 321 | 6.32\% | \$821,678,265.97 |
| 322 | 6.32\% | \$873,645,330.61 |
| 323 | 6.32\% | \$928,899,053.68 |
| 324 | 6.32\% | \$987,647,299.99 |
| 325 | 6.32\% | \$1,050,111,080.77 |
| 326 | 6.32\% | \$1,116,525,385.09 |
| 327 | 6.32\% | \$1,187,140,063.91 |
| 328 | 6.32\% | \$1,262,220,770.05 |
| 329 | 6.32\% | \$1,342,049,957.53 |
| 330 | 6.32\% | \$1,426,927,944.17 |
| 331 | 6.32\% | \$1,517,174,041.42 |
| 332 | 6.32\% | \$1,613,127,755.59 |
| 333 | 6.32\% | \$1,715,150,065.06 |
| 334 | 6.32\% | \$1,823,624,778.31 |
| 335 | 6.32\% | \$1,938,959,977.80 |
| 336 | 6.32\% | \$2,061,589,555.17 |
| 337 | 6.32\% | \$2,191,974,843.54 |
| 338 | 6.32\% | \$2,330,606,353.09 |
| 339 | 6.32\% | \$2,478,005,616.28 |
| 340 | 6.32\% | \$2,634,727,149.94 |
| 341 | 6.32\% | \$2,801,360,541.33 |
| 342 | 6.32\% | \$2,978,532,666.17 |
| 343 | 6.32\% | \$3,166,910,046.93 |
| 344 | 6.32\% | \$3,367,201,360.35 |
| 345 | 6.32\% | \$3,580,160,103.41 |
| 346 | 6.32\% | \$3,806,587,428.07 |
| 347 | 6.32\% | \$4,047,335,155.13 |
| 348 | 6.32\% | \$4,303,308,978.83 |
| 349 | 6.32\% | \$4,575,471,874.09 |
| 350 | 6.32\% | \$4,864,847,719.19 |
| 351 | 6.32\% | \$5,172,525,147.59 |
| 352 | 6.32\% | \$5,499,661,643.46 |
| 353 | 6.32\% | \$5,847,487,896.05 |
| 354 | 6.32\% | \$6,217,312,429.59 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> WEC Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 90.98 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 2.49 |
| DCF Growth Estimate $=$ |  | $5.81 \%$ |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $9.07 \%$ |  |
| Constant DCF = | $8.71 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 355 | 6.32\% | \$6,610,526,525.98 |
| 356 | 6.32\% | \$7,028,609,458.75 |
| 357 | 6.32\% | \$7,473,134,058.16 |
| 358 | 6.32\% | \$7,945,772,628.14 |
| 359 | 6.32\% | \$8,448,303,237.54 |
| 360 | 6.32\% | \$8,982,616,409.21 |
| 361 | 6.32\% | \$9,550,722,232.18 |
| 362 | 6.32\% | \$10,154,757,923.63 |
| 363 | 6.32\% | \$10,796,995,869.07 |
| 364 | 6.32\% | \$11,479,852,171.11 |
| 365 | 6.32\% | \$12,205,895,738.85 |
| 366 | 6.32\% | \$12,977,857,952.08 |
| 367 | 6.32\% | \$13,798,642,936.82 |
| 368 | 6.32\% | \$14,671,338,490.59 |
| 369 | 6.32\% | \$15,599,227,698.78 |
| 370 | 6.32\% | \$16,585,801,285.57 |
| 371 | 6.32\% | \$17,634,770,746.12 |
| 372 | 6.32\% | \$18,750,082,309.18 |
| 373 | 6.32\% | \$19,935,931,782.86 |
| 374 | 6.32\% | \$21,196,780,339.26 |
| 375 | 6.32\% | \$22,537,371,297.45 |
| 376 | 6.32\% | \$23,962,747,967.83 |
| 377 | 6.32\% | \$25,478,272,625.11 |
| 378 | 6.32\% | \$27,089,646,681.21 |
| 379 | 6.32\% | \$28,802,932,134.01 |
| 380 | 6.32\% | \$30,624,574,372.61 |
| 381 | 6.32\% | \$32,561,426,424.92 |
| 382 | 6.32\% | \$34,620,774,738.78 |
| 383 | 6.32\% | \$36,810,366,593.66 |
| 384 | 6.32\% | \$39,138,439,245.89 |
| 385 | 6.32\% | \$41,613,750,917.33 |
| 386 | 6.32\% | \$44,245,613,743.82 |
| 387 | 6.32\% | \$47,043,928,807.49 |
| 388 | 6.32\% | \$50,019,223,384.67 |
| 389 | 6.32\% | \$53,182,690,549.58 |
| 390 | 6.32\% | \$56,546,231,282.75 |
| 391 | 6.32\% | \$60,122,499,242.51 |
| 392 | 6.32\% | \$63,924,948,368.20 |
| 393 | 6.32\% | \$67,967,883,493.89 |
| 394 | 6.32\% | \$72,266,514,163.32 |
| 395 | 6.32\% | \$76,837,011,848.19 |
| 396 | 6.32\% | \$81,696,570,785.42 |
| 397 | 6.32\% | \$86,863,472,661.89 |
| 398 | 6.32\% | \$92,357,155,390.30 |
| 399 | 6.32\% | \$98,198,286,234.64 |
| 400 | 6.32\% | \$104,408,839,560.62 |

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> XEL Non-Constant DCF Calculation 

| Stock Price $=$ | $\$$ | 63.27 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 1.67 |
| DCF Growth Estimate $=$ | $5.56 \%$ |  |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.90 \%$ |  |
| Constant DCF $=$ |  | $8.34 \%$ |


| YEAR | GROWTH <br> RATE | DIVIDEND |
| :---: | :---: | :---: |
| 1 | 5.56\% | \$1.76 |
| 2 | 5.56\% | \$1.86 |
| 3 | 5.56\% | \$1.96 |
| 4 | 5.56\% | \$2.07 |
| 5 | 5.56\% | \$2.19 |
| 6 | 5.60\% | \$2.31 |
| 7 | 5.63\% | \$2.44 |
| 8 | 5.67\% | \$2.58 |
| 9 | 5.71\% | \$2.73 |
| 10 | 5.75\% | \$2.88 |
| 11 | 5.79\% | \$3.05 |
| 12 | 5.83\% | \$3.23 |
| 13 | 5.86\% | \$3.42 |
| 14 | 5.90\% | \$3.62 |
| 15 | 5.94\% | \$3.83 |
| 16 | 5.98\% | \$4.06 |
| 17 | 6.02\% | \$4.31 |
| 18 | 6.06\% | \$4.57 |
| 19 | 6.09\% | \$4.85 |
| 20 | 6.13\% | \$5.15 |
| 21 | 6.17\% | \$5.46 |
| 22 | 6.21\% | \$5.80 |
| 23 | 6.25\% | \$6.16 |
| 24 | 6.29\% | \$6.55 |
| 25 | 6.32\% | \$6.97 |
| 26 | 6.32\% | \$7.41 |
| 27 | 6.32\% | \$7.88 |
| 28 | 6.32\% | \$8.37 |
| 29 | 6.32\% | \$8.90 |
| 30 | 6.32\% | \$9.47 |
| 31 | 6.32\% | \$10.07 |
| 32 | 6.32\% | \$10.70 |
| 33 | 6.32\% | \$11.38 |
| 34 | 6.32\% | \$12.10 |
| 35 | 6.32\% | \$12.86 |
| 36 | 6.32\% | \$13.68 |
| 37 | 6.32\% | \$14.54 |
| 38 | 6.32\% | \$15.46 |
| 39 | 6.32\% | \$16.44 |
| 40 | 6.32\% | \$17.48 |
| 41 | 6.32\% | \$18.58 |
| 42 | 6.32\% | \$19.76 |
| 43 | 6.32\% | \$21.01 |
| 44 | 6.32\% | \$22.34 |
| 45 | 6.32\% | \$23.75 |
| 46 | 6.32\% | \$25.25 |
| 47 | 6.32\% | \$26.85 |
| 48 | 6.32\% | \$28.55 |
| 49 | 6.32\% | \$30.35 |
| 50 | 6.32\% | \$32.27 |
| 51 | 6.32\% | \$34.31 |
| 52 | 6.32\% | \$36.49 |
| 53 | 6.32\% | \$38.79 |
| 54 | 6.32\% | \$41.25 |
| 55 | 6.32\% | \$43.85 |
| 56 | 6.32\% | \$46.63 |
| 57 | 6.32\% | \$49.58 |
| 58 | 6.32\% | \$52.71 |
| 59 | 6.32\% | \$56.05 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## XEL Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 63.27 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 1.67 |
| DCF Growth Estimate $=$ |  | $5.56 \%$ |
| GNP Growth Rate $=$ |  | $6.32 \%$ |
| Non-Constant DCF $=$ | $8.90 \%$ |  |
| Constant DCF $=$ | $8.34 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 60 | 6.32\% | \$59.59 |
| 61 | 6.32\% | \$63.36 |
| 62 | 6.32\% | \$67.37 |
| 63 | 6.32\% | \$71.63 |
| 64 | 6.32\% | \$76.16 |
| 65 | 6.32\% | \$80.97 |
| 66 | 6.32\% | \$86.10 |
| 67 | 6.32\% | \$91.54 |
| 68 | 6.32\% | \$97.33 |
| 69 | 6.32\% | \$103.49 |
| 70 | 6.32\% | \$110.03 |
| 71 | 6.32\% | \$116.99 |
| 72 | 6.32\% | \$124.39 |
| 73 | 6.32\% | \$132.26 |
| 74 | 6.32\% | \$140.62 |
| 75 | 6.32\% | \$149.51 |
| 76 | 6.32\% | \$158.97 |
| 77 | 6.32\% | \$169.02 |
| 78 | 6.32\% | \$179.71 |
| 79 | 6.32\% | \$191.08 |
| 80 | 6.32\% | \$203.17 |
| 81 | 6.32\% | \$216.02 |
| 82 | 6.32\% | \$229.68 |
| 83 | 6.32\% | \$244.20 |
| 84 | 6.32\% | \$259.65 |
| 85 | 6.32\% | \$276.07 |
| 86 | 6.32\% | \$293.53 |
| 87 | 6.32\% | \$312.09 |
| 88 | 6.32\% | \$331.83 |
| 89 | 6.32\% | \$352.82 |
| 90 | 6.32\% | \$375.13 |
| 91 | 6.32\% | \$398.86 |
| 92 | 6.32\% | \$424.08 |
| 93 | 6.32\% | \$450.90 |
| 94 | 6.32\% | \$479.42 |
| 95 | 6.32\% | \$509.74 |
| 96 | 6.32\% | \$541.98 |
| 97 | 6.32\% | \$576.26 |
| 98 | 6.32\% | \$612.70 |
| 99 | 6.32\% | \$651.46 |
| 100 | 6.32\% | \$692.66 |
| 101 | 6.32\% | \$736.46 |
| 102 | 6.32\% | \$783.04 |
| 103 | 6.32\% | \$832.56 |
| 104 | 6.32\% | \$885.22 |
| 105 | 6.32\% | \$941.21 |
| 106 | 6.32\% | \$1,000.73 |
| 107 | 6.32\% | \$1,064.02 |
| 108 | 6.32\% | \$1,131.32 |
| 109 | 6.32\% | \$1,202.87 |
| 110 | 6.32\% | \$1,278.94 |
| 111 | 6.32\% | \$1,359.83 |
| 112 | 6.32\% | \$1,445.83 |
| 113 | 6.32\% | \$1,537.28 |
| 114 | 6.32\% | \$1,634.50 |
| 115 | 6.32\% | \$1,737.87 |
| 116 | 6.32\% | \$1,847.79 |
| 117 | 6.32\% | \$1,964.65 |
| 118 | 6.32\% | \$2,088.90 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## XEL Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 63.27 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 1.67 |
| DCF Growth Estimate $=$ | $5.56 \%$ |  |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.90 \%$ |  |
| Constant DCF $=$ |  | $8.34 \%$ |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 119 | 6.32\% | \$2,221.02 |
| 120 | 6.32\% | \$2,361.48 |
| 121 | 6.32\% | \$2,510.84 |
| 122 | 6.32\% | \$2,669.64 |
| 123 | 6.32\% | \$2,838.48 |
| 124 | 6.32\% | \$3,018.00 |
| 125 | 6.32\% | \$3,208.87 |
| 126 | 6.32\% | \$3,411.81 |
| 127 | 6.32\% | \$3,627.59 |
| 128 | 6.32\% | \$3,857.02 |
| 129 | 6.32\% | \$4,100.96 |
| 130 | 6.32\% | \$4,360.32 |
| 131 | 6.32\% | \$4,636.09 |
| 132 | 6.32\% | \$4,929.30 |
| 133 | 6.32\% | \$5,241.06 |
| 134 | 6.32\% | \$5,572.53 |
| 135 | 6.32\% | \$5,924.96 |
| 136 | 6.32\% | \$6,299.69 |
| 137 | 6.32\% | \$6,698.11 |
| 138 | 6.32\% | \$7,121.73 |
| 139 | 6.32\% | \$7,572.15 |
| 140 | 6.32\% | \$8,051.05 |
| 141 | 6.32\% | \$8,560.24 |
| 142 | 6.32\% | \$9,101.63 |
| 143 | 6.32\% | \$9,677.26 |
| 144 | 6.32\% | \$10,289.30 |
| 145 | 6.32\% | \$10,940.05 |
| 146 | 6.32\% | \$11,631.95 |
| 147 | 6.32\% | \$12,367.61 |
| 148 | 6.32\% | \$13,149.80 |
| 149 | 6.32\% | \$13,981.46 |
| 150 | 6.32\% | \$14,865.72 |
| 151 | 6.32\% | \$15,805.90 |
| 152 | 6.32\% | \$16,805.55 |
| 153 | 6.32\% | \$17,868.42 |
| 154 | 6.32\% | \$18,998.50 |
| 155 | 6.32\% | \$20,200.07 |
| 156 | 6.32\% | \$21,477.62 |
| 157 | 6.32\% | \$22,835.97 |
| 158 | 6.32\% | \$24,280.23 |
| 159 | 6.32\% | \$25,815.84 |
| 160 | 6.32\% | \$27,448.56 |
| 161 | 6.32\% | \$29,184.55 |
| 162 | 6.32\% | \$31,030.32 |
| 163 | 6.32\% | \$32,992.84 |
| 164 | 6.32\% | \$35,079.47 |
| 165 | 6.32\% | \$37,298.07 |
| 166 | 6.32\% | \$39,656.99 |
| 167 | 6.32\% | \$42,165.10 |
| 168 | 6.32\% | \$44,831.83 |
| 169 | 6.32\% | \$47,667.22 |
| 170 | 6.32\% | \$50,681.94 |
| 171 | 6.32\% | \$53,887.32 |
| 172 | 6.32\% | \$57,295.42 |
| 173 | 6.32\% | \$60,919.07 |
| 174 | 6.32\% | \$64,771.90 |
| 175 | 6.32\% | \$68,868.40 |
| 176 | 6.32\% | \$73,223.98 |
| 177 | 6.32\% | \$77,855.04 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## XEL Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 63.27 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 1.67 |
| DCF Growth Estimate $=$ |  | $5.56 \%$ |
| GNP Growth Rate $=$ |  | $6.32 \%$ |
| Non-Constant DCF $=$ | $8.90 \%$ |  |
| Constant DCF $=$ | $8.34 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 178 | 6.32\% | \$82,778.98 |
| 179 | 6.32\% | \$88,014.34 |
| 180 | 6.32\% | \$93,580.81 |
| 181 | 6.32\% | \$99,499.33 |
| 182 | 6.32\% | \$105,792.17 |
| 183 | 6.32\% | \$112,483.00 |
| 184 | 6.32\% | \$119,596.99 |
| 185 | 6.32\% | \$127,160.90 |
| 186 | 6.32\% | \$135,203.19 |
| 187 | 6.32\% | \$143,754.12 |
| 188 | 6.32\% | \$152,845.86 |
| 189 | 6.32\% | \$162,512.60 |
| 190 | 6.32\% | \$172,790.71 |
| 191 | 6.32\% | \$183,718.87 |
| 192 | 6.32\% | \$195,338.17 |
| 193 | 6.32\% | \$207,692.34 |
| 194 | 6.32\% | \$220,827.85 |
| 195 | 6.32\% | \$234,794.11 |
| 196 | 6.32\% | \$249,643.67 |
| 197 | 6.32\% | \$265,432.39 |
| 198 | 6.32\% | \$282,219.67 |
| 199 | 6.32\% | \$300,068.66 |
| 200 | 6.32\% | \$319,046.51 |
| 201 | 6.32\% | \$339,224.62 |
| 202 | 6.32\% | \$360,678.89 |
| 203 | 6.32\% | \$383,490.03 |
| 204 | 6.32\% | \$407,743.87 |
| 205 | 6.32\% | \$433,531.64 |
| 206 | 6.32\% | \$460,950.36 |
| 207 | 6.32\% | \$490,103.18 |
| 208 | 6.32\% | \$521,099.77 |
| 209 | 6.32\% | \$554,056.74 |
| 210 | 6.32\% | \$589,098.07 |
| 211 | 6.32\% | \$626,355.60 |
| 212 | 6.32\% | \$665,969.47 |
| 213 | 6.32\% | \$708,088.73 |
| 214 | 6.32\% | \$752,871.82 |
| 215 | 6.32\% | \$800,487.22 |
| 216 | 6.32\% | \$851,114.06 |
| 217 | 6.32\% | \$904,942.79 |
| 218 | 6.32\% | \$962,175.92 |
| 219 | 6.32\% | \$1,023,028.77 |
| 220 | 6.32\% | \$1,087,730.25 |
| 221 | 6.32\% | \$1,156,523.78 |
| 222 | 6.32\% | \$1,229,668.16 |
| 223 | 6.32\% | \$1,307,438.55 |
| 224 | 6.32\% | \$1,390,127.54 |
| 225 | 6.32\% | \$1,478,046.20 |
| 226 | 6.32\% | \$1,571,525.27 |
| 227 | 6.32\% | \$1,670,916.43 |
| 228 | 6.32\% | \$1,776,593.58 |
| 229 | 6.32\% | \$1,888,954.29 |
| 230 | 6.32\% | \$2,008,421.26 |
| 231 | 6.32\% | \$2,135,443.92 |
| 232 | 6.32\% | \$2,270,500.13 |
| 233 | 6.32\% | \$2,414,097.97 |
| 234 | 6.32\% | \$2,566,777.66 |
| 235 | 6.32\% | \$2,729,113.59 |
| 236 | 6.32\% | \$2,901,716.45 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## XEL Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 63.27 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 1.67 |
| DCF Growth Estimate $=$ | $5.56 \%$ |  |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.90 \%$ |  |
| Constant DCF $=$ |  | $8.34 \%$ |


| YEAR | GROWTH <br> RATE | DIVIDEND |
| :---: | :---: | :---: |
| 237 | 6.32\% | \$3,085,235.59 |
| 238 | 6.32\% | \$3,280,361.40 |
| 239 | 6.32\% | \$3,487,827.95 |
| 240 | 6.32\% | \$3,708,415.72 |
| 241 | 6.32\% | \$3,942,954.58 |
| 242 | 6.32\% | \$4,192,326.85 |
| 243 | 6.32\% | \$4,457,470.68 |
| 244 | 6.32\% | \$4,739,383.53 |
| 245 | 6.32\% | \$5,039,125.97 |
| 246 | 6.32\% | \$5,357,825.64 |
| 247 | 6.32\% | \$5,696,681.47 |
| 248 | 6.32\% | \$6,056,968.24 |
| 249 | 6.32\% | \$6,440,041.37 |
| 250 | 6.32\% | \$6,847,341.96 |
| 251 | 6.32\% | \$7,280,402.29 |
| 252 | 6.32\% | \$7,740,851.54 |
| 253 | 6.32\% | \$8,230,421.91 |
| 254 | 6.32\% | \$8,750,955.17 |
| 255 | 6.32\% | \$9,304,409.57 |
| 256 | 6.32\% | \$9,892,867.21 |
| 257 | 6.32\% | \$10,518,541.87 |
| 258 | 6.32\% | \$11,183,787.34 |
| 259 | 6.32\% | \$11,891,106.28 |
| 260 | 6.32\% | \$12,643,159.62 |
| 261 | 6.32\% | \$13,442,776.60 |
| 262 | 6.32\% | \$14,292,965.38 |
| 263 | 6.32\% | \$15,196,924.37 |
| 264 | 6.32\% | \$16,158,054.27 |
| 265 | 6.32\% | \$17,179,970.86 |
| 266 | 6.32\% | \$18,266,518.59 |
| 267 | 6.32\% | \$19,421,785.07 |
| 268 | 6.32\% | \$20,650,116.40 |
| 269 | 6.32\% | \$21,956,133.58 |
| 270 | 6.32\% | \$23,344,749.86 |
| 271 | 6.32\% | \$24,821,189.21 |
| 272 | 6.32\% | \$26,391,006.00 |
| 273 | 6.32\% | \$28,060,105.91 |
| 274 | 6.32\% | \$29,834,768.08 |
| 275 | 6.32\% | \$31,721,668.81 |
| 276 | 6.32\% | \$33,727,906.63 |
| 277 | 6.32\% | \$35,861,029.02 |
| 278 | 6.32\% | \$38,129,060.79 |
| 279 | 6.32\% | \$40,540,534.29 |
| 280 | 6.32\% | \$43,104,521.50 |
| 281 | 6.32\% | \$45,830,668.16 |
| 282 | 6.32\% | \$48,729,230.03 |
| 283 | 6.32\% | \$51,811,111.53 |
| 284 | 6.32\% | \$55,087,906.71 |
| 285 | 6.32\% | \$58,571,942.89 |
| 286 | 6.32\% | \$62,276,327.04 |
| 287 | 6.32\% | \$66,214,995.06 |
| 288 | 6.32\% | \$70,402,764.26 |
| 289 | 6.32\% | \$74,855,389.03 |
| 290 | 6.32\% | \$79,589,620.17 |
| 291 | 6.32\% | \$84,623,267.90 |
| 292 | 6.32\% | \$89,975,268.82 |
| 293 | 6.32\% | \$95,665,757.18 |
| 294 | 6.32\% | \$101,716,140.64 |
| 295 | 6.32\% | \$108,149,180.76 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## XEL Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 63.27 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 1.67 |
| DCF Growth Estimate $=$ |  | $5.56 \%$ |
| GNP Growth Rate $=$ |  | $6.32 \%$ |
| Non-Constant DCF $=$ | $8.90 \%$ |  |
| Constant DCF $=$ | $8.34 \%$ |  |


| YEAR | GROWTH RATE | DIVIDEND |
| :---: | :---: | :---: |
| 296 | 6.32\% | \$114,989,078.69 |
| 297 | 6.32\% | \$122,261,566.14 |
| 298 | 6.32\% | \$129,994,002.27 |
| 299 | 6.32\% | \$138,215,476.54 |
| 300 | 6.32\% | \$146,956,918.17 |
| 301 | 6.32\% | \$156,251,212.52 |
| 302 | 6.32\% | \$166,133,324.77 |
| 303 | 6.32\% | \$176,640,431.49 |
| 304 | 6.32\% | \$187,812,060.46 |
| 305 | 6.32\% | \$199,690,239.41 |
| 306 | 6.32\% | \$212,319,654.12 |
| 307 | 6.32\% | \$225,747,816.51 |
| 308 | 6.32\% | \$240,025,243.40 |
| 309 | 6.32\% | \$255,205,646.55 |
| 310 | 6.32\% | \$271,346,134.72 |
| 311 | 6.32\% | \$288,507,428.51 |
| 312 | 6.32\% | \$306,754,088.80 |
| 313 | 6.32\% | \$326,154,759.62 |
| 314 | 6.32\% | \$346,782,426.40 |
| 315 | 6.32\% | \$368,714,690.54 |
| 316 | 6.32\% | \$392,034,061.33 |
| 317 | 6.32\% | \$416,828,266.37 |
| 318 | 6.32\% | \$443,190,581.59 |
| 319 | 6.32\% | \$471,220,182.17 |
| 320 | 6.32\% | \$501,022,515.61 |
| 321 | 6.32\% | \$532,709,698.45 |
| 322 | 6.32\% | \$566,400,938.05 |
| 323 | 6.32\% | \$602,222,981.02 |
| 324 | 6.32\% | \$640,310,590.10 |
| 325 | 6.32\% | \$680,807,051.06 |
| 326 | 6.32\% | \$723,864,711.81 |
| 327 | 6.32\% | \$769,645,555.51 |
| 328 | 6.32\% | \$818,321,809.93 |
| 329 | 6.32\% | \$870,076,595.41 |
| 330 | 6.32\% | \$925,104,613.73 |
| 331 | 6.32\% | \$983,612,880.58 |
| 332 | 6.32\% | \$1,045,821,504.39 |
| 333 | 6.32\% | \$1,111,964,514.33 |
| 334 | 6.32\% | \$1,182,290,740.76 |
| 335 | 6.32\% | \$1,257,064,751.32 |
| 336 | 6.32\% | \$1,336,567,846.25 |
| 337 | 6.32\% | \$1,421,099,116.62 |
| 338 | 6.32\% | \$1,510,976,569.51 |
| 339 | 6.32\% | \$1,606,538,324.39 |
| 340 | 6.32\% | \$1,708,143,885.11 |
| 341 | 6.32\% | \$1,816,175,492.31 |
| 342 | 6.32\% | \$1,931,039,561.50 |
| 343 | 6.32\% | \$2,053,168,211.92 |
| 344 | 6.32\% | \$2,183,020,892.21 |
| 345 | 6.32\% | \$2,321,086,108.85 |
| 346 | 6.32\% | \$2,467,883,263.93 |
| 347 | 6.32\% | \$2,623,964,609.14 |
| 348 | 6.32\% | \$2,789,917,323.35 |
| 349 | 6.32\% | \$2,966,365,721.54 |
| 350 | 6.32\% | \$3,153,973,603.56 |
| 351 | 6.32\% | \$3,353,446,751.25 |
| 352 | 6.32\% | \$3,565,535,583.69 |
| 353 | 6.32\% | \$3,791,037,980.19 |
| 354 | 6.32\% | \$4,030,802,281.99 |

## OHIO POWER COMPANY

Case No. 20-585-EL-AIR

## XEL Non-Constant DCF Calculation

| Stock Price $=$ | $\$$ | 63.27 |
| :--- | :---: | :---: |
| Annual Dividend $=$ | $\$$ | 1.67 |
| DCF Growth Estimate $=$ | $5.56 \%$ |  |
| GNP Growth Rate $=$ | $6.32 \%$ |  |
| Non-Constant DCF $=$ | $8.90 \%$ |  |
| Constant DCF $=$ |  | $8.34 \%$ |


| YEAR | GROWTH <br> RATE | DIVIDEND |
| :---: | :---: | :---: |
| 355 | 6.32\% | \$4,285,730,483.67 |
| 356 | 6.32\% | \$4,556,781,626.52 |
| 357 | 6.32\% | \$4,844,975,406.39 |
| 358 | 6.32\% | \$5,151,396,009.82 |
| 359 | 6.32\% | \$5,477,196,192.79 |
| 360 | 6.32\% | \$5,823,601,617.33 |
| 361 | 6.32\% | \$6,191,915,462.52 |
| 362 | 6.32\% | \$6,583,523,327.02 |
| 363 | 6.32\% | \$6,999,898,441.73 |
| 364 | 6.32\% | \$7,442,607,212.07 |
| 365 | 6.32\% | \$7,913,315,110.83 |
| 366 | 6.32\% | \$8,413,792,943.64 |
| 367 | 6.32\% | \$8,945,923,510.82 |
| 368 | 6.32\% | \$9,511,708,690.43 |
| 369 | 6.32\% | \$10,113,276,969.35 |
| 370 | 6.32\% | \$10,752,891,450.69 |
| 371 | 6.32\% | \$11,432,958,367.57 |
| 372 | 6.32\% | \$12,156,036,135.41 |
| 373 | 6.32\% | \$12,924,844,976.64 |
| 374 | 6.32\% | \$13,742,277,154.28 |
| 375 | 6.32\% | \$14,611,407,852.58 |
| 376 | 6.32\% | \$15,535,506,745.91 |
| 377 | 6.32\% | \$16,518,050,299.28 |
| 378 | 6.32\% | \$17,562,734,846.83 |
| 379 | 6.32\% | \$18,673,490,497.44 |
| 380 | 6.32\% | \$19,854,495,919.88 |
| 381 | 6.32\% | \$21,110,194,062.88 |
| 382 | 6.32\% | \$22,445,308,869.63 |
| 383 | 6.32\% | \$23,864,863,049.22 |
| 384 | 6.32\% | \$25,374,196,972.11 |
| 385 | 6.32\% | \$26,978,988,760.67 |
| 386 | 6.32\% | \$28,685,275,650.22 |
| 387 | 6.32\% | \$30,499,476,701.25 |
| 388 | 6.32\% | \$32,428,416,947.87 |
| 389 | 6.32\% | \$34,479,353,073.69 |
| 390 | 6.32\% | \$36,660,000,711.45 |
| 391 | 6.32\% | \$38,978,563,469.30 |
| 392 | 6.32\% | \$41,443,763,792.84 |
| 393 | 6.32\% | \$44,064,875,778.94 |
| 394 | 6.32\% | \$46,851,760,065.03 |
| 395 | 6.32\% | \$49,814,900,924.78 |
| 396 | 6.32\% | \$52,965,445,710.08 |
| 397 | 6.32\% | \$56,315,246,787.37 |
| 398 | 6.32\% | \$59,876,906,126.34 |
| 399 | 6.32\% | \$63,663,822,708.61 |
| 400 | 6.32\% | \$67,690,242,934.75 |

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Growth in U.S. Gross National Product, 1929 to 2019

| Year | GNP (\$billion ) | Change (\$billion ) | Growth (\%) |
| :---: | :---: | :---: | :---: |
| 1929 | 105.3 |  |  |
| 1930 | 92.9 | -12.40 | -11.78\% |
| 1931 | 77.9 | -15.00 | -16.15\% |
| 1932 | 59.9 | -18.00 | -23.11\% |
| 1933 | 57.5 | -2.40 | -4.01\% |
| 1934 | 67.1 | 9.60 | 16.70\% |
| 1935 | 74.6 | 7.50 | 11.18\% |
| 1936 | 85.1 | 10.50 | 14.08\% |
| 1937 | 93.4 | 8.30 | 9.75\% |
| 1938 | 87.7 | -5.70 | -6.10\% |
| 1939 | 93.8 | 6.10 | 6.96\% |
| 1940 | 103.2 | 9.40 | 10.02\% |
| 1941 | 129.7 | 26.50 | 25.68\% |
| 1942 | 166.4 | 36.70 | 28.30\% |
| 1943 | 203.4 | 37.00 | 22.24\% |
| 1944 | 224.8 | 21.40 | 10.52\% |
| 1945 | 228.3 | 3.50 | 1.56\% |
| 1946 | 228.2 | -0.10 | -0.04\% |
| 1947 | 250.7 | 22.50 | 9.86\% |
| 1948 | 275.9 | 25.20 | 10.05\% |
| 1949 | 273.8 | -2.10 | -0.76\% |
| 1950 | 301.3 | 27.50 | 10.04\% |
| 1951 | 348.8 | 47.50 | 15.77\% |
| 1952 | 369.3 | 20.50 | 5.88\% |
| 1953 | 391.1 | 21.80 | 5.90\% |
| 1954 | 392.6 | 1.50 | 0.38\% |
| 1955 | 427.9 | 35.30 | 8.99\% |
| 1956 | 452.1 | 24.20 | 5.66\% |
| 1957 | 477.1 | 25.00 | 5.53\% |
| 1958 | 483.9 | 6.80 | 1.43\% |
| 1959 | 524.4 | 40.50 | 8.37\% |
| 1960 | 545.5 | 21.10 | 4.02\% |
| 1961 | 565.7 | 20.20 | 3.70\% |
| 1962 | 608.0 | 42.30 | 7.48\% |
| 1963 | 641.9 | 33.90 | 5.58\% |
| 1964 | 689.4 | 47.50 | 7.40\% |
| 1965 | 747.6 | 58.20 | 8.44\% |
| 1966 | 818.5 | 70.90 | 9.48\% |
| 1967 | 865.4 | 46.90 | 5.73\% |
| 1968 | 946.7 | 81.30 | 9.39\% |
| 1969 | 1,023.7 | 77.00 | 8.13\% |
| 1970 | 1,079.7 | 56.00 | 5.47\% |
| 1971 | 1,172.4 | 92.70 | 8.59\% |
| 1972 | 1,287.7 | 115.30 | 9.83\% |
| 1973 | 1,438.0 | 150.30 | 11.67\% |
| 1974 | 1,560.8 | 122.80 | 8.54\% |
| 1975 | 1,697.9 | 137.10 | 8.78\% |
| 1976 | 1,890.3 | 192.40 | 11.33\% |
| 1977 | 2,102.1 | 211.80 | 11.20\% |
| 1978 | 2,373.2 | 271.10 | 12.90\% |
| 1979 | 2,659.3 | 286.10 | 12.06\% |
| 1980 | 2,891.5 | 232.20 | 8.73\% |
| 1981 | 3,240.0 | 348.50 | 12.05\% |
| 1982 | 3,380.3 | 140.30 | 4.33\% |
| 1983 | 3,671.1 | 290.80 | 8.60\% |
| 1984 | 4,073.9 | 402.80 | 10.97\% |
| 1985 | 4,364.3 | 290.40 | 7.13\% |
| 1986 | 4,596.6 | 232.30 | 5.32\% |
| 1987 | 4,872.7 | 276.10 | 6.01\% |
| 1988 | 5,259.1 | 386.40 | 7.93\% |

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Growth in U.S. Gross National Product, 1929 to 2019

| Year | GNP <br> (\$billion ) | Change <br> (\$billion ) | Growth <br> (\%) |
| :---: | :---: | :---: | :---: |
| 1989 | $5,666.4$ | 407.30 | $7.74 \%$ |
| 1990 | $5,997.8$ | 331.40 | $5.85 \%$ |
| 1991 | $6,189.7$ | 191.90 | $3.20 \%$ |
| 1992 | $6,551.4$ | 361.70 | $5.84 \%$ |
| 1993 | $6,889.7$ | 338.30 | $5.16 \%$ |
| 1994 | $7,310.2$ | 420.50 | $6.10 \%$ |
| 1995 | $7,667.7$ | 357.50 | $4.89 \%$ |
| 1996 | $8,104.0$ | 436.30 | $5.69 \%$ |
| 1997 | $8,600.9$ | 496.90 | $6.13 \%$ |
| 1998 | $9,080.2$ | 479.30 | $5.57 \%$ |
| 1999 | $9,656.2$ | 576.00 | $6.34 \%$ |
| 2000 | $10,287.4$ | 631.20 | $6.54 \%$ |
| 2001 | $10,630.6$ | 343.20 | $3.34 \%$ |
| 2002 | $10,981.7$ | 351.10 | $3.30 \%$ |
| 2003 | $11,516.6$ | 534.90 | $4.87 \%$ |
| 2004 | $12,291.9$ | 775.30 | $6.73 \%$ |
| 2005 | $13,114.6$ | 822.70 | $6.69 \%$ |
| 2006 | $13,865.1$ | 750.50 | $5.72 \%$ |
| 2007 | $14,560.9$ | 695.80 | $5.02 \%$ |
| 2008 | $14,867.5$ | 306.60 | $2.11 \%$ |
| 2009 | $14,590.9$ | -276.60 | $-1.86 \%$ |
| 2010 | $15,187.8$ | 596.90 | $4.09 \%$ |
| 2011 | $15,779.0$ | 591.20 | $3.89 \%$ |
| 2012 | $16,429.3$ | 650.30 | $4.12 \%$ |
| 2013 | $17,015.6$ | 586.30 | $3.57 \%$ |
| 2014 | $17,768.3$ | 752.70 | $4.42 \%$ |
| 2015 | $18,458.7$ | 690.40 | $3.89 \%$ |
| 2016 | $18,977.1$ | 518.40 | $2.81 \%$ |
| 2017 | $19,835.3$ | 858.20 | $4.52 \%$ |
| 2018 | $20,896.6$ | $1,061.30$ | $5.35 \%$ |
| 2019 | $21,702.9$ | 806.30 | $3.86 \%$ |
|  |  |  | $6.32 \%$ |

Source: National Income and Product Accounts ( NIPA ) from the U. S. Bureau of Economic Analysis and Econostats; BEA Data; NIPA Index; Section 1. Domestic Product and Income Table 1.7.5 Relation of Gross Domestic Product, Gross National Product, Net National Product, National Income, and Personal Income.

# OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> 2019 Earned Returns on Equity 

| 2019 Earned Returns on Equity for Constituents of the SPDR Select Sector Fund - Utilities (XLU) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company Name | Symbol | S\&P Adjusted Net Income | S\&P Adjusted Common Equity 2018 | S\&P Adjusted Common Equity 2019 |  | ge S\&P Common uity | ROE |
| NextEra Energy Inc | NEE | \$ 3,769.0 | \$ 34,144.0 | \$ 37,005.0 | \$ | 35,574.5 | 10.59\% |
| Dominion Energy Inc | D | \$ 1,341.0 | \$ 20,107.0 | \$ 29,607.0 | \$ | 24,857.0 | 5.39\% |
| Duke Energy Corp | DUK | \$ 3,694.0 | \$ 43,817.0 | \$ 44,860.0 | \$ | 44,338.5 | 8.33\% |
| Southern Co | SO | \$ 4,739.0 | \$ 24,723.0 | \$ 27,505.0 | \$ | 26,114.0 | 18.15\% |
| American Electric Power | AEP | \$ 1,921.1 | \$ 19,028.4 | \$ 19,632.2 | \$ | 19,330.3 | 9.94\% |
| Exelon Corp | EXC | \$ 2,936.0 | \$ 27,410.0 | \$ 32,224.0 | \$ | 29,817.0 | 9.85\% |
| Sempra Energy | SRE | \$ 1,692.0 | \$ 14,880.0 | \$ 17,671.0 | \$ | 16,275.5 | 10.40\% |
| Xcel Energy Inc | XEL | \$ 1,372.0 | \$ 12,222.0 | \$ 13,239.0 | \$ | 12,730.5 | 10.78\% |
| WEC Energy Group Inc | WEC | \$ 1,134.0 | \$ 9,788.9 | \$ 10,113.4 | \$ | 9,951.2 | 11.40\% |
| Consolidated Edison Inc | ED | \$ 1,343.0 | \$ 16,726.0 | \$ 18,022.0 | \$ | 17,374.0 | 7.73\% |
| Eversource Energy | ES | \$ 909.1 | \$ 11,486.8 | \$ 12,630.0 | \$ | 12,058.4 | 7.54\% |
| Public Service Enterprise Grp | PEG | \$ 1,693.0 | \$ 14,377.0 | \$ 15,089.0 | \$ | 14,733.0 | 11.49\% |
| FirstEnergy Corp | FE | \$ 900.0 | \$ 6,814.0 | \$ 6,975.0 | \$ | 6,894.5 | 13.05\% |
| American Water Works Co Inc | AWK | \$ 621.0 | \$ 5,864.0 | \$ 6,121.0 | \$ | 5,992.5 | 10.36\% |
| Edison Intl | EIX | \$ 1,284.0 | \$ 10,459.0 | \$ 13,303.0 | \$ | 11,881.0 | 10.81\% |
| PPL Corp | PPL | \$ 1,745.0 | \$ 11,657.0 | \$ 12,991.0 | \$ | 12,324.0 | 14.16\% |
| DTE Energy Co | DTE | \$ 1,167.0 | \$ 10,237.0 | \$ 11,672.0 | \$ | 10,954.5 | 10.65\% |
| Entergy Corp | ETR | \$ 1,241.2 | \$ 8,844.3 | \$ 10,223.7 | \$ | 9,534.0 | 13.02\% |
| Ameren Corp | AEE | \$ 828.0 | \$ 7,631.0 | \$ 8,059.0 | \$ | 7,845.0 | 10.55\% |
| CMS Energy Corp | CMS | \$ 680.0 | \$ 4,755.0 | \$ 5,018.0 | \$ | 4,886.5 | 13.92\% |
| Evergy Inc. | EVRG | \$ 669.9 | \$ 10,028.2 | \$ 8,571.9 | \$ | 9,300.1 | 7.20\% |
| Atmos Energy Corp | ATO | \$ 511.0 | \$ 4,770.0 | \$ 5,750.2 | \$ | 5,260.1 | 9.71\% |
| Alliant Energy Corp | LNT | \$ 557.2 | \$ 4,585.7 | \$ 5,205.1 | \$ | 4,895.4 | 11.38\% |
| Nisource Inc | NI | \$ 328.0 | \$ 4,870.9 | \$ 5,106.7 | \$ | 4,988.8 | 6.57\% |
| Pinnacle West Capital (AZ) | PNW | \$ 538.3 | \$ 5,222.9 | \$ 5,430.7 | \$ | 5,326.8 | 10.11\% |
| AES Corp | AES | \$ 302.0 | \$ 3,208.0 | \$ 2,996.0 | \$ | 3,102.0 | 9.74\% |
| Centerpoint Energy Inc | CNP | \$ 674.0 | \$ 6,318.0 | \$ 6,619.0 | \$ | 6,468.5 | 10.42\% |
| Totals: |  | \$ 38,589.8 |  |  | \$ | 372,807.5 | 10.35\% |

## OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> 2020 Rate Case Authorizations

## S\&P Global

## Market Intelligence

Rate Case History (Past Rate Cases)
List None
Company List All
States All
Years 2020
Service Type Electric

| Return on Equity (\%) | 1st Quartile |
| :---: | :---: |
| 8.20 |  |
| 8.25 |  |
| 8.80 |  |
| 9.10 |  |
| 9.25 |  |
| 9.25 |  |
| 9.30 | 2nd Quartile |
| 9.40 |  |
| 9.40 |  |
| 9.40 |  |
| 9.40 |  |
| 9.45 |  |
| 9.45 |  |
| 9.50 | 3rd Quartile |
| 9.50 |  |
| 9.60 |  |
| 9.70 |  |
| 9.70 |  |
| 9.70 |  |
| 9.75 | 4th Quartile |
| 9.86 |  |
| 9.90 |  |
| 10.00 |  |
| 10.00 |  |
| 10.02 |  |
| 9.50 | Average of 2nd + 3rd Quartiles |

## MODIFICATIONS:

* Removed Limited-Issue Rider results
* Removed Transmission results
* Sorted based on ROE granted
* Removed NA results for ROEs


## OHIO POWER COMPANY <br> Case No. 20-585-EL-AIR <br> Embedded Cost of Short-Term Debt

## Work Paper Reference No(s):

Schedule D-2
Page 1 of 1

| LINE <br> NO | ISSUE | AMOUNT <br> OUTSTANDING | INTEREST <br> RATE | INTEREST <br> REQUIREMENT |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) |  |
| 1 | Ohio Power Company | $\$$ | $130,991,516$ | $2.10 \%$ | $\$$ |

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
mbedded Cost of Long-Term Deb

 long-term debt was identified. After that adjustment, the embedded cost of long-term debt is $5.26 \%$, resulting in an adjusted weighted average cost of capital of $7.92 \%$.
(2) Hedging gain is included in original expense: $\$ 16,792,128$ gain on Series $M$

| Line No. |  | Rate Code | Level of Demand | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized Fuel Cost Additions to Bill <br> (G) | Current <br> Total Bill <br> Including Fuel $\text { ( } \mathrm{H}=\mathrm{C}+\mathrm{G} \text { ) }$ | Proposed Total Bill Including Fuel ( $\mathrm{I}=\mathrm{D}+\mathrm{G}$ ) | Schedule E-5 Page 127 of 154 $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  |  |  |  |  |  |  |  | 0.04026 |  |  |  |
| 2 | OP | RS |  | 0 | 13.02 | 9.27 | (3.75) | -28.77\% | - | 13.02 | 9.27 | -28.77\% |
| 3 |  |  |  | 30 | 15.07 | 11.33 | (3.74) | -24.82\% | 1.21 | 16.28 | 12.54 | -22.97\% |
| 4 |  |  |  | 70 | 17.81 | 14.08 | (3.73) | -20.96\% | 2.82 | 20.63 | 16.89 | -18.10\% |
| 5 |  |  |  | 120 | 21.23 | 17.51 | (3.72) | -17.54\% | 4.83 | 26.06 | 22.34 | -14.29\% |
| 6 |  |  |  | 200 | 26.70 | 22.99 | (3.71) | -13.88\% | 8.05 | 34.75 | 31.05 | -10.67\% |
| 7 |  |  |  | 300 | 33.54 | 29.85 | (3.69) | -10.99\% | 12.08 | 45.62 | 41.93 | -8.08\% |
| 8 |  |  |  | 500 | 47.22 | 43.57 | (3.65) | -7.73\% | 20.13 | 67.35 | 63.70 | -5.42\% |
| 9 |  |  |  | 800 | 67.74 | 64.15 | (3.59) | -5.30\% | 32.21 | 99.95 | 96.36 | -3.59\% |
| 10 |  |  |  | 1,000 | 81.42 | 77.87 | (3.55) | -4.36\% | 40.26 | 121.68 | 118.13 | -2.92\% |
| 11 |  |  |  | 1,200 | 95.10 | 91.59 | (3.51) | -3.69\% | 48.31 | 143.41 | 139.90 | -2.45\% |
| 12 |  |  |  | 1,500 | 115.62 | 112.17 | (3.45) | -2.99\% | 60.39 | 176.01 | 172.56 | -1.96\% |
| 13 |  |  |  | 2,000 | 149.82 | 146.46 | (3.36) | -2.24\% | 80.52 | 230.34 | 226.98 | -1.46\% |
| 14 |  |  |  | 4,000 | 285.70 | 282.73 | (2.97) | -1.04\% | 161.04 | 446.74 | 443.77 | -0.66\% |
| 15 |  |  |  | 5,000 | 353.64 | 350.87 | (2.77) | -0.78\% | 201.30 | 554.94 | 552.17 | -0.50\% |
| 16 |  |  |  | 8,000 | 557.46 | 555.27 | (2.19) | -0.39\% | 322.08 | 879.54 | 877.35 | -0.25\% |
| 17 |  |  |  | 10,000 | 693.34 | 691.54 | (1.80) | -0.26\% | 402.60 | 1,095.94 | 1,094.14 | -0.16\% |
| 18 |  |  |  | 12,000 | 829.21 | 827.81 | (1.41) | -0.17\% | 483.12 | 1,312.33 | 1,310.93 | -0.11\% |
| 19 |  |  |  | 15,000 | 1,033.03 | 1,032.21 | (0.82) | -0.08\% | 603.90 | 1,636.93 | 1,636.11 | -0.05\% |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | OP | RS-TOD |  |  |  |  |  |  |  |  |  |  |
| 22 |  | On - Peak |  | 1,000 | 82.03 | 77.29 | (4.74) | -5.78\% | 40.26 | 122.29 | 117.55 | -3.88\% |
| 23 |  | Off-Peak |  | 2,000 | 149.85 | 145.30 | (4.55) | -3.04\% | 80.52 | 230.37 | 225.82 | -1.97\% |
| 24 |  |  |  | 3,000 | 217.21 | 212.86 | (4.35) | -2.00\% | 120.78 | 337.99 | 333.64 | -1.29\% |
| 25 |  |  |  | 4,000 | 284.57 | 280.41 | (4.16) | -1.46\% | 161.04 | 445.61 | 441.45 | -0.93\% |
| 26 |  |  |  | 5,000 | 351.93 | 347.97 | (3.96) | -1.13\% | 201.30 | 553.23 | 549.27 | -0.72\% |
| 27 |  |  |  | 6,000 | 419.29 | 415.52 | (3.77) | -0.90\% | 241.56 | 660.85 | 657.08 | -0.57\% |
| 28 |  |  |  | 7,000 | 486.65 | 483.07 | (3.58) | -0.73\% | 281.82 | 768.47 | 764.89 | -0.47\% |
| 29 |  |  |  | 8,000 | 554.01 | 550.63 | (3.38) | -0.61\% | 322.08 | 876.09 | 872.71 | -0.39\% |


| Line No. |  | Rate Code | Level of Demand <br> (A) | Level of Usage <br> (B) | $\begin{aligned} & \text { Current } \\ & \text { Bill } \\ & \text { (C) } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase ( $\mathrm{F}=\mathrm{E} \div \mathrm{C}$ ) | Annualized Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 128 of 154 $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP | RS-TOD |  |  |  |  |  |  |  |  |  |  |
| 2 |  | On - Peak |  | 1,000 | 82.83 | 78.09 | (4.74) | -5.73\% | 40.26 | 123.09 | 118.35 | -3.85\% |
| 3 |  | Off-Peak |  | 2,000 | 151.45 | 146.90 | (4.55) | -3.00\% | 80.52 | 231.97 | 227.42 | -1.96\% |
| 4 |  |  |  | 3,000 | 219.61 | 215.26 | (4.35) | -1.98\% | 120.78 | 340.39 | 336.04 | -1.28\% |
| 5 |  |  |  | 4,000 | 287.77 | 283.61 | (4.16) | -1.45\% | 161.04 | 448.81 | 444.65 | -0.93\% |
| 6 |  |  |  | 5,000 | 355.93 | 351.96 | (3.96) | -1.11\% | 201.30 | 557.23 | 553.26 | -0.71\% |
| 7 |  |  |  | 6,000 | 424.09 | 420.32 | (3.77) | -0.89\% | 241.56 | 665.65 | 661.88 | -0.57\% |
| 8 |  |  |  | 7,000 | 492.25 | 488.67 | (3.58) | -0.73\% | 281.82 | 774.07 | 770.49 | -0.46\% |
| 9 |  |  |  | 8,000 | 560.41 | 557.02 | (3.38) | -0.60\% | 322.08 | 882.49 | 879.10 | -0.38\% |
| 10 | OP | RS-TOD |  |  |  |  |  |  |  |  |  |  |
| 11 |  | On - Peak |  | 1,000 | 83.63 | 78.89 | (4.74) | -5.67\% | 40.26 | 123.89 | 119.15 | -3.83\% |
| 12 |  | Off-Peak |  | 2,000 | 153.05 | 148.50 | (4.55) | -2.97\% | 80.52 | 233.57 | 229.02 | -1.95\% |
| 13 |  |  |  | 3,000 | 222.01 | 217.66 | (4.35) | -1.96\% | 120.78 | 342.79 | 338.44 | -1.27\% |
| 14 |  |  |  | 4,000 | 290.97 | 286.81 | (4.16) | -1.43\% | 161.04 | 452.01 | 447.85 | -0.92\% |
| 15 |  |  |  | 5,000 | 359.93 | 355.96 | (3.96) | -1.10\% | 201.30 | 561.23 | 557.26 | -0.71\% |
| 16 |  |  |  | 6,000 | 428.89 | 425.12 | (3.77) | -0.88\% | 241.56 | 670.45 | 666.68 | -0.56\% |
| 17 |  |  |  | 7,000 | 497.84 | 494.27 | (3.58) | -0.72\% | 281.82 | 779.66 | 776.09 | -0.46\% |
| 18 |  |  |  | 8,000 | 566.80 | 563.42 | (3.38) | -0.60\% | 322.08 | 888.88 | 885.50 | -0.38\% |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | OP | RS-ES |  |  |  |  |  |  |  |  |  |  |
| 21 |  | On - Peak |  | 1,000 | 80.43 | 75.69 | (4.74) | -5.90\% | 40.26 | 120.69 | 115.95 | -3.93\% |
| 22 |  | Off-Peak |  | 2,000 | 146.65 | 142.10 | (4.55) | -3.10\% | 80.52 | 227.17 | 222.62 | -2.00\% |
| 23 |  |  |  | 3,000 | 212.41 | 208.06 | (4.35) | -2.05\% | 120.78 | 333.19 | 328.84 | -1.31\% |
| 24 |  |  |  | 4,000 | 278.17 | 274.01 | (4.16) | -1.50\% | 161.04 | 439.21 | 435.05 | -0.95\% |
| 25 |  |  |  | 5,000 | 343.93 | 339.97 | (3.96) | -1.15\% | 201.30 | 545.23 | 541.27 | -0.73\% |
| 26 |  |  |  | 6,000 | 409.69 | 405.92 | (3.77) | -0.92\% | 241.56 | 651.25 | 647.48 | -0.58\% |
| 27 |  |  |  | 7,000 | 475.45 | 471.88 | (3.58) | -0.75\% | 281.82 | 757.27 | 753.70 | -0.47\% |
| 28 |  |  |  | 8,000 | 541.21 | 537.83 | (3.38) | -0.62\% | 322.08 | 863.29 | 859.91 | -0.39\% |


| Line No. |  | Rate Code | Level of Demand <br> (A) | Level of Usage <br> (B) | $\begin{aligned} & \text { Current } \\ & \text { Bill } \\ & \text { (C) } \\ & \hline \end{aligned}$ | Proposed Bill (D) | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $\text { ( } \mathrm{H}=\mathrm{C}+\mathrm{G} \text { ) }$ | Proposed Total Bill Including Fuel ( $\mathrm{I}=\mathrm{D}+\mathrm{G}$ ) | Schedule E-5 Page 129 of 154 <br> \% Change ( $\mathrm{J}=\mathrm{E} \div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP | RS-ES |  |  |  |  |  |  |  |  |  |  |
| 2 |  | On - Peak |  | 1,000 | 81.23 | 76.49 | (4.74) | -5.84\% | 40.26 | 121.49 | 116.75 | -3.91\% |
| 3 |  | Off-Peak |  | 2,000 | 148.25 | 143.70 | (4.55) | -3.07\% | 80.52 | 228.77 | 224.22 | -1.99\% |
| 4 |  |  |  | 3,000 | 214.81 | 210.46 | (4.35) | -2.03\% | 120.78 | 335.59 | 331.24 | -1.30\% |
| 5 |  |  |  | 4,000 | 281.37 | 277.21 | (4.16) | -1.48\% | 161.04 | 442.41 | 438.25 | -0.94\% |
| 6 |  |  |  | 5,000 | 347.93 | 343.97 | (3.96) | -1.14\% | 201.30 | 549.23 | 545.27 | -0.72\% |
| 7 |  |  |  | 6,000 | 414.49 | 410.72 | (3.77) | -0.91\% | 241.56 | 656.05 | 652.28 | -0.57\% |
| 8 |  |  |  | 7,000 | 481.05 | 477.48 | (3.58) | -0.74\% | 281.82 | 762.87 | 759.30 | -0.47\% |
| 9 |  |  |  | 8,000 | 547.61 | 544.23 | (3.38) | -0.62\% | 322.08 | 869.69 | 866.31 | -0.39\% |
| 10 | OP | RS-ES |  |  |  |  |  |  |  |  |  |  |
| 11 |  | On - Peak |  | 1,000 | 82.03 | 77.29 | (4.74) | -5.78\% | 40.26 | 122.29 | 117.55 | -3.88\% |
| 12 |  | Off-Peak |  | 2,000 | 149.85 | 145.30 | (4.55) | -3.04\% | 80.52 | 230.37 | 225.82 | -1.97\% |
| 13 |  |  |  | 3,000 | 217.21 | 212.86 | (4.35) | -2.00\% | 120.78 | 337.99 | 333.64 | -1.29\% |
| 14 |  |  |  | 4,000 | 284.57 | 280.41 | (4.16) | -1.46\% | 161.04 | 445.61 | 441.45 | -0.93\% |
| 15 |  |  |  | 5,000 | 351.93 | 347.97 | (3.96) | -1.13\% | 201.30 | 553.23 | 549.27 | -0.72\% |
| 16 |  |  |  | 6,000 | 419.29 | 415.52 | (3.77) | -0.90\% | 241.56 | 660.85 | 657.08 | -0.57\% |
| 17 |  |  |  | 7,000 | 486.65 | 483.07 | (3.58) | -0.73\% | 281.82 | 768.47 | 764.89 | -0.47\% |
| 18 |  |  |  | 8,000 | 554.01 | 550.63 | (3.38) | -0.61\% | 322.08 | 876.09 | 872.71 | -0.39\% |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | OP | GS-1 |  |  |  |  |  |  | 0.04026 |  |  |  |
| 21 |  | Unmetered |  | 50 | 25.03 | 18.42 | (6.61) | -26.41\% | 2.01 | 27.04 | 20.43 | -24.45\% |
| 22 |  |  |  | 100 | 26.91 | 20.99 | (5.92) | -21.99\% | 4.03 | 30.94 | 25.02 | -19.13\% |
| 23 |  |  |  | 150 | 28.80 | 23.57 | (5.23) | -18.15\% | 6.04 | 34.84 | 29.61 | -15.01\% |
| 24 |  |  |  | 200 | 30.69 | 26.15 | (4.54) | -14.79\% | 8.05 | 38.74 | 34.20 | -11.71\% |
| 25 |  |  |  | 400 | 38.23 | 36.46 | (1.77) | -4.64\% | 16.10 | 54.34 | 52.56 | -3.27\% |
| 26 |  |  |  | 700 | 49.56 | 51.93 | 2.37 | 4.78\% | 28.18 | 77.74 | 80.11 | 3.05\% |
| 27 |  |  |  | 1,000 | 60.88 | 67.39 | 6.52 | 10.70\% | 40.26 | 101.14 | 107.65 | 6.44\% |
| 28 |  |  |  | 1,500 | 79.74 | 93.17 | 13.42 | 16.83\% | 60.39 | 140.13 | 153.56 | 9.58\% |
| 29 |  |  |  | 2,000 | 98.61 | 118.94 | 20.33 | 20.62\% | 80.52 | 179.13 | 199.46 | 11.35\% |
| 30 |  |  |  | 4,000 | 173.16 | 221.13 | 47.96 | 27.70\% | 161.04 | 334.20 | 382.17 | 14.35\% |
| 31 |  |  |  | 8,000 | 322.27 | 425.49 | 103.23 | 32.03\% | 322.08 | 644.35 | 747.57 | 16.02\% |
| 32 |  |  |  | 10,000 | 396.82 | 527.68 | 130.86 | 32.98\% | 402.60 | 799.42 | 930.28 | 16.37\% |
| 33 |  |  |  | 15,000 | 583.20 | 783.14 | 199.94 | 34.28\% | 603.90 | 1,187.10 | 1,387.04 | 16.84\% |
| 34 |  |  |  | 25,000 | 950.36 | 1,288.46 | 338.10 | 35.58\% | 1,006.50 | 1,956.86 | 2,294.96 | 17.28\% |


| Line No. | Rate Code | Level of Demand <br> (A) | Level of Usage <br> (B) | $\begin{aligned} & \text { Current } \\ & \text { Bill } \\ & \text { (C) } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase ( $\mathrm{F}=\mathrm{E} \div \mathrm{C}$ ) | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed <br> Total Bill <br> Including Fuel (I = D+G) | Schedule E-5 Page 130 of 154 <br> \% Change ( $\mathrm{J}=\mathrm{E} \div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-1-ES |  |  |  |  |  |  |  |  |  |  |
| 2 | On-Peak |  | 500 | 48.64 | 43.99 | (4.65) | -9.57\% | 20.13 | 68.77 | 64.12 | -6.77\% |
| 3 | Off-Peak |  | 1,000 | 65.77 | 68.02 | 2.25 | 3.43\% | 40.26 | 106.03 | 108.28 | 2.13\% |
| 4 |  |  | 2,000 | 100.02 | 116.09 | 16.07 | 16.07\% | 80.52 | 180.54 | 196.61 | 8.90\% |
| 5 |  |  | 4,000 | 167.61 | 211.31 | 43.70 | 26.07\% | 161.04 | 328.65 | 372.35 | 13.30\% |
| 6 |  |  | 6,000 | 235.19 | 306.53 | 71.33 | 30.33\% | 241.56 | 476.75 | 548.09 | 14.96\% |
| 7 |  |  | 8,000 | 302.78 | 401.75 | 98.97 | 32.69\% | 322.08 | 624.86 | 723.83 | 15.84\% |
| 8 |  |  |  |  |  |  |  |  |  |  |  |
| 9 | On-Peak |  | 500 | 49.00 | 44.34 | (4.65) | -9.50\% | 20.13 | 69.13 | 64.47 | -6.73\% |
| 10 | Off-Peak |  | 1,000 | 66.48 | 68.73 | 2.25 | 3.39\% | 40.26 | 106.74 | 108.99 | 2.11\% |
| 11 |  |  | 2,000 | 101.44 | 117.51 | 16.07 | 15.84\% | 80.52 | 181.96 | 198.03 | 8.83\% |
| 12 |  |  | 4,000 | 170.44 | 214.14 | 43.70 | 25.64\% | 161.04 | 331.48 | 375.18 | 13.18\% |
| 13 |  |  | 6,000 | 239.44 | 310.77 | 71.33 | 29.79\% | 241.56 | 481.00 | 552.33 | 14.83\% |
| 14 |  |  | 8,000 | 308.44 | 407.41 | 98.97 | 32.09\% | 322.08 | 630.52 | 729.49 | 15.70\% |
| 15 |  |  |  |  |  |  |  |  |  |  |  |
| 16 | On-Peak |  | 500 | 49.35 | 44.70 | (4.65) | -9.43\% | 20.13 | 69.48 | 64.83 | -6.70\% |
| 17 | Off-Peak |  | 1,000 | 67.19 | 69.44 | 2.25 | 3.35\% | 40.26 | 107.45 | 109.70 | 2.10\% |
| 18 |  |  | 2,000 | 102.85 | 118.92 | 16.07 | 15.62\% | 80.52 | 183.37 | 199.44 | 8.76\% |
| 19 |  |  | 4,000 | 173.27 | 216.97 | 43.70 | 25.22\% | 161.04 | 334.31 | 378.01 | 13.07\% |
| 20 |  |  | 6,000 | 243.68 | 315.02 | 71.33 | 29.27\% | 241.56 | 485.24 | 556.58 | 14.70\% |
| 21 |  |  | 8,000 | 314.10 | 413.07 | 98.97 | 31.51\% | 322.08 | 636.18 | 735.15 | 15.56\% |
| 22 |  |  |  |  |  |  |  |  |  |  |  |


| Line No. | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase ( $\mathrm{F}=\mathrm{E} \div \mathrm{C}$ ) | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(H=C+G)$ | Proposed <br> Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 131 of 154 \% Change $(\mathrm{J}=\mathrm{E} \div \mathrm{H})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-1 |  |  |  |  |  |  |  |  |  |  |
| 2 |  | 1 | 600 | 54.16 | 50.89 | (3.27) | -6.04\% | 24.16 | 78.32 | 75.04 | -4.18\% |
| 3 |  | 2 | 700 | 57.93 | 56.04 | (1.89) | -3.26\% | 28.18 | 86.11 | 84.22 | -2.20\% |
| 4 |  | 2 | 800 | 61.71 | 61.20 | (0.51) | -0.83\% | 32.21 | 93.91 | 93.41 | -0.54\% |
| 5 |  | 2 | 900 | 65.48 | 66.35 | 0.87 | 1.33\% | 36.23 | 101.71 | 102.59 | 0.86\% |
| 6 |  | 3 | 1,200 | 76.80 | 81.82 | 5.02 | 6.53\% | 48.31 | 125.11 | 130.13 | 4.01\% |
| 7 |  | 3 | 1,400 | 84.35 | 92.13 | 7.78 | 9.22\% | 56.36 | 140.71 | 148.49 | 5.53\% |
| 8 |  | 4 | 1,600 | 91.90 | 102.44 | 10.54 | 11.47\% | 64.42 | 156.31 | 166.85 | 6.75\% |
| 9 |  | 4 | 1,800 | 99.44 | 112.75 | 13.31 | 13.38\% | 72.47 | 171.91 | 185.22 | 7.74\% |
| 10 |  | 5 | 2,100 | 110.72 | 128.17 | 17.45 | 15.76\% | 84.55 | 195.26 | 212.71 | 8.94\% |
| 11 |  | 5 | 2,400 | 121.90 | 143.50 | 21.60 | 17.72\% | 96.62 | 218.52 | 240.12 | 9.88\% |
| 12 |  | 6 | 2,700 | 133.08 | 158.82 | 25.74 | 19.34\% | 108.70 | 241.78 | 267.53 | 10.65\% |
| 13 |  | 6 | 2,800 | 136.81 | 163.93 | 27.12 | 19.83\% | 112.73 | 249.54 | 276.66 | 10.87\% |
| 14 |  | 7 | 3,000 | 144.27 | 174.15 | 29.89 | 20.72\% | 120.78 | 265.05 | 294.93 | 11.28\% |
| 15 |  | 7 | 3,200 | 151.72 | 184.37 | 32.65 | 21.52\% | 128.83 | 280.55 | 313.20 | 11.64\% |
| 16 |  | 8 | 3,500 | 162.90 | 199.70 | 36.79 | 22.59\% | 140.91 | 303.81 | 340.61 | 12.11\% |
| 17 |  | 8 | 3,600 | 166.63 | 204.81 | 38.18 | 22.91\% | 144.94 | 311.57 | 349.74 | 12.25\% |
| 18 |  | 9 | 4,000 | 181.54 | 225.24 | 43.70 | 24.07\% | 161.04 | 342.58 | 386.28 | 12.76\% |
| 19 |  | 10 | 4,500 | 200.18 | 250.79 | 50.61 | 25.28\% | 181.17 | 381.35 | 431.96 | 13.27\% |
| 20 |  |  |  |  |  |  |  |  |  |  |  |
| 21 | OP Gs-2- |  |  |  |  |  |  |  |  |  |  |
| 22 | Rec. Lighting |  | 50 | 39.95 | 22.53 | (17.42) | -43.61\% | 2.01 | 41.96 | 24.54 | -41.51\% |
| 23 |  |  | 100 | 42.53 | 25.10 | (17.43) | -40.99\% | 4.03 | 46.56 | 29.13 | -37.44\% |
| 24 |  |  | 150 | 45.12 | 27.67 | (17.45) | -38.67\% | 6.04 | 51.16 | 33.71 | -34.10\% |
| 25 |  |  | 200 | 47.70 | 30.25 | (17.46) | -36.60\% | 8.05 | 55.76 | 38.30 | -31.31\% |
| 26 |  |  | 400 | 58.04 | 40.53 | (17.51) | -30.17\% | 16.10 | 74.15 | 56.64 | -23.62\% |
| 27 |  |  | 700 | 73.56 | 55.97 | (17.59) | -23.91\% | 28.18 | 101.74 | 84.15 | -17.29\% |
| 28 |  |  | 1,000 | 89.07 | 71.40 | (17.67) | -19.83\% | 40.26 | 129.33 | 111.66 | -13.66\% |
| 29 |  |  | 1,500 | 114.92 | 97.13 | (17.80) | -15.49\% | 60.39 | 175.31 | 157.52 | -10.15\% |
| 30 |  |  | 2,000 | 140.77 | 122.85 | (17.93) | -12.73\% | 80.52 | 221.29 | 203.37 | -8.10\% |
| 31 |  |  | 4,000 | 243.27 | 224.82 | (18.45) | -7.58\% | 161.04 | 404.31 | 385.86 | -4.56\% |
| 32 |  |  | 8,000 | 448.25 | 428.77 | (19.48) | -4.35\% | 322.08 | 770.33 | 750.85 | -2.53\% |
| 33 |  |  | 10,000 | 550.74 | 530.74 | (20.00) | -3.63\% | 402.60 | 953.34 | 933.34 | -2.10\% |
| 34 |  |  | 15,000 | 806.98 | 785.67 | (21.30) | -2.64\% | 603.90 | 1,410.88 | 1,389.57 | -1.51\% |
| 35 |  |  | 25,000 | 1,313.84 | 1,289.94 | (23.90) | -1.82\% | 1,006.50 | 2,320.34 | 2,296.44 | -1.03\% |


| Line No. | Rate Code | Level of Demand <br> (A) | Level of Usage <br> (B) | Current Bill (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | $\begin{gathered} \% \\ \text { Increase } \\ (\mathrm{F}=\mathrm{E} \div \mathrm{C}) \end{gathered}$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 132 of 154 <br> \% Change ( $\mathrm{J}=\mathrm{E} \div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-2 |  |  |  |  |  |  | 0.04026 |  |  |  |
| 2 | Secondary | 10 | 1,000 | 169.94 | 97.56 | (72.38) | -42.59\% | 40.26 | 210.20 | 137.82 | -34.43\% |
| 3 |  | 10 | 2,000 | 191.20 | 136.67 | (54.53) | -28.52\% | 80.52 | 271.72 | 217.19 | -20.07\% |
| 4 |  | 10 | 3,000 | 212.00 | 175.32 | (36.68) | -17.30\% | 120.78 | 332.78 | 296.10 | -11.02\% |
| 5 |  | 25 | 2,500 | 361.02 | 304.51 | (56.52) | -15.65\% | 100.65 | 461.67 | 405.16 | -12.24\% |
| 6 |  | 25 | 5,000 | 413.03 | 392.17 | (20.85) | -5.05\% | 201.30 | 614.33 | 593.47 | -3.39\% |
| 7 |  | 25 | 7,500 | 465.03 | 444.02 | (21.01) | -4.52\% | 301.95 | 766.98 | 745.97 | -2.74\% |
| 8 |  | 50 | 5,000 | 678.73 | 639.69 | (39.04) | -5.75\% | 201.30 | 880.03 | 840.99 | -4.44\% |
| 9 |  | 50 | 10,000 | 782.74 | 743.38 | (39.36) | -5.03\% | 402.60 | 1,185.34 | 1,145.98 | -3.32\% |
| 10 |  | 50 | 15,000 | 886.75 | 847.07 | (39.67) | -4.47\% | 603.90 | 1,490.65 | 1,450.97 | -2.66\% |
| 11 |  | 75 | 7,500 | 996.44 | 939.06 | (57.38) | -5.76\% | 301.95 | 1,298.39 | 1,241.01 | -4.42\% |
| 12 |  | 75 | 15,000 | 1,152.45 | 1,094.60 | (57.86) | -5.02\% | 603.90 | 1,756.35 | 1,698.50 | -3.29\% |
| 13 |  | 75 | 22,500 | 1,304.26 | 1,245.93 | (58.33) | -4.47\% | 905.85 | 2,210.11 | 2,151.78 | -2.64\% |
| 14 |  | 100 | 10,000 | 1,314.15 | 1,238.43 | (75.72) | -5.76\% | 402.60 | 1,716.75 | 1,641.03 | -4.41\% |
| 15 |  | 100 | 20,000 | 1,519.36 | 1,443.01 | (76.36) | -5.03\% | 805.20 | 2,324.56 | 2,248.21 | -3.28\% |
| 16 |  | 100 | 30,000 | 1,721.78 | 1,644.79 | (76.99) | -4.47\% | 1,207.80 | 2,929.58 | 2,852.59 | -2.63\% |
| 17 |  | 200 | 20,000 | 2,582.19 | 2,433.09 | (149.09) | -5.77\% | 805.20 | 3,387.39 | 3,238.29 | -4.40\% |
| 18 |  | 200 | 40,000 | 2,987.01 | 2,836.65 | (150.36) | -5.03\% | 1,610.40 | 4,597.41 | 4,447.05 | -3.27\% |
| 19 |  | 200 | 60,000 | 3,391.84 | 3,240.21 | (151.63) | -4.47\% | 2,415.60 | 5,807.44 | 5,655.81 | -2.61\% |
| 20 |  | 500 | 50,000 | 6,377.90 | 6,008.69 | (369.21) | -5.79\% | 2,013.00 | 8,390.90 | 8,021.69 | -4.40\% |
| 21 |  | 500 | 100,000 | 7,389.96 | 7,017.59 | (372.37) | -5.04\% | 4,026.00 | 11,415.96 | 11,043.59 | -3.26\% |
| 22 |  | 500 | 150,000 | 8,402.03 | 8,026.49 | (375.54) | -4.47\% | 6,039.00 | 14,441.03 | 14,065.49 | -2.60\% |
| 23 |  | 1,000 | 100,000 | 12,704.08 | 11,968.02 | (736.06) | -5.79\% | 4,026.00 | 16,730.08 | 15,994.02 | -4.40\% |
| 24 |  | 1,000 | 200,000 | 14,728.21 | 13,985.82 | (742.39) | -5.04\% | 8,052.00 | 22,780.21 | 22,037.82 | -3.26\% |
| 25 |  | 1,000 | 300,000 | 16,752.34 | 16,003.62 | (748.72) | -4.47\% | 12,078.00 | 28,830.34 | 28,081.62 | -2.60\% |
| 26 |  | 3,000 | 300,000 | 38,008.80 | 35,805.34 | $(2,203.46)$ | -5.80\% | 12,078.00 | 50,086.80 | 47,883.34 | -4.40\% |
| 27 |  | 3,000 | 600,000 | 44,081.19 | 41,858.74 | $(2,222.45)$ | -5.04\% | 24,156.00 | 68,237.19 | 66,014.74 | -3.26\% |
| 28 |  | 3,000 | 900,000 | 49,997.99 | 47,756.55 | $(2,241.44)$ | -4.48\% | 36,234.00 | 86,231.99 | 83,990.55 | -2.60\% |
| 29 |  | 7,000 | 700,000 | 88,618.24 | 83,479.97 | $(5,138.27)$ | -5.80\% | 28,182.00 | 116,800.24 | 111,661.97 | -4.40\% |
| 30 |  | 7,000 | 1,400,000 | 101,470.46 | 96,287.88 | $(5,182.58)$ | -5.11\% | 56,364.00 | 157,834.46 | 152,651.88 | -3.28\% |
| 31 |  | 7,000 | 2,100,000 | 114,013.83 | 108,786.94 | $(5,226.89)$ | -4.58\% | 84,546.00 | 198,559.83 | 193,332.94 | -2.63\% |
| 32 |  |  |  |  |  |  |  |  |  |  |  |


| Line No. | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(H=C+G)$ | Proposed <br> Total Bill <br> Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | $\begin{gathered} \text { Schedule E-5 } \\ \text { Page } 133 \text { of } 154 \\ \text { \% Change } \\ (\mathrm{J}=\mathrm{E} \div \mathrm{H}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-2 |  |  |  |  |  |  | 0.03886 |  |  |  |
| 2 | Primary | 10 | 1,000 | 275.12 | 241.23 | (33.89) | -12.32\% | 38.86 | 313.98 | 280.09 | -10.79\% |
| 3 |  | 10 | 2,000 | 296.10 | 274.72 | (21.38) | -7.22\% | 77.72 | 373.82 | 352.44 | -5.72\% |
| 4 |  | 10 | 3,000 | 316.62 | 307.75 | (8.87) | -2.80\% | 116.58 | 433.20 | 424.33 | -2.05\% |
| 5 |  | 25 | 2,500 | 467.05 | 442.06 | (24.99) | -5.35\% | 97.15 | 564.20 | 539.21 | -4.43\% |
| 6 |  | 25 | 5,000 | 518.35 | 518.34 | (0.00) | 0.00\% | 194.30 | 712.65 | 712.64 | 0.00\% |
| 7 |  | 25 | 7,500 | 569.65 | 569.49 | (0.16) | -0.03\% | 291.45 | 861.10 | 860.94 | -0.02\% |
| 8 |  | 50 | 5,000 | 786.16 | 769.72 | (16.44) | -2.09\% | 194.30 | 980.46 | 964.02 | -1.68\% |
| 9 |  | 50 | 10,000 | 888.76 | 872.00 | (16.76) | -1.89\% | 388.60 | 1,277.36 | 1,260.60 | -1.31\% |
| 10 |  | 50 | 15,000 | 991.36 | 974.29 | (17.07) | -1.72\% | 582.90 | 1,574.26 | 1,557.19 | -1.08\% |
| 11 |  | 75 | 7,500 | 1,105.27 | 1,072.24 | (33.03) | -2.99\% | 291.45 | 1,396.72 | 1,363.69 | -2.37\% |
| 12 |  | 75 | 15,000 | 1,259.17 | 1,225.66 | (33.51) | -2.66\% | 582.90 | 1,842.07 | 1,808.56 | -1.82\% |
| 13 |  | 75 | 22,500 | 1,408.87 | 1,374.89 | (33.98) | -2.41\% | 874.35 | 2,283.22 | 2,249.24 | -1.49\% |
| 14 |  | 100 | 10,000 | 1,424.38 | 1,374.75 | (49.63) | -3.48\% | 388.60 | 1,812.98 | 1,763.35 | -2.74\% |
| 15 |  | 100 | 20,000 | 1,626.78 | 1,576.52 | (50.26) | -3.09\% | 777.20 | 2,403.98 | 2,353.72 | -2.09\% |
| 16 |  | 100 | 30,000 | 1,826.38 | 1,775.48 | (50.90) | -2.79\% | 1,165.80 | 2,992.18 | 2,941.28 | -1.70\% |
| 17 |  | 200 | 20,000 | 2,698.02 | 2,582.01 | (116.01) | -4.30\% | 777.20 | 3,475.22 | 3,359.21 | -3.34\% |
| 18 |  | 200 | 40,000 | 3,097.22 | 2,979.95 | (117.28) | -3.79\% | 1,554.40 | 4,651.62 | 4,534.35 | -2.52\% |
| 19 |  | 200 | 60,000 | 3,496.42 | 3,377.88 | (118.54) | -3.39\% | 2,331.60 | 5,828.02 | 5,709.48 | -2.03\% |
| 20 |  | 500 | 50,000 | 6,510.56 | 6,195.41 | (315.15) | -4.84\% | 1,943.00 | 8,453.56 | 8,138.41 | -3.73\% |
| 21 |  | 500 | 100,000 | 7,508.56 | 7,190.24 | (318.32) | -4.24\% | 3,886.00 | 11,394.56 | 11,076.24 | -2.79\% |
| 22 |  | 500 | 150,000 | 8,506.56 | 8,185.08 | (321.48) | -3.78\% | 5,829.00 | 14,335.56 | 14,014.08 | -2.24\% |
| 23 |  | 1,000 | 100,000 | 12,864.78 | 12,217.72 | (647.05) | -5.03\% | 3,886.00 | 16,750.78 | 16,103.72 | -3.86\% |
| 24 |  | 1,000 | 200,000 | 14,860.78 | 14,207.39 | (653.38) | -4.40\% | 7,772.00 | 22,632.78 | 21,979.39 | -2.89\% |
| 25 |  | 1,000 | 300,000 | 16,856.78 | 16,197.06 | (659.71) | -3.91\% | 11,658.00 | 28,514.78 | 27,855.06 | -2.31\% |
| 26 |  | 3,000 | 300,000 | 38,281.65 | 36,307.00 | $(1,974.66)$ | -5.16\% | 11,658.00 | 49,939.65 | 47,965.00 | -3.95\% |
| 27 |  | 3,000 | 600,000 | 44,269.65 | 42,276.01 | $(1,993.65)$ | -4.50\% | 23,316.00 | 67,585.65 | 65,592.01 | -2.95\% |
| 28 |  | 3,000 | 900,000 | 50,102.07 | 48,089.43 | $(2,012.64)$ | -4.02\% | 34,974.00 | 85,076.07 | 83,063.43 | -2.37\% |
| 29 |  | 7,000 | 700,000 | 89,115.41 | 84,485.55 | $(4,629.86)$ | -5.20\% | 27,202.00 | 116,317.41 | 111,687.55 | -3.98\% |
| 30 |  | 7,000 | 1,400,000 | 101,770.72 | 97,096.55 | $(4,674.17)$ | -4.59\% | 54,404.00 | 156,174.72 | 151,500.55 | -2.99\% |
| 31 |  | 7,000 | 2,100,000 | 114,117.18 | 109,398.70 | $(4,718.48)$ | -4.13\% | 81,606.00 | 195,723.18 | 191,004.70 | -2.41\% |
| 32 |  |  |  |  |  |  |  |  |  |  |  |


| Line No. | Rate Code | Level of Demand (A) | Level of Usage (B) | Current Bill <br> (C) | Proposed Bill (D) | Dollar Increase (E=D-C) | \% Increase $(\mathrm{F}=\mathrm{E} \div \mathrm{C})$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed <br> Total Bill <br> Including Fuel (I= D+G) | $\begin{gathered} \text { Schedule E-5 } \\ \text { Page } 134 \text { of } 154 \\ \text { \% Change } \\ (\mathrm{J}=\mathrm{E} \div \mathrm{H}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-2 |  |  |  |  |  |  | 0.03809 |  |  |  |
| 2 | Subtransmission | 10 | 1,000 | 812.41 | 904.73 | 92.32 | 11.36\% | 38.09 | 850.50 | 942.82 | 10.86\% |
| 3 |  | 10 | 2,000 | 829.31 | 921.57 | 92.26 | 11.12\% | 76.18 | 905.49 | 997.75 | 10.19\% |
| 4 |  | 10 | 3,000 | 845.76 | 937.95 | 92.20 | 10.90\% | 114.27 | 960.03 | 1,052.22 | 9.60\% |
| 5 |  | 25 | 2,500 | 910.88 | 1,019.68 | 108.80 | 11.94\% | 95.23 | 1,006.11 | 1,114.91 | 10.81\% |
| 6 |  | 25 | 5,000 | 952.00 | 1,060.64 | 108.64 | 11.41\% | 190.45 | 1,142.45 | 1,251.09 | 9.51\% |
| 7 |  | 25 | 7,500 | 993.11 | 1,101.59 | 108.48 | 10.92\% | 285.68 | 1,278.78 | 1,387.26 | 8.48\% |
| 8 |  | 50 | 5,000 | 1,074.25 | 1,210.50 | 136.25 | 12.68\% | 190.45 | 1,264.70 | 1,400.95 | 10.77\% |
| 9 |  | 50 | 10,000 | 1,156.47 | 1,292.41 | 135.94 | 11.75\% | 380.90 | 1,537.37 | 1,673.31 | 8.84\% |
| 10 |  | 50 | 15,000 | 1,238.69 | 1,374.31 | 135.62 | 10.95\% | 571.35 | 1,810.04 | 1,945.66 | 7.49\% |
| 11 |  | 75 | 7,500 | 1,237.61 | 1,401.32 | 163.71 | 13.23\% | 285.68 | 1,523.28 | 1,686.99 | 10.75\% |
| 12 |  | 75 | 15,000 | 1,360.94 | 1,524.18 | 163.24 | 11.99\% | 571.35 | 1,932.29 | 2,095.53 | 8.45\% |
| 13 |  | 75 | 22,500 | 1,480.08 | 1,642.84 | 162.76 | 11.00\% | 857.03 | 2,337.10 | 2,499.86 | 6.96\% |
| 14 |  | 100 | 10,000 | 1,400.97 | 1,592.14 | 191.17 | 13.65\% | 380.90 | 1,781.87 | 1,973.04 | 10.73\% |
| 15 |  | 100 | 20,000 | 1,562.61 | 1,753.15 | 190.54 | 12.19\% | 761.80 | 2,324.41 | 2,514.95 | 8.20\% |
| 16 |  | 100 | 30,000 | 1,721.46 | 1,911.36 | 189.90 | 11.03\% | 1,142.70 | 2,864.16 | 3,054.06 | 6.63\% |
| 17 |  | 200 | 20,000 | 2,051.61 | 2,352.61 | 301.00 | 14.67\% | 761.80 | 2,813.41 | 3,114.41 | 10.70\% |
| 18 |  | 200 | 40,000 | 2,369.31 | 2,669.04 | 299.73 | 12.65\% | 1,523.60 | 3,892.91 | 4,192.64 | 7.70\% |
| 19 |  | 200 | 60,000 | 2,687.00 | 2,985.46 | 298.47 | 11.11\% | 2,285.40 | 4,972.40 | 5,270.86 | 6.00\% |
| 20 |  | 500 | 50,000 | 3,995.15 | 4,625.64 | 630.48 | 15.78\% | 1,904.50 | 5,899.65 | 6,530.14 | 10.69\% |
| 21 |  | 500 | 100,000 | 4,789.38 | 5,416.70 | 627.32 | 13.10\% | 3,809.00 | 8,598.38 | 9,225.70 | 7.30\% |
| 22 |  | 500 | 150,000 | 5,583.61 | 6,207.77 | 624.15 | 11.18\% | 5,713.50 | 11,297.11 | 11,921.27 | 5.52\% |
| 23 |  | 1,000 | 100,000 | 7,234.38 | 8,414.01 | 1,179.62 | 16.31\% | 3,809.00 | 11,043.38 | 12,223.01 | 10.68\% |
| 24 |  | 1,000 | 200,000 | 8,822.84 | 9,996.14 | 1,173.29 | 13.30\% | 7,618.00 | 16,440.84 | 17,614.14 | 7.14\% |
| 25 |  | 1,000 | 300,000 | 10,411.30 | 11,578.27 | 1,166.96 | 11.21\% | 11,427.00 | 21,838.30 | 23,005.27 | 5.34\% |
| 26 |  | 3,000 | 300,000 | 20,191.30 | 21,672.88 | 1,481.58 | 7.34\% | 11,427.00 | 31,618.30 | 33,099.88 | 4.69\% |
| 27 |  | 3,000 | 600,000 | 24,956.68 | 26,419.27 | 1,462.59 | 5.86\% | 22,854.00 | 47,810.68 | 49,273.27 | 3.06\% |
| 28 |  | 3,000 | 900,000 | 29,566.48 | 31,010.07 | 1,443.60 | 4.88\% | 34,281.00 | 63,847.48 | 65,291.07 | 2.26\% |
| 29 |  | 7,000 | 700,000 | 46,105.14 | 44,401.40 | $(1,703.74)$ | -3.70\% | 26,663.00 | 72,768.14 | 71,064.40 | -2.34\% |
| 30 |  | 7,000 | 1,400,000 | 55,907.68 | 54,159.62 | $(1,748.05)$ | -3.13\% | 53,326.00 | 109,233.68 | 107,485.62 | -1.60\% |
| 31 |  | 7,000 | 2,100,000 | 65,401.36 | 63,608.99 | $(1,792.36)$ | -2.74\% | 79,989.00 | 145,390.36 | 143,597.99 | -1.23\% |
| 32 |  |  |  |  |  |  |  |  |  |  |  |


| Line No. | Rate Code | Level of Demand (A) | Level of Usage | Current Bill <br> (C) | Proposed Bill (D) | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized <br> Fuel Cost Additions to Bill <br> (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 135 of 154 $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP Gs-3 |  |  |  |  |  |  | 0.04026 |  |  |  |
| 2 | Secondary | 10 | 3,500 | 222.40 | 194.64 | (27.76) | -12.48\% | 140.91 | 363.31 | 335.55 | -7.64\% |
| 3 |  | 10 | 4,500 | 243.20 | 233.29 | (9.91) | -4.08\% | 181.17 | 424.37 | 414.46 | -2.34\% |
| 4 |  | 10 | 5,500 | 264.01 | 254.03 | (9.98) | -3.78\% | 221.43 | 485.44 | 475.46 | -2.06\% |
| 5 |  | 25 | 8,750 | 491.03 | 469.94 | (21.09) | -4.30\% | 352.28 | 843.31 | 822.22 | -2.50\% |
| 6 |  | 25 | 11,250 | 543.04 | 521.79 | (21.25) | -3.91\% | 452.93 | 995.96 | 974.71 | -2.13\% |
| 7 |  | 25 | 13,750 | 595.04 | 573.63 | (21.41) | -3.60\% | 553.58 | 1,148.61 | 1,127.21 | -1.86\% |
| 8 |  | 50 | 17,500 | 937.35 | 897.52 | (39.83) | -4.25\% | 704.55 | 1,641.90 | 1,602.07 | -2.43\% |
| 9 |  | 50 | 22,500 | 1,038.56 | 998.41 | (40.15) | -3.87\% | 905.85 | 1,944.41 | 1,904.26 | -2.06\% |
| 10 |  | 50 | 27,500 | 1,139.76 | 1,099.30 | (40.46) | -3.55\% | 1,107.15 | 2,246.91 | 2,206.45 | -1.80\% |
| 11 |  | 75 | 26,250 | 1,380.17 | 1,321.60 | (58.57) | -4.24\% | 1,056.83 | 2,436.99 | 2,378.42 | -2.40\% |
| 12 |  | 75 | 33,750 | 1,531.98 | 1,472.93 | (59.04) | -3.85\% | 1,358.78 | 2,890.75 | 2,831.71 | -2.04\% |
| 13 |  | 75 | 41,250 | 1,683.79 | 1,624.27 | (59.52) | -3.53\% | 1,660.73 | 3,344.51 | 3,284.99 | -1.78\% |
| 14 |  | 100 | 35,000 | 1,822.98 | 1,745.68 | (77.31) | -4.24\% | 1,409.10 | 3,232.08 | 3,154.78 | -2.39\% |
| 15 |  | 100 | 45,000 | 2,025.40 | 1,947.46 | (77.94) | -3.85\% | 1,811.70 | 3,837.10 | 3,759.16 | -2.03\% |
| 16 |  | 100 | 55,000 | 2,227.81 | 2,149.24 | (78.57) | -3.53\% | 2,214.30 | 4,442.11 | 4,363.54 | -1.77\% |
| 17 |  | 200 | 70,000 | 3,594.25 | 3,441.99 | (152.26) | -4.24\% | 2,818.20 | 6,412.45 | 6,260.19 | -2.37\% |
| 18 |  | 200 | 90,000 | 3,999.08 | 3,845.55 | (153.53) | -3.84\% | 3,623.40 | 7,622.48 | 7,468.95 | -2.01\% |
| 19 |  | 200 | 110,000 | 4,403.90 | 4,249.11 | (154.79) | -3.51\% | 4,428.60 | 8,832.50 | 8,677.71 | -1.75\% |
| 20 |  | 500 | 175,000 | 8,908.06 | 8,530.94 | (377.12) | -4.23\% | 7,045.50 | 15,953.56 | 15,576.44 | -2.36\% |
| 21 |  | 500 | 225,000 | 9,920.12 | 9,539.84 | (380.28) | -3.83\% | 9,058.50 | 18,978.62 | 18,598.34 | -2.00\% |
| 22 |  | 500 | 275,000 | 10,932.19 | 10,548.74 | (383.45) | -3.51\% | 11,071.50 | 22,003.69 | 21,620.24 | -1.74\% |
| 23 |  | 1,000 | 350,000 | 17,764.40 | 17,012.52 | (751.88) | -4.23\% | 14,091.00 | 31,855.40 | 31,103.52 | -2.36\% |
| 24 |  | 1,000 | 450,000 | 19,788.53 | 19,030.32 | (758.21) | -3.83\% | 18,117.00 | 37,905.53 | 37,147.32 | -2.00\% |
| 25 |  | 1,000 | 550,000 | 21,812.66 | 21,048.12 | (764.54) | -3.51\% | 22,143.00 | 43,955.66 | 43,191.12 | -1.74\% |
| 26 |  | 3,000 | 1,050,000 | 52,685.85 | 50,434.92 | $(2,250.94)$ | -4.27\% | 42,273.00 | 94,958.85 | 92,707.92 | -2.37\% |
| 27 |  | 3,000 | 1,350,000 | 58,061.58 | 55,791.66 | $(2,269.93)$ | -3.91\% | 54,351.00 | 112,412.58 | 110,142.66 | -2.02\% |
| 28 |  | 3,000 | 1,650,000 | 63,437.31 | 61,148.40 | $(2,288.92)$ | -3.61\% | 66,429.00 | 129,866.31 | 127,577.40 | -1.76\% |
| 29 |  | 7,000 | 2,450,000 | 120,285.52 | 115,036.47 | $(5,249.04)$ | -4.36\% | 98,637.00 | 218,922.52 | 213,673.47 | -2.40\% |
| 30 |  | 7,000 | 3,150,000 | 132,828.89 | 127,535.53 | $(5,293.35)$ | -3.99\% | 126,819.00 | 259,647.89 | 254,354.53 | -2.04\% |
| 31 |  | 7,000 | 3,850,000 | 145,372.26 | 140,034.59 | $(5,337.66)$ | -3.67\% | 155,001.00 | 300,373.26 | 295,035.59 | -1.78\% |
| 32 |  |  |  |  |  |  |  |  |  |  |  |


| Line No. | Rate Code | Level of Demand <br> (A) | Level of Usage | Current Bill (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | $\begin{gathered} \% \\ \text { Increase } \\ (\mathrm{F}=\mathrm{E} \div \mathrm{C}) \\ \hline \end{gathered}$ | Annualized Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $\text { ( } \mathrm{H}=\mathrm{C}+\mathrm{G} \text { ) }$ | Proposed <br> Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 136 of 154 <br> \% Change ( $\mathrm{J}=\mathrm{E} \div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-3 |  |  |  |  |  |  | 0.03886 |  |  |  |
| 2 | Primary | 10 | 3,500 | 326.88 | 324.26 | (2.62) | -0.80\% | 136.01 | 462.89 | 460.27 | -0.57\% |
| 3 |  | 10 | 4,500 | 347.40 | 357.29 | 9.89 | 2.85\% | 174.87 | 522.27 | 532.16 | 1.89\% |
| 4 |  | 10 | 5,500 | 367.92 | 377.75 | 9.83 | 2.67\% | 213.73 | 581.65 | 591.48 | 1.69\% |
| 5 |  | 25 | 8,750 | 595.30 | 595.06 | (0.24) | -0.04\% | 340.03 | 935.32 | 935.08 | -0.03\% |
| 6 |  | 25 | 11,250 | 646.60 | 646.20 | (0.40) | -0.06\% | 437.18 | 1,083.77 | 1,083.37 | -0.04\% |
| 7 |  | 25 | 13,750 | 697.90 | 697.34 | (0.56) | -0.08\% | 534.33 | 1,232.22 | 1,231.67 | -0.05\% |
| 8 |  | 50 | 17,500 | 1,041.26 | 1,024.03 | (17.23) | -1.65\% | 680.05 | 1,721.31 | 1,704.08 | -1.00\% |
| 9 |  | 50 | 22,500 | 1,141.06 | 1,123.51 | (17.55) | -1.54\% | 874.35 | 2,015.41 | 1,997.86 | -0.87\% |
| 10 |  | 50 | 27,500 | 1,240.86 | 1,222.99 | (17.86) | -1.44\% | 1,068.65 | 2,309.51 | 2,291.64 | -0.77\% |
| 11 |  | 75 | 26,250 | 1,483.72 | 1,449.50 | (34.22) | -2.31\% | 1,020.08 | 2,503.79 | 2,469.57 | -1.37\% |
| 12 |  | 75 | 33,750 | 1,633.42 | 1,598.72 | (34.70) | -2.12\% | 1,311.53 | 2,944.94 | 2,910.25 | -1.18\% |
| 13 |  | 75 | 41,250 | 1,783.12 | 1,747.95 | (35.17) | -1.97\% | 1,602.98 | 3,386.09 | 3,350.92 | -1.04\% |
| 14 |  | 100 | 35,000 | 1,926.18 | 1,874.97 | (51.21) | -2.66\% | 1,360.10 | 3,286.28 | 3,235.07 | -1.56\% |
| 15 |  | 100 | 45,000 | 2,125.78 | 2,073.94 | (51.85) | -2.44\% | 1,748.70 | 3,874.48 | 3,822.64 | -1.34\% |
| 16 |  | 100 | 55,000 | 2,325.38 | 2,272.90 | (52.48) | -2.26\% | 2,137.30 | 4,462.68 | 4,410.20 | -1.18\% |
| 17 |  | 200 | 70,000 | 3,696.02 | 3,576.85 | (119.18) | -3.22\% | 2,720.20 | 6,416.22 | 6,297.05 | -1.86\% |
| 18 |  | 200 | 90,000 | 4,095.22 | 3,974.78 | (120.44) | -2.94\% | 3,497.40 | 7,592.62 | 7,472.18 | -1.59\% |
| 19 |  | 200 | 110,000 | 4,494.42 | 4,372.72 | (121.71) | -2.71\% | 4,274.60 | 8,769.02 | 8,647.32 | -1.39\% |
| 20 |  | 500 | 175,000 | 9,005.56 | 8,682.49 | (323.06) | -3.59\% | 6,800.50 | 15,806.06 | 15,482.99 | -2.04\% |
| 21 |  | 500 | 225,000 | 10,003.56 | 9,677.33 | (326.23) | -3.26\% | 8,743.50 | 18,747.06 | 18,420.83 | -1.74\% |
| 22 |  | 500 | 275,000 | 11,001.56 | 10,672.16 | (329.39) | -2.99\% | 10,686.50 | 21,688.06 | 21,358.66 | -1.52\% |
| 23 |  | 1,000 | 350,000 | 17,854.78 | 17,191.90 | (662.88) | -3.71\% | 13,601.00 | 31,455.78 | 30,792.90 | -2.11\% |
| 24 |  | 1,000 | 450,000 | 19,850.78 | 19,181.57 | (669.21) | -3.37\% | 17,487.00 | 37,337.78 | 36,668.57 | -1.79\% |
| 25 |  | 1,000 | 550,000 | 21,846.78 | 21,171.24 | (675.54) | -3.09\% | 21,373.00 | 43,219.78 | 42,544.24 | -1.56\% |
| 26 |  | 3,000 | 1,050,000 | 52,747.74 | 50,725.61 | $(2,022.13)$ | -3.83\% | 40,803.00 | 93,550.74 | 91,528.61 | -2.16\% |
| 27 |  | 3,000 | 1,350,000 | 58,039.08 | 55,997.96 | $(2,041.12)$ | -3.52\% | 52,461.00 | 110,500.08 | 108,458.96 | -1.85\% |
| 28 |  | 3,000 | 1,650,000 | 63,330.42 | 61,270.31 | $(2,060.11)$ | -3.25\% | 64,119.00 | 127,449.42 | 125,389.31 | -1.62\% |
| 29 |  | 7,000 | 2,450,000 | 120,290.41 | 115,549.77 | (4,740.64) | -3.94\% | 95,207.00 | 215,497.41 | 210,756.77 | -2.20\% |
| 30 |  | 7,000 | 3,150,000 | 132,636.87 | 127,851.92 | $(4,784.95)$ | -3.61\% | 122,409.00 | 255,045.87 | 250,260.92 | -1.88\% |
| 31 |  | 7,000 | 3,850,000 | 144,983.33 | 140,154.07 | $(4,829.26)$ | -3.33\% | 149,611.00 | 294,594.33 | 289,765.07 | -1.64\% |
| 32 |  |  |  |  |  |  |  |  |  |  |  |


| Line No. | Rate Code | Level of Demand <br> (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% <br> Increase $(F=E \div C)$ | Annualized <br> Fuel Cost Additions to Bill <br> (G) | Current <br> Total Bill Including Fuel $\text { ( } \mathrm{H}=\mathrm{C}+\mathrm{G} \text { ) }$ | Proposed Total Bill Including Fuel ( $\mathrm{I}=\mathrm{D}+\mathrm{G}$ ) | Schedule E-5 Page 137 of 154 $\begin{gathered} \text { \% Change } \\ (\mathrm{J}=\mathrm{E} \div \mathrm{H}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-3 |  |  |  |  |  |  | 0.03809 |  |  |  |
| 2 | Subtransmission | 10 | 3,500 | 853.98 | 946.14 | 92.17 | 10.79\% | 133.32 | 987.29 | 1,079.46 | 9.34\% |
| 3 |  | 10 | 4,500 | 870.42 | 962.53 | 92.10 | 10.58\% | 171.41 | 1,041.83 | 1,133.93 | 8.84\% |
| 4 |  | 10 | 5,500 | 886.87 | 978.91 | 92.04 | 10.38\% | 209.50 | 1,096.36 | 1,188.40 | 8.39\% |
| 5 |  | 25 | 8,750 | 1,013.66 | 1,122.07 | 108.40 | 10.69\% | 333.29 | 1,346.95 | 1,455.35 | 8.05\% |
| 6 |  | 25 | 11,250 | 1,054.77 | 1,163.02 | 108.24 | 10.26\% | 428.51 | 1,483.29 | 1,591.53 | 7.30\% |
| 7 |  | 25 | 13,750 | 1,095.89 | 1,203.97 | 108.09 | 9.86\% | 523.74 | 1,619.62 | 1,727.71 | 6.67\% |
| 8 |  | 50 | 17,500 | 1,278.40 | 1,413.87 | 135.46 | 10.60\% | 666.58 | 1,944.98 | 2,080.44 | 6.96\% |
| 9 |  | 50 | 22,500 | 1,357.83 | 1,492.97 | 135.15 | 9.95\% | 857.03 | 2,214.85 | 2,350.00 | 6.10\% |
| 10 |  | 50 | 27,500 | 1,437.25 | 1,572.08 | 134.83 | 9.38\% | 1,047.48 | 2,484.72 | 2,619.56 | 5.43\% |
| 11 |  | 75 | 26,250 | 1,539.64 | 1,702.17 | 162.53 | 10.56\% | 999.86 | 2,539.51 | 2,702.03 | 6.40\% |
| 12 |  | 75 | 33,750 | 1,658.78 | 1,820.83 | 162.05 | 9.77\% | 1,285.54 | 2,944.32 | 3,106.37 | 5.50\% |
| 13 |  | 75 | 41,250 | 1,777.91 | 1,939.49 | 161.58 | 9.09\% | 1,571.21 | 3,349.13 | 3,510.70 | 4.82\% |
| 14 |  | 100 | 35,000 | 1,800.88 | 1,990.47 | 189.59 | 10.53\% | 1,333.15 | 3,134.03 | 3,323.62 | 6.05\% |
| 15 |  | 100 | 45,000 | 1,959.73 | 2,148.68 | 188.95 | 9.64\% | 1,714.05 | 3,673.78 | 3,862.73 | 5.14\% |
| 16 |  | 100 | 55,000 | 2,118.58 | 2,306.90 | 188.32 | 8.89\% | 2,094.95 | 4,213.53 | 4,401.85 | 4.47\% |
| 17 |  | 200 | 70,000 | 2,845.84 | 3,143.68 | 297.83 | 10.47\% | 2,666.30 | 5,512.14 | 5,809.98 | 5.40\% |
| 18 |  | 200 | 90,000 | 3,163.54 | 3,460.10 | 296.57 | 9.37\% | 3,428.10 | 6,591.64 | 6,888.20 | 4.50\% |
| 19 |  | 200 | 110,000 | 3,481.23 | 3,776.53 | 295.30 | 8.48\% | 4,189.90 | 7,671.13 | 7,966.43 | 3.85\% |
| 20 |  | 500 | 175,000 | 5,980.73 | 6,603.30 | 622.57 | 10.41\% | 6,665.75 | 12,646.48 | 13,269.05 | 4.92\% |
| 21 |  | 500 | 225,000 | 6,774.96 | 7,394.36 | 619.40 | 9.14\% | 8,570.25 | 15,345.21 | 15,964.61 | 4.04\% |
| 22 |  | 500 | 275,000 | 7,569.19 | 8,185.43 | 616.24 | 8.14\% | 10,474.75 | 18,043.94 | 18,660.18 | 3.42\% |
| 23 |  | 1,000 | 350,000 | 11,205.53 | 12,369.33 | 1,163.80 | 10.39\% | 13,331.50 | 24,537.03 | 25,700.83 | 4.74\% |
| 24 |  | 1,000 | 450,000 | 12,793.99 | 13,951.46 | 1,157.47 | 9.05\% | 17,140.50 | 29,934.49 | 31,091.96 | 3.87\% |
| 25 |  | 1,000 | 550,000 | 14,382.45 | 15,533.59 | 1,151.14 | 8.00\% | 20,949.50 | 35,331.95 | 36,483.09 | 3.26\% |
| 26 |  | 3,000 | 1,050,000 | 31,600.84 | 33,034.94 | 1,434.10 | 4.54\% | 39,994.50 | 71,595.34 | 73,029.44 | 2.00\% |
| 27 |  | 3,000 | 1,350,000 | 35,669.56 | 37,084.67 | 1,415.11 | 3.97\% | 51,421.50 | 87,091.06 | 88,506.17 | 1.62\% |
| 28 |  | 3,000 | 1,650,000 | 39,738.28 | 41,134.40 | 1,396.12 | 3.51\% | 62,848.50 | 102,586.78 | 103,982.90 | 1.36\% |
| 29 |  | 7,000 | 2,450,000 | 70,148.20 | 68,333.68 | $(1,814.52)$ | -2.59\% | 93,320.50 | 163,468.70 | 161,654.18 | -1.11\% |
| 30 |  | 7,000 | 3,150,000 | 79,641.88 | 77,783.05 | $(1,858.83)$ | -2.33\% | 119,983.50 | 199,625.38 | 197,766.55 | -0.93\% |
| 31 |  | 7,000 | 3,850,000 | 89,135.56 | 87,232.42 | $(1,903.14)$ | -2.14\% | 146,646.50 | 235,782.06 | 233,878.92 | -0.81\% |
| 32 |  |  |  |  |  |  |  |  |  |  |  |


| Line No. | Rate Code | Level of Demand <br> (A) | Level of Usage (B) | $\begin{aligned} & \text { Current } \\ & \text { Bill } \\ & \text { (C) } \end{aligned}$ | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | $\begin{gathered} \% \\ \text { Increase } \\ \text { (F=E〒C)} \\ \hline \end{gathered}$ | Annualized <br> Fuel Cost Additions to Bill <br> (G) | Current <br> Total Bill Including Fuel $(H=C+G)$ | Proposed <br> Total Bill <br> Including <br> Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 138 of 154 <br> \% Change (J=E $\div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP GS-4 |  |  |  |  |  |  | 0.03886 |  |  |  |
| 2 | Primary | 3,000 | 1,200,000 | 55,393.41 | 53,361.78 | $(2,031.63)$ | -3.67\% | 46,632.00 | 102,025.41 | 99,993.78 | -1.99\% |
| 3 |  | 3,000 | 1,500,000 | 60,684.75 | 58,634.13 | $(2,050.62)$ | -3.38\% | 58,290.00 | 118,974.75 | 116,924.13 | -1.72\% |
| 4 |  | 3,000 | 1,800,000 | 65,976.09 | 63,906.48 | $(2,069.61)$ | -3.14\% | 69,948.00 | 135,924.09 | 133,854.48 | -1.52\% |
| 5 |  | 5,000 | 2,000,000 | 90,928.53 | 87,531.31 | $(3,397.21)$ | -3.74\% | 77,720.00 | 168,648.53 | 165,251.31 | -2.01\% |
| 6 |  | 5,000 | 2,500,000 | 99,747.43 | 96,318.56 | $(3,428.86)$ | -3.44\% | 97,150.00 | 196,897.43 | 193,468.56 | -1.74\% |
| 7 |  | 5,000 | 3,000,000 | 108,566.33 | 105,105.81 | $(3,460.51)$ | -3.19\% | 116,580.00 | 225,146.33 | 221,685.81 | -1.54\% |
| 8 |  | 8,000 | 3,200,000 | 144,231.20 | 138,785.62 | $(5,445.59)$ | -3.78\% | 124,352.00 | 268,583.20 | 263,137.62 | -2.03\% |
| 9 |  | 8,000 | 4,000,000 | 158,341.44 | 152,845.22 | $(5,496.23)$ | -3.47\% | 155,440.00 | 313,781.44 | 308,285.22 | -1.75\% |
| 10 |  | 8,000 | 4,800,000 | 172,451.68 | 166,904.82 | $(5,546.87)$ | -3.22\% | 186,528.00 | 358,979.68 | 353,432.82 | -1.55\% |
| 11 |  | 20,000 | 8,000,000 | 357,441.91 | 343,802.82 | $(13,639.09)$ | -3.82\% | 310,880.00 | 668,321.91 | 654,682.82 | -2.04\% |
| 12 |  | 20,000 | 10,000,000 | 392,717.51 | 378,951.82 | $(13,765.69)$ | -3.51\% | 388,600.00 | 781,317.51 | 767,551.82 | -1.76\% |
| 13 |  | 20,000 | 12,000,000 | 427,993.11 | 414,100.82 | $(13,892.29)$ | -3.25\% | 466,320.00 | 894,313.11 | 880,420.82 | -1.55\% |
| 14 |  | 50,000 | 20,000,000 | 890,468.69 | 856,345.83 | $(34,122.86)$ | -3.83\% | 777,200.00 | 1,667,668.69 | 1,633,545.83 | -2.05\% |
| 15 |  | 50,000 | 25,000,000 | 978,657.69 | 944,218.33 | $(34,439.36)$ | -3.52\% | 971,500.00 | 1,950,157.69 | 1,915,718.33 | -1.77\% |
| 16 |  | 50,000 | 30,000,000 | 1,066,846.69 | 1,032,090.83 | $(34,755.86)$ | -3.26\% | 1,165,800.00 | 2,232,646.69 | 2,197,890.83 | -1.56\% |
| 17 |  | 125,000 | 50,000,000 | 2,223,035.62 | 2,137,703.36 | $(85,332.27)$ | -3.84\% | 1,943,000.00 | 4,166,035.62 | 4,080,703.36 | -2.05\% |
| 18 |  | 125,000 | 62,500,000 | 2,443,508.12 | 2,357,384.61 | $(86,123.52)$ | -3.52\% | 2,428,750.00 | 4,872,258.12 | 4,786,134.61 | -1.77\% |
| $19$ |  | 125,000 | 75,000,000 | 2,663,980.62 | 2,577,065.86 | $(86,914.77)$ | -3.26\% | 2,914,500.00 | 5,578,480.62 | 5,491,565.86 | -1.56\% |
| 20 |  |  |  |  |  |  |  |  |  |  |  |
| 21 | OP Gs-4 |  |  |  |  |  |  | 0.03809 |  |  |  |
| 22 | Subtransmission | 3,000 |  |  |  |  | 4.24\% | 45,708.00 | 79,343.20 | 80,767.80 | 1.80\% |
| 23 |  | 3,000 | 1,500,000 | 37,703.92 | 39,109.53 | 1,405.62 | 3.73\% | 57,135.00 | 94,838.92 | 96,244.53 | 1.48\% |
| 24 |  | 3,000 | 1,800,000 | 41,772.64 | 43,159.26 | 1,386.63 | 3.32\% | 68,562.00 | 110,334.64 | 111,721.26 | 1.26\% |
| 25 |  | 5,000 | 2,000,000 | 54,265.12 | 54,059.08 | (206.03) | -0.38\% | 76,180.00 | 130,445.12 | 130,239.08 | -0.16\% |
| 26 |  | 5,000 | 2,500,000 | 61,046.32 | 60,808.63 | (237.68) | -0.39\% | 95,225.00 | 156,271.32 | 156,033.63 | -0.15\% |
| 27 |  | 5,000 | 3,000,000 | 67,827.52 | 67,558.18 | (269.33) | -0.40\% | 114,270.00 | 182,097.52 | 181,828.18 | -0.15\% |
| 28 |  | 8,000 | 3,200,000 | 85,210.00 | 82,558.00 | $(2,651.99)$ | -3.11\% | 121,888.00 | 207,098.00 | 204,446.00 | -1.28\% |
| 29 |  | 8,000 | 4,000,000 | 96,059.92 | 93,357.28 | (2,702.63) | -2.81\% | 152,360.00 | 248,419.92 | 245,717.28 | -1.09\% |
| 30 |  | 8,000 | 4,800,000 | 106,909.84 | 104,156.56 | $(2,753.27)$ | -2.58\% | 182,832.00 | 289,741.84 | 286,988.56 | -0.95\% |
| 31 |  | 20,000 | 8,000,000 | 208,989.52 | 196,553.68 | $(12,435.83)$ | -5.95\% | 304,720.00 | 513,709.52 | 501,273.68 | -2.42\% |
| 32 |  | 20,000 | 10,000,000 | 236,114.32 | 223,551.88 | $(12,562.43)$ | -5.32\% | 380,900.00 | 617,014.32 | 604,451.88 | -2.04\% |
| 33 |  | 20,000 | 12,000,000 | 263,239.12 | 250,550.08 | $(12,689.03)$ | -4.82\% | 457,080.00 | 720,319.12 | 707,630.08 | -1.76\% |
| 34 |  | 50,000 | 20,000,000 | 518,438.32 | 481,542.88 | $(36,895.43)$ | -7.12\% | 761,800.00 | 1,280,238.32 | 1,243,342.88 | -2.88\% |


| Line No. |  | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | $\begin{aligned} & \text { Current } \\ & \text { Bill } \\ & \text { (C) } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | $\begin{gathered} \% \\ \text { Increase } \\ \text { (F = } \mathrm{E} \div \mathrm{C}) \\ \hline \end{gathered}$ | Annualized Fuel Cost Additions to Bill (G) | Current <br> Total Bill <br> Including <br> Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed <br> Total Bill <br> Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 139 of 154 <br> \% Change ( $\mathrm{J}=\mathrm{E} \div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP | GS-4 | 50,000 | 25,000,000 | 586,250.32 | 549,038.38 | $(37,211.93)$ | -6.35\% | 952,250.00 | 1,538,500.32 | 1,501,288.38 | -2.42\% |
| 2 |  | Subtransmission (cont'c | 50,000 | 30,000,000 | 654,062.32 | 616,533.88 | $(37,528.43)$ | -5.74\% | 1,142,700.00 | 1,796,762.32 | 1,759,233.88 | -2.09\% |
| 3 |  |  | 125,000 | 50,000,000 | 1,292,060.32 | 1,194,015.88 | $(98,044.43)$ | -7.59\% | 1,904,500.00 | 3,196,560.32 | 3,098,515.88 | -3.07\% |
| 4 |  |  | 125,000 | 62,500,000 | 1,461,590.32 | 1,362,754.63 | $(98,835.68)$ | -6.76\% | 2,380,625.00 | 3,842,215.32 | 3,743,379.63 | -2.57\% |
| 5 |  |  | 125,000 | 75,000,000 | 1,631,120.32 | 1,531,493.38 | $(99,626.93)$ | -6.11\% | 2,856,750.00 | 4,487,870.32 | 4,388,243.38 | -2.22\% |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | OP | GS-4 |  |  |  |  |  |  |  |  |  |  |
| 8 |  | Transmission | 3,000 | 1,200,000 | 33,635.20 | 35,059.80 | 1,424.61 | 4.24\% | 45,708.00 | 79,343.20 | 80,767.80 | 1.80\% |
| 9 |  |  | 3,000 | 1,500,000 | 37,703.92 | 39,109.53 | 1,405.62 | 3.73\% | 57,135.00 | 94,838.92 | 96,244.53 | 1.48\% |
| 10 |  |  | 3,000 | 1,800,000 | 41,772.64 | 43,159.26 | 1,386.63 | 3.32\% | 68,562.00 | 110,334.64 | 111,721.26 | 1.26\% |
| 11 |  |  | 5,000 | 2,000,000 | 54,265.12 | 54,059.08 | (206.03) | -0.38\% | 76,180.00 | 130,445.12 | 130,239.08 | -0.16\% |
| 12 |  |  | 5,000 | 2,500,000 | 61,046.32 | 60,808.63 | (237.68) | -0.39\% | 95,225.00 | 156,271.32 | 156,033.63 | -0.15\% |
| 13 |  |  | 5,000 | 3,000,000 | 67,827.52 | 67,558.18 | (269.33) | -0.40\% | 114,270.00 | 182,097.52 | 181,828.18 | -0.15\% |
| 14 |  |  | 8,000 | 3,200,000 | 85,210.00 | 82,558.00 | (2,651.99) | -3.11\% | 121,888.00 | 207,098.00 | 204,446.00 | -1.28\% |
| 15 |  |  | 8,000 | 4,000,000 | 96,059.92 | 93,357.28 | (2,702.63) | -2.81\% | 152,360.00 | 248,419.92 | 245,717.28 | -1.09\% |
| 16 |  |  | 8,000 | 4,800,000 | 106,909.84 | 104,156.56 | (2,753.27) | -2.58\% | 182,832.00 | 289,741.84 | 286,988.56 | -0.95\% |
| 17 |  |  | 20,000 | 8,000,000 | 208,989.52 | 196,553.68 | $(12,435.83)$ | -5.95\% | 304,720.00 | 513,709.52 | 501,273.68 | -2.42\% |
| 18 |  |  | 20,000 | 10,000,000 | 236,114.32 | 223,551.88 | $(12,562.43)$ | -5.32\% | 380,900.00 | 617,014.32 | 604,451.88 | -2.04\% |
| 19 |  |  | 20,000 | 12,000,000 | 263,239.12 | 250,550.08 | $(12,689.03)$ | -4.82\% | 457,080.00 | 720,319.12 | 707,630.08 | -1.76\% |
| 20 |  |  | 50,000 | 20,000,000 | 518,438.32 | 481,542.88 | $(36,895.43)$ | -7.12\% | 761,800.00 | 1,280,238.32 | 1,243,342.88 | -2.88\% |
| 21 |  |  | 50,000 | 25,000,000 | 586,250.32 | 549,038.38 | $(37,211.93)$ | -6.35\% | 952,250.00 | 1,538,500.32 | 1,501,288.38 | -2.42\% |
| 22 |  |  | 50,000 | 30,000,000 | 654,062.32 | 616,533.88 | $(37,528.43)$ | -5.74\% | 1,142,700.00 | 1,796,762.32 | 1,759,233.88 | -2.09\% |
| 23 |  |  | 125,000 | 50,000,000 | 1,292,060.32 | 1,194,015.88 | $(98,044.43)$ | -7.59\% | 1,904,500.00 | 3,196,560.32 | 3,098,515.88 | -3.07\% |
| 24 |  |  | 125,000 | 62,500,000 | 1,461,590.32 | 1,362,754.63 | $(98,835.68)$ | -6.76\% | 2,380,625.00 | 3,842,215.32 | 3,743,379.63 | -2.57\% |
| 25 |  |  | 125,000 | 75,000,000 | 1,631,120.32 | 1,531,493.38 | $(99,626.93)$ | -6.11\% | 2,856,750.00 | 4,487,870.32 | 4,388,243.38 | -2.22\% |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  |


| Line No. |  |  | Rate Code | Level of Demand (A) | Level of Usage (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(H=C+G)$ | Proposed <br> Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 140 of 154 $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP |  |  |  |  |  |  |  |  | 0.04026 |  |  |  |
| 2 |  |  |  | 30 | 100 | 184.44 | 138.79 | (45.65) | -24.75\% | 4.03 | 188.47 | 142.81 | -24.22\% |
| 3 |  |  |  | 30 | 500 | 200.59 | 152.11 | (48.49) | -24.17\% | 20.13 | 220.72 | 172.24 | -21.97\% |
| 4 |  |  |  | 30 | 1,000 | 220.79 | 168.76 | (52.03) | -23.56\% | 40.26 | 261.05 | 209.02 | -19.93\% |
| 5 |  |  |  | 30 | 3,000 | 301.10 | 234.92 | (66.18) | -21.98\% | 120.78 | 421.88 | 355.70 | -15.69\% |
| 6 |  |  |  | 30 | 4,500 | 360.99 | 284.19 | (76.80) | -21.28\% | 181.17 | 542.16 | 465.36 | -14.17\% |
| 7 |  |  |  | 30 | 6,000 | 420.88 | 333.46 | (87.42) | -20.77\% | 241.56 | 662.44 | 575.02 | -13.20\% |
| 8 |  |  |  | 30 | 9,000 | 540.66 | 432.00 | (108.66) | -20.10\% | 362.34 | 903.00 | 794.34 | -12.03\% |
| 9 |  |  |  | 30 | 12,000 | 660.44 | 530.54 | (129.90) | -19.67\% | 483.12 | 1,143.56 | 1,013.66 | -11.36\% |
| 10 |  |  |  | 30 | 15,000 | 780.22 | 629.08 | (151.14) | -19.37\% | 603.90 | 1,384.12 | 1,232.98 | -10.92\% |
| 11 |  |  |  | 30 | 20,000 | 977.05 | 790.51 | (186.54) | -19.09\% | 805.20 | 1,782.25 | 1,595.71 | -10.47\% |
| 12 |  |  |  | 50 | 5,000 | 507.73 | 498.63 | (9.10) | -1.79\% | 201.30 | 709.03 | 699.93 | -1.28\% |
| 13 |  |  |  | 50 | 7,500 | 607.54 | 580.74 | (26.80) | -4.41\% | 301.95 | 909.49 | 882.69 | -2.95\% |
| 14 |  |  |  | 50 | 10,000 | 707.36 | 662.86 | (44.50) | -6.29\% | 402.60 | 1,109.96 | 1,065.46 | -4.01\% |
| 15 |  |  |  | 50 | 15,000 | 906.99 | 827.09 | (79.90) | -8.81\% | 603.90 | 1,510.89 | 1,430.99 | -5.29\% |
| 16 |  |  |  | 50 | 20,000 | 1,103.83 | 988.53 | (115.30) | -10.45\% | 805.20 | 1,909.03 | 1,793.73 | -6.04\% |
| 17 |  |  |  | 50 | 25,000 | 1,300.66 | 1,149.96 | (150.70) | -11.59\% | 1,006.50 | 2,307.16 | 2,156.46 | -6.53\% |
| 18 |  |  |  | 100 | 10,000 | 1,024.29 | 1,157.90 | 133.62 | 13.04\% | 402.60 | 1,426.89 | 1,560.50 | 9.36\% |
| 19 |  |  |  | 100 | 15,000 | 1,223.92 | 1,322.14 | 98.22 | 8.02\% | 603.90 | 1,827.82 | 1,926.04 | 5.37\% |
| 20 |  |  |  | 100 | 20,000 | 1,420.75 | 1,483.57 | 62.82 | 4.42\% | 805.20 | 2,225.95 | 2,288.77 | 2.82\% |
| 21 |  |  |  | 100 | 30,000 | 1,814.42 | 1,806.44 | (7.98) | -0.44\% | 1,207.80 | 3,022.22 | 3,014.24 | -0.26\% |
| 22 |  |  |  | 100 | 40,000 | 2,208.09 | 2,129.31 | (78.78) | -3.57\% | 1,610.40 | 3,818.49 | 3,739.71 | -2.06\% |
| 23 |  |  |  | 200 | 20,000 | 2,054.61 | 2,473.66 | 419.04 | 20.40\% | 805.20 | 2,859.81 | 3,278.86 | 14.65\% |
| 24 |  |  |  | 200 | 30,000 | 2,448.28 | 2,796.52 | 348.24 | 14.22\% | 1,207.80 | 3,656.08 | 4,004.32 | 9.53\% |
| 25 |  |  |  | 200 | 40,000 | 2,841.95 | 3,119.39 | 277.45 | 9.76\% | 1,610.40 | 4,452.35 | 4,729.79 | 6.23\% |
| 26 |  |  |  | 200 | 60,000 | 3,629.28 | 3,765.13 | 135.85 | 3.74\% | 2,415.60 | 6,044.88 | 6,180.73 | 2.25\% |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |  |  |  | 0.04026 |  |  |  |
| 29 | OP | EHS |  | 55 | 15,000 | 575.12 | 651.35 | 76.23 | 13.25\% | 603.90 | 1,179.02 | 1,255.25 | 6.47\% |
| 30 |  |  |  | 150 | 30,000 | 1,110.77 | 1,273.42 | 162.66 | 14.64\% | 1,207.80 | 2,318.57 | 2,481.22 | 7.02\% |
| 31 |  |  |  | 225 | 65,000 | 2,360.61 | 2,724.93 | 364.31 | 15.43\% | 2,616.90 | 4,977.51 | 5,341.83 | 7.32\% |
| 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Line No. |  | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | Current Bill (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel (H = C+G) | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 141 of 154 $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  | 10 | 1,500 | 135.73 | 97.13 | (38.60) | -28.44\% | 60.39 | 196.12 | 157.52 | -19.68\% |
| 3 |  |  | 10 | 3,000 | 212.60 | 173.84 | (38.76) | -18.23\% | 120.78 | 333.38 | 294.62 | -11.63\% |
| 4 |  |  | 10 | 4,500 | 289.24 | 250.31 | (38.93) | -13.46\% | 181.17 | 470.41 | 431.48 | -8.28\% |
| 5 |  |  | 20 | 2,000 | 161.50 | 122.85 | (38.66) | -23.93\% | 80.52 | 242.02 | 203.37 | -15.97\% |
| 6 |  |  | 20 | 4,000 | 263.70 | 224.82 | (38.87) | -14.74\% | 161.04 | 424.74 | 385.86 | -9.15\% |
| 7 |  |  | 20 | 6,000 | 365.89 | 326.79 | (39.09) | -10.68\% | 241.56 | 607.45 | 568.35 | -6.44\% |
| 8 |  |  | 40 | 5,000 | 314.79 | 275.81 | (38.98) | -12.38\% | 201.30 | 516.09 | 477.11 | -7.55\% |
| 9 |  |  | 40 | 7,500 | 442.53 | 403.27 | (39.26) | -8.87\% | 301.95 | 744.48 | 705.22 | -5.27\% |
| 10 |  |  | 40 | 10,000 | 570.27 | 530.74 | (39.53) | -6.93\% | 402.60 | 972.87 | 933.34 | -4.06\% |
| 11 |  |  | 50 | 10,000 | 570.27 | 530.74 | (39.53) | -6.93\% | 402.60 | 972.87 | 933.34 | -4.06\% |
| 12 |  |  | 50 | 15,000 | 825.75 | 785.67 | (40.08) | -4.85\% | 603.90 | 1,429.65 | 1,389.57 | -2.80\% |
| 13 |  |  | 50 | 20,000 | 1,078.43 | 1,037.80 | (40.62) | -3.77\% | 805.20 | 1,883.63 | 1,843.00 | -2.16\% |
| 14 |  |  | 100 | 20,000 | 1,078.43 | 1,037.80 | (40.62) | -3.77\% | 805.20 | 1,883.63 | 1,843.00 | -2.16\% |
| 15 |  |  | 100 | 25,000 | 1,331.10 | 1,289.94 | (41.17) | -3.09\% | 1,006.50 | 2,337.60 | 2,296.44 | -1.76\% |
| 16 |  |  | 100 | 30,000 | 1,583.78 | 1,542.07 | (41.71) | -2.63\% | 1,207.80 | 2,791.58 | 2,749.87 | -1.49\% |
| 17 |  |  | 200 | 40,000 | 2,089.14 | 2,046.33 | (42.81) | -2.05\% | 1,610.40 | 3,699.54 | 3,656.73 | -1.16\% |
| 18 |  |  | 200 | 60,000 | 3,099.85 | 3,054.86 | (44.99) | -1.45\% | 2,415.60 | 5,515.45 | 5,470.46 | -0.82\% |
| 19 |  |  | 300 | 60,000 | 3,099.85 | 3,054.86 | (44.99) | -1.45\% | 2,415.60 | 5,515.45 | 5,470.46 | -0.82\% |
| 20 |  |  | 300 | 80,000 | 4,110.57 | 4,063.39 | (47.17) | -1.15\% | 3,220.80 | 7,331.37 | 7,284.19 | -0.64\% |
| 21 |  |  | 400 | 80,000 | 4,110.57 | 4,063.39 | (47.17) | -1.15\% | 3,220.80 | 7,331.37 | 7,284.19 | -0.64\% |
| 22 |  |  | 400 | 120,000 | 6,131.99 | 6,080.45 | (51.54) | -0.84\% | 4,831.20 | 10,963.19 | 10,911.65 | -0.47\% |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | OP | OL |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  | Mercury Vapor |  |  |  |  |  |  | 0.04026 |  |  |  |
| 27 |  |  |  | 72 | 9.82 | 9.34 | (0.47) | -4.81\% | 2.90 | 12.72 | 12.24 | -3.72\% |
| 28 |  |  |  | 158 | 13.76 | 14.70 | 0.94 | 6.82\% | 6.36 | 20.12 | 21.06 | 4.66\% |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  | High Pressure Sodium |  |  |  |  |  |  |  |  |  |  |
| 31 |  |  |  | 40 | 8.19 | 7.25 | (0.94) | -11.45\% | 1.61 | 9.80 | 8.86 | -9.57\% |
| 32 |  |  |  | 84 | 10.39 | 9.69 | (0.70) | -6.78\% | 3.38 | 13.78 | 13.07 | -5.12\% |
| 33 |  |  |  |  |  |  |  |  |  |  |  |  |
| 34 |  | Incandescent |  |  |  |  |  |  |  |  |  |  |
| 35 |  |  |  | 63 | 11.97 | 10.32 | (1.65) | -13.79\% | 2.54 | 14.51 | 12.86 | -11.38\% |
| 36 |  |  |  | 98 | 13.45 | 10.95 | (2.50) | -18.58\% | 3.95 | 17.40 | 14.90 | -14.37\% |


| Line No. |  | Rate <br> Code Level of <br> Demand <br> (A) | Level of Usage <br> (B) | Current Bill <br> (C) | Proposed Bill (D) | Dollar Increase (E=D-C) | $\begin{gathered} \% \\ \text { Increase } \\ (\mathrm{F}=\mathrm{E} \div \mathrm{C}) \end{gathered}$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel (H = C+G) | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 142 of 154 <br> \% Change ( $\mathrm{J}=\mathrm{E} \div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP | OL (cont'd) |  |  |  |  |  |  |  |  |  |
| 2 |  | MV Floodlight |  |  |  |  |  |  |  |  |  |
| 3 |  |  | 158 | 16.61 | 14.70 | (1.91) | -11.53\% | 6.36 | 22.97 | 21.06 | -8.34\% |
| 4 |  |  | 378 | 22.60 | 20.05 | (2.55) | -11.27\% | 15.22 | 37.82 | 35.27 | -6.73\% |
| 5 |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  | HPS Floodlight |  |  |  |  |  |  |  |  |  |
| 7 |  |  | 84 | 10.36 | 9.69 | (0.67) | -6.50\% | 3.38 | 13.74 | 13.07 | -4.90\% |
| 8 |  |  | 167 | 12.84 | 12.90 | 0.07 | 0.51\% | 6.72 | 19.56 | 19.63 | 0.33\% |
| 9 |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  | MH Floodlight |  |  |  |  |  |  |  |  |  |
| 11 |  |  | 100 | 13.00 | 11.72 | (1.28) | -9.84\% | 4.03 | 17.03 | 15.75 | -7.52\% |
| 12 |  |  | 158 | 13.16 | 12.36 | (0.80) | -6.06\% | 6.36 | 19.52 | 18.73 | -4.08\% |
| 13 |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  | Post Top-MV |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 15 \\ & 16 \end{aligned}$ |  |  | 72 | 16.04 | 15.27 | (0.77) | -4.83\% | 2.90 | 18.94 | 18.16 | -4.09\% |
| 17 |  | Post Top-HPS |  |  |  |  |  |  |  |  |  |
| 18 |  |  | 40 | 14.72 | 14.25 | (0.47) | -3.20\% | 1.61 | 16.33 | 15.86 | -2.89\% |
| 19 |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  | Facilities Charges: |  |  |  |  |  |  |  |  |  |
| 21 |  | Underground circuit per 25 feet over 30 fet | 0 | 0.86 | - | (0.86) | -100.00\% | - | 0.86 | - | -100.00\% |
| 22 |  |  |  |  |  |  |  |  |  |  |  |
| 23 | OP | SL |  |  |  |  |  |  |  |  |  |
| 24 |  | On Wood Pole |  |  |  |  |  |  |  |  |  |
| 25 |  | 7,000 lumen mercury vapor | 72 | 7.06 | 5.42 | (1.64) | -23.26\% | 2.90 | 9.96 | 8.31 | -16.49\% |
| 26 |  | 11,000 lumen mercury vapor | 100 | 8.46 | 6.11 | (2.35) | -27.76\% | 4.03 | 12.48 | 10.14 | -18.81\% |
| 27 |  | 20,000 lumen mercury vapor | 158 | 9.98 | 9.19 | (0.79) | -7.90\% | 6.36 | 16.34 | 15.55 | -4.83\% |
| 28 |  | 50,000 lumen mercury vapor | 378 | 19.75 | 20.10 | 0.36 | 1.80\% | 15.22 | 34.97 | 35.32 | 1.02\% |
| 29 |  | 9,000 lumen high pressure sodium | 40 | 5.82 | 4.89 | (0.93) | -16.00\% | 1.61 | 7.43 | 6.50 | -12.54\% |
| 30 |  | 16,000 lumen high pressure sodium | 59 | 6.26 | 5.33 | (0.93) | -14.82\% | 2.38 | 8.63 | 7.71 | -10.74\% |
| 31 |  | 22,000 lumen high pressure sodium | 84 | 7.48 | 7.23 | (0.25) | -3.33\% | 3.38 | 10.86 | 10.61 | -2.29\% |
| 32 |  | 50,000 lumen high pressure sodium | 167 | 9.47 | 11.75 | 2.29 | 24.14\% | 6.72 | 16.19 | 18.48 | 14.11\% |
| 33 |  | 9,000 lumen high pressure sodium (post 1 | 40 | 14.80 | 4.89 | (9.91) | -66.98\% | 1.61 | 16.41 | 6.50 | -60.41\% |
| 34 |  | 16,000 lumen high pressure sodium (post | 59 | 15.24 | 5.33 | (9.91) | -65.03\% | 2.38 | 17.62 | 7.71 | -56.26\% |
| 35 |  | 22,000 lumen high pressure sodium (post | 84 | 16.48 | 7.23 | (9.25) | -56.12\% | 3.38 | 19.86 | 10.61 | -46.57\% |
| 36 |  | 50,000 lumen high pressure sodium (post | 167 | 18.48 | 11.75 | (6.73) | -36.41\% | 6.72 | 25.20 | 18.48 | -26.70\% |


| Line No. |  | Rate <br> Code Level of <br> Demand <br> (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase ( $\mathrm{F}=\mathrm{E} \div \mathrm{C}$ ) | Annualized Fuel Cost Additions to Bill (G) | Current Total Bill Including Fuel $(H=C+G)$ | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 143 of 154 $\begin{gathered} \text { \% Change } \\ (\mathrm{J}=\mathrm{E} \div \mathrm{H}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | OP | SL (cont'd) |  |  |  |  |  |  |  |  |  |
| 2 |  | On Metal Pole: |  |  |  |  |  |  |  |  |  |
| 3 |  | 7,000 lumen mercury vapor | 72 | 12.45 | 5.42 | (7.03) | -56.50\% | 2.90 | 15.35 | 8.31 | -45.83\% |
| 4 |  | 11,000 lumen mercury vapor | 100 | 14.90 | 6.11 | (8.79) | -59.00\% | 4.03 | 18.93 | 10.14 | -46.45\% |
| 5 |  | 20,000 lumen mercury vapor | 158 | 16.91 | 9.19 | (7.72) | -45.65\% | 6.36 | 23.27 | 15.55 | -33.17\% |
| 6 |  | 50,000 lumen mercury vapor | 378 | 27.35 | 20.10 | (7.25) | -26.50\% | 15.22 | 42.57 | 35.32 | -17.02\% |
| 7 |  | 9,000 lumen high pressure sodium | 40 | 13.41 | 4.89 | (8.52) | -63.54\% | 1.61 | 15.02 | 6.50 | -56.73\% |
| 8 |  | 16,000 lumen high pressure sodium | 59 | 13.81 | 5.33 | (8.48) | -61.41\% | 2.38 | 16.19 | 7.71 | -52.40\% |
| 9 |  | 22,000 lumen high pressure sodium | 84 | 15.07 | 7.23 | (7.84) | -52.01\% | 3.38 | 18.45 | 10.61 | -42.48\% |
| 10 |  | 50,000 lumen high pressure sodium | 167 | 17.05 | 11.75 | (5.30) | -31.09\% | 6.72 | 23.78 | 18.48 | -22.30\% |
| 11 |  | 9,000 lumen high pressure sodium (post 1 | 40 | 37.13 | 4.89 | (32.24) | -86.83\% | 1.61 | 38.74 | 6.50 | -83.22\% |
| 12 |  | 16,000 lumen high pressure sodium (post | 59 | 37.56 | 5.33 | (32.23) | -85.81\% | 2.38 | 39.94 | 7.71 | -80.71\% |
| 13 |  | 22,000 lumen high pressure sodium (post | 84 | 38.78 | 7.23 | (31.56) | -81.36\% | 3.38 | 42.17 | 10.61 | -74.84\% |
| 14 |  | 50,000 lumen high pressure sodium (post | 167 | 40.79 | 11.75 | (29.04) | -71.19\% | 6.72 | 47.51 | 18.48 | -61.11\% |
| 15 |  | Multiple Lamps on Metal Pole: |  |  |  |  |  |  |  |  |  |
| 16 |  | 20,000 lumen mercury vapor | 158 | 13.77 | 9.19 | (4.58) | -33.27\% | 6.36 | 20.13 | 15.55 | -22.76\% |
| 17 |  | 9,000 lumen high pressure sodium | 40 | 9.60 | 4.89 | (4.71) | -49.07\% | 1.61 | 11.21 | 6.50 | -42.02\% |
| 18 |  | 16,000 lumen high pressure sodium | 59 | 10.02 | 5.33 | (4.69) | -46.81\% | 2.38 | 12.40 | 7.71 | -37.84\% |
| 19 |  | 22,000 lumen high pressure sodium | 84 | 11.27 | 7.23 | (4.04) | -35.86\% | 3.38 | 14.65 | 10.61 | -27.59\% |
| 20 |  | 50,000 lumen high pressure sodium | 167 | 13.26 | 11.75 | (1.51) | -11.38\% | 6.72 | 19.98 | 18.48 | -7.55\% |
| 21 |  | 9,000 lumen high pressure sodium (post 1 | 40 | 21.46 | 4.89 | (16.58) | -77.23\% | 1.61 | 23.08 | 6.50 | -71.84\% |
| 22 |  | 16,000 lumen high pressure sodium (post | 59 | 21.89 | 5.33 | (16.56) | -75.65\% | 2.38 | 24.26 | 7.71 | -68.24\% |
| 23 |  | 22,000 lumen high pressure sodium (post | 84 | 23.14 | 7.23 | (15.91) | -68.76\% | 3.38 | 26.52 | 10.61 | -59.99\% |
| 24 |  | 50,000 lumen high pressure sodium (post | 167 | 25.13 | 11.75 | (13.38) | -53.23\% | 6.72 | 31.85 | 18.48 | -41.99\% |
| 25 |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  | Post Top Unit: |  |  |  |  |  |  |  |  |  |
| 27 |  | 7,000 lumen mercury vapor | 72 | 12.34 | 8.46 | (3.88) | -31.44\% | 2.90 | 15.24 | 11.36 | -25.46\% |
| 28 |  | 9,000 lumen high pressure sodium | 40 | 11.34 | 8.68 | (2.66) | -23.46\% | 1.61 | 12.95 | 10.29 | -20.55\% |
| 29 |  | 9,000 lumen high pressure sodium (post 1 | 40 | 13.75 | 8.68 | (5.07) | -36.90\% | 1.61 | 15.36 | 10.29 | -33.03\% |
| 30 |  |  |  |  |  |  |  |  |  |  |  |
| 31 |  | Facilities Charges: |  |  |  |  |  |  |  |  |  |
| 32 |  | Receptacle Charge | 0 | 2.88 | 1.87 | (1.01) | -35.01\% | - | 2.88 | 1.87 | -35.01\% |


| Line No. | Rate Code | Level of Demand <br> (A) | Level of Usage (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | $\begin{gathered} \% \\ \text { Increase } \\ (\mathrm{F}=\mathrm{E} \div \mathrm{C}) \\ \hline \end{gathered}$ | Annualized <br> Fuel Cost Additions to Bill <br> (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed <br> Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 144 of 154 $\begin{gathered} \text { \% Change } \\ (\mathrm{J}=\mathrm{E} \div \mathrm{H}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS R-R/R-R-1 |  |  |  |  |  |  | 0.04026 |  |  |  |
| 2 |  |  | 0 kW | 13.02 | 9.27 | (3.75) | -28.77\% | - | 13.02 | 9.27 | -28.77\% |
| 3 |  |  | 30 kW | 15.07 | 11.33 | (3.74) | -24.83\% | 1.21 | 16.28 | 12.54 | -22.99\% |
| 4 |  |  | 70 kW | 17.80 | 14.07 | (3.73) | -20.98\% | 2.82 | 20.62 | 16.88 | -18.11\% |
| 5 |  |  | 120 kW | 21.21 | 17.49 | (3.72) | -17.55\% | 4.83 | 26.04 | 22.32 | -14.29\% |
| 6 |  |  | 200 kW | 26.67 | 22.96 | (3.71) | -13.90\% | 8.05 | 34.72 | 31.02 | -10.67\% |
| 7 |  |  | 300 kW | 33.50 | 29.81 | (3.69) | -11.02\% | 12.08 | 45.58 | 41.89 | -8.10\% |
| 8 |  |  | 500 kW | 47.15 | 43.50 | (3.65) | -7.75\% | 20.13 | 67.28 | 63.63 | -5.43\% |
| 9 |  |  | 800 kW | 67.62 | 64.03 | (3.59) | -5.31\% | 32.21 | 99.83 | 96.24 | -3.59\% |
| 10 |  |  | $1,000 \mathrm{~kW}$ | 81.27 | 77.72 | (3.55) | -4.37\% | 40.26 | 121.53 | 117.98 | -2.92\% |
| 11 |  |  | 1,200 kW | 94.92 | 91.41 | (3.51) | -3.70\% | 48.31 | 143.23 | 139.72 | -2.45\% |
| 12 |  |  | $1,500 \mathrm{~kW}$ | 115.40 | 111.94 | (3.46) | -2.99\% | 60.39 | 175.79 | 172.33 | -1.97\% |
| 13 |  |  | 2,000 kW | 149.52 | 146.17 | (3.35) | -2.24\% | 80.52 | 230.04 | 226.69 | -1.46\% |
| 14 |  |  | 4,000 kW | 285.11 | 282.14 | (2.97) | -1.04\% | 161.04 | 446.15 | 443.18 | -0.67\% |
| 15 |  |  | 5,000 kW | 352.90 | 350.13 | (2.77) | -0.79\% | 201.30 | 554.20 | 551.43 | -0.50\% |
| 16 |  |  | $8,000 \mathrm{~kW}$ | 556.27 | 554.08 | (2.19) | -0.39\% | 322.08 | 878.35 | 876.16 | -0.25\% |
| 17 |  |  | 10,000 kW | 691.85 | 690.06 | (1.79) | -0.26\% | 402.60 | 1,094.45 | 1,092.66 | -0.16\% |
| 18 |  |  |  |  |  |  |  |  |  |  |  |
| 19 | RS |  |  |  |  |  |  |  |  |  |  |
| 20 | Demand | 10 | 2,500 | 163.79 | 156.02 | (7.77) | -4.75\% | 100.65 | 264.44 | 256.67 | -2.94\% |
| 21 |  | 10 | 3,500 | 205.93 | 196.49 | (9.44) | -4.58\% | 140.91 | 346.84 | 337.40 | -2.72\% |
| 22 |  | 15 | 3,750 | 238.71 | 228.93 | (9.78) | -4.10\% | 150.98 | 389.69 | 379.90 | -2.51\% |
| 23 |  | 15 | 5,250 | 301.92 | 289.64 | (12.28) | -4.07\% | 211.37 | 513.29 | 501.01 | -2.39\% |
| 24 |  | 20 | 5,000 | 313.63 | 301.84 | (11.79) | -3.76\% | 201.30 | 514.93 | 503.14 | -2.29\% |
| 25 |  | 20 | 7,000 | 397.91 | 382.79 | (15.12) | -3.80\% | 281.82 | 679.73 | 664.61 | -2.22\% |


| Line No. |  | Rate Code | Level of Demand <br> (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase ( $\mathrm{F}=\mathrm{E} \div \mathrm{C}$ ) | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel (H = C+G) | Proposed <br> Total Bill <br> Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 145 of 154 \% Change $(\mathrm{J}=\mathrm{E} \div \mathrm{H})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | RLM |  |  |  |  |  |  |  |  |  |  |
| 2 |  | Summer | 5 | 500 | 49.91 | 45.56 | (4.35) | -8.71\% | 20.13 | 70.04 | 65.69 | -6.21\% |
| 3 |  |  | 5 | 1,500 | 121.19 | 117.03 | (4.16) | -3.43\% | 60.39 | 181.58 | 177.42 | -2.29\% |
| 4 |  |  | 5 | 2,500 | 191.69 | 187.73 | (3.96) | -2.06\% | 100.65 | 292.34 | 288.38 | -1.35\% |
| 5 |  |  | 10 | 1,000 | 85.82 | 81.57 | (4.25) | -4.95\% | 40.26 | 126.08 | 121.83 | -3.37\% |
| 6 |  |  | 10 | 3,000 | 226.83 | 222.97 | (3.86) | -1.70\% | 120.78 | 347.61 | 343.75 | -1.11\% |
| 7 |  |  | 10 | 5,000 | 367.38 | 363.90 | (3.48) | -0.95\% | 201.30 | 568.68 | 565.20 | -0.61\% |
| 8 |  |  | 20 | 2,000 | 156.56 | 152.50 | (4.06) | -2.60\% | 80.52 | 237.08 | 233.02 | -1.71\% |
| 9 |  |  | 20 | 6,000 | 437.65 | 434.37 | (3.28) | -0.75\% | 241.56 | 679.21 | 675.93 | -0.48\% |
| 10 |  |  | 20 | 10,000 | 718.75 | 716.25 | (2.50) | -0.35\% | 402.60 | 1,121.35 | 1,118.85 | -0.22\% |
| 11 |  |  | 30 | 3,000 | 226.83 | 222.97 | (3.86) | -1.70\% | 120.78 | 347.61 | 343.75 | -1.11\% |
| 12 |  |  | 30 | 9,000 | 648.48 | 645.78 | (2.70) | -0.42\% | 362.34 | 1,010.82 | 1,008.12 | -0.27\% |
| 13 |  |  | 30 | 15,000 | 1,070.12 | 1,068.60 | (1.52) | -0.14\% | 603.90 | 1,674.02 | 1,672.50 | -0.09\% |
| 14 |  |  | 40 | 4,000 | 297.10 | 293.44 | (3.66) | -1.23\% | 161.04 | 458.14 | 454.48 | -0.80\% |
| 15 |  |  | 40 | 12,000 | 859.30 | 857.19 | (2.11) | -0.25\% | 483.12 | 1,342.42 | 1,340.31 | -0.16\% |
| 16 |  |  | 40 | 20,000 | 1,418.69 | 1,418.14 | (0.55) | -0.04\% | 805.20 | 2,223.89 | 2,223.34 | -0.02\% |
| 17 |  |  | 50 | 5,000 | 367.38 | 363.90 | (3.48) | -0.95\% | 201.30 | 568.68 | 565.20 | -0.61\% |
| 18 |  |  | 50 | 15,000 | 1,070.12 | 1,068.60 | (1.52) | -0.14\% | 603.90 | 1,674.02 | 1,672.50 | -0.09\% |
| 19 |  |  | 50 | 25,000 | 1,767.27 | 1,767.69 | 0.42 | 0.02\% | 1,006.50 | 2,773.77 | 2,774.19 | 0.02\% |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | CS | RLM |  |  |  |  |  |  |  |  |  |  |
| 22 |  | Winter | 5 | 500 | 49.91 | 45.56 | (4.35) | -8.71\% | 20.13 | 70.04 | 65.69 | -6.21\% |
| 23 |  |  | 5 | 1,500 | 118.02 | 113.86 | (4.16) | -3.53\% | 60.39 | 178.41 | 174.25 | -2.33\% |
| 24 |  |  | 5 | 2,500 | 184.73 | 180.77 | (3.96) | -2.14\% | 100.65 | 285.38 | 281.42 | -1.39\% |
| 25 |  |  | 10 | 1,000 | 84.54 | 80.29 | (4.25) | -5.03\% | 40.26 | 124.80 | 120.55 | -3.41\% |
| 26 |  |  | 10 | 3,000 | 217.98 | 214.12 | (3.86) | -1.77\% | 120.78 | 338.76 | 334.90 | -1.14\% |
| 27 |  |  | 10 | 5,000 | 350.96 | 347.49 | (3.47) | -0.99\% | 201.30 | 552.26 | 548.79 | -0.63\% |
| 28 |  |  | 20 | 2,000 | 151.49 | 147.43 | (4.06) | -2.68\% | 80.52 | 232.01 | 227.95 | -1.75\% |
| 29 |  |  | 20 | 6,000 | 417.45 | 414.17 | (3.28) | -0.79\% | 241.56 | 659.01 | 655.73 | -0.50\% |
| 30 |  |  | 20 | 10,000 | 683.41 | 680.91 | (2.50) | -0.37\% | 402.60 | 1,086.01 | 1,083.51 | -0.23\% |


| Line No. |  | Rate Code | Level of Demand <br> (A) | Level of Usage | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase ( $\mathrm{F}=\mathrm{E} \div \mathrm{C}$ ) | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed <br> Total Bill <br> Including Fuel $(I=D+G)$ | Schedule E-5 Page 146 of 154 <br> \% Change (J=E $\div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS | RLM | 30 | 3,000 | 217.98 | 214.12 | (3.86) | -1.77\% | 120.78 | 338.76 | 334.90 | -1.14\% |
| 2 |  | Winter | 30 | 9,000 | 616.92 | 614.22 | (2.70) | -0.44\% | 362.34 | 979.26 | 976.56 | -0.28\% |
| 3 |  |  | 30 | 15,000 | 1,015.86 | 1,014.33 | (1.53) | -0.15\% | 603.90 | 1,619.76 | 1,618.23 | -0.09\% |
| 4 |  |  | 40 | 4,000 | 284.47 | 280.80 | (3.67) | -1.29\% | 161.04 | 445.51 | 441.84 | -0.82\% |
| 5 |  |  | 40 | 12,000 | 816.39 | 814.28 | (2.11) | -0.26\% | 483.12 | 1,299.51 | 1,297.40 | -0.16\% |
| 6 |  |  | 40 | 20,000 | 1,345.51 | 1,344.96 | (0.55) | -0.04\% | 805.20 | 2,150.71 | 2,150.16 | -0.03\% |
| 7 |  |  | 50 | 5,000 | 350.96 | 347.49 | (3.47) | -0.99\% | 201.30 | 552.26 | 548.79 | -0.63\% |
| 8 |  |  | 50 | 15,000 | 1,015.86 | 1,014.33 | (1.53) | -0.15\% | 603.90 | 1,619.76 | 1,618.23 | -0.09\% |
| 9 |  |  | 50 | 25,000 | 1,675.15 | 1,675.58 | 0.43 | 0.03\% | 1,006.50 | 2,681.65 | 2,682.08 | 0.02\% |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | CS | RS-ES |  |  |  |  |  |  |  |  |  |  |
| 12 |  | On Peak |  | 1,000 | 79.71 | 74.97 | (4.74) | -5.95\% | 40.26 | 119.97 | 115.23 | -3.96\% |
| 13 |  | Off Peak |  | 2,000 | 145.20 | 140.66 | (4.54) | -3.13\% | 80.52 | 225.72 | 221.18 | -2.01\% |
| 14 |  |  |  | 3,000 | 210.24 | 205.89 | (4.35) | -2.07\% | 120.78 | 331.02 | 326.67 | -1.32\% |
| 15 |  |  |  | 4,000 | 275.28 | 271.12 | (4.16) | -1.51\% | 161.04 | 436.32 | 432.16 | -0.95\% |
| 16 |  |  |  | 5,000 | 340.31 | 336.35 | (3.96) | -1.16\% | 201.30 | 541.61 | 537.65 | -0.73\% |
| 17 |  |  |  | 6,000 | 405.35 | 401.58 | (3.77) | -0.93\% | 241.56 | 646.91 | 643.14 | -0.58\% |
| 18 |  |  |  | 7,000 | 470.38 | 466.81 | (3.57) | -0.76\% | 281.82 | 752.20 | 748.63 | -0.47\% |
| 19 |  |  |  | 8,000 | 535.42 | 532.04 | (3.38) | -0.63\% | 322.08 | 857.50 | 854.12 | -0.39\% |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | CS | RS-ES |  |  |  |  |  |  |  |  |  |  |
| 22 |  | On Peak |  | 1,000 | 80.32 | 75.57 | (4.75) | -5.91\% | 40.26 | 120.58 | 115.83 | -3.94\% |
| 23 |  | Off Peak |  | 2,000 | 146.42 | 141.87 | (4.55) | -3.11\% | 80.52 | 226.94 | 222.39 | -2.01\% |
| 24 |  |  |  | 3,000 | 212.06 | 207.70 | (4.36) | -2.05\% | 120.78 | 332.84 | 328.48 | -1.31\% |
| 25 |  |  |  | 4,000 | 277.70 | 273.54 | (4.16) | -1.50\% | 161.04 | 438.74 | 434.58 | -0.95\% |
| 26 |  |  |  | 5,000 | 343.34 | 339.38 | (3.96) | -1.15\% | 201.30 | 544.64 | 540.68 | -0.73\% |
| 27 |  |  |  | 6,000 | 408.98 | 405.21 | (3.77) | -0.92\% | 241.56 | 650.54 | 646.77 | -0.58\% |
| 28 |  |  |  | 7,000 | 474.62 | 471.05 | (3.57) | -0.75\% | 281.82 | 756.44 | 752.87 | -0.47\% |
| 29 |  |  |  | 8,000 | 540.27 | 536.89 | (3.38) | -0.63\% | 322.08 | 862.35 | 858.97 | -0.39\% |


| Line No. |  | Rate Code | Level of Demand <br> (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel $(\mathrm{H}=\mathrm{C}+\mathrm{G})$ | Proposed <br> Total Bill <br> Including <br> Fuel (I= D+G) | Schedule E-5 Page 147 of 154 $\begin{gathered} \text { \% Change } \\ (\mathrm{J}=\mathrm{E} \div \mathrm{H}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS | RS-ES |  |  |  |  |  |  |  |  |  |  |
| 2 |  | On Peak |  | 1,000 | 81.77 | 77.03 | (4.74) | -5.80\% | 40.26 | 122.03 | 117.29 | -3.89\% |
| 3 |  | Off Peak |  | 2,000 | 149.33 | 144.78 | (4.55) | -3.05\% | 80.52 | 229.85 | 225.30 | -1.98\% |
| 4 |  |  |  | 3,000 | 216.42 | 212.07 | (4.35) | -2.01\% | 120.78 | 337.20 | 332.85 | -1.29\% |
| 5 |  |  |  | 4,000 | 283.52 | 279.36 | (4.16) | -1.47\% | 161.04 | 444.56 | 440.40 | -0.94\% |
| 6 |  |  |  | 5,000 | 350.61 | 346.65 | (3.96) | -1.13\% | 201.30 | 551.91 | 547.95 | -0.72\% |
| 7 |  |  |  | 6,000 | 417.71 | 413.94 | (3.77) | -0.90\% | 241.56 | 659.27 | 655.50 | -0.57\% |
| 8 |  |  |  | 7,000 | 484.80 | 481.23 | (3.57) | -0.74\% | 281.82 | 766.62 | 763.05 | -0.47\% |
| 9 |  |  |  | 8,000 | 551.90 | 548.52 | (3.38) | -0.61\% | 322.08 | 873.98 | 870.60 | -0.39\% |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | CS | GS-1 |  |  |  |  |  |  | 0.04026 |  |  |  |
| 12 |  | Unmetered |  | 50 | 20.95 | 18.44 | (2.51) | -11.96\% | 2.01 | 22.96 | 20.46 | -10.91\% |
| 13 |  |  |  | 100 | 23.73 | 21.05 | (2.68) | -11.29\% | 4.03 | 27.76 | 25.08 | -9.65\% |
| 14 |  |  |  | 150 | 26.50 | 23.66 | (2.84) | -10.73\% | 6.04 | 32.54 | 29.70 | -8.74\% |
| 15 |  |  |  | 200 | 29.28 | 26.26 | (3.02) | -10.31\% | 8.05 | 37.33 | 34.31 | -8.08\% |
| 16 |  |  |  | 400 | 40.39 | 36.69 | (3.70) | -9.17\% | 16.10 | 56.49 | 52.79 | -6.56\% |
| 17 |  |  |  | 700 | 57.05 | 52.32 | (4.73) | -8.29\% | 28.18 | 85.23 | 80.50 | -5.55\% |
| 18 |  |  |  | 1,000 | 73.70 | 67.95 | (5.75) | -7.80\% | 40.26 | 113.96 | 108.21 | -5.04\% |
| 19 |  |  |  | 1,500 | 101.47 | 94.01 | (7.46) | -7.35\% | 60.39 | 161.86 | 154.40 | -4.61\% |
| 20 |  |  |  | 2,000 | 129.23 | 120.07 | (9.16) | -7.09\% | 80.52 | 209.75 | 200.59 | -4.37\% |
| 21 |  |  |  | 4,000 | 239.38 | 223.38 | (16.00) | -6.68\% | 161.04 | 400.42 | 384.42 | -4.00\% |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | CS | GS-1 | 0 | 200 | 32.98 | 30.38 | (2.60) | -7.89\% | 8.05 | 41.03 | 38.43 | -6.34\% |
| 25 |  |  | 1 | 400 | 44.09 | 40.80 | (3.29) | -7.46\% | 16.10 | 60.19 | 56.91 | -5.46\% |
| 26 |  |  | 1 | 600 | 55.19 | 51.22 | (3.97) | -7.18\% | 24.16 | 79.35 | 75.38 | -5.00\% |
| 27 |  |  | 2 | 800 | 66.30 | 61.65 | (4.65) | -7.02\% | 32.21 | 98.51 | 93.86 | -4.72\% |
| 28 |  |  | 2 | 1,000 | 77.40 | 72.07 | (5.33) | -6.89\% | 40.26 | 117.66 | 112.33 | -4.53\% |
| 29 |  |  | 3 | 1,200 | 88.51 | 82.49 | (6.02) | -6.80\% | 48.31 | 136.82 | 130.81 | -4.40\% |
| 30 |  |  | 4 | 1,600 | 110.72 | 103.34 | (7.38) | -6.67\% | 64.42 | 175.14 | 167.76 | -4.21\% |
| 31 |  |  | 4 | 1,800 | 121.83 | 113.76 | (8.07) | -6.62\% | 72.47 | 194.30 | 186.23 | -4.15\% |
| 32 |  |  | 4 | 2,000 | 132.93 | 124.19 | (8.74) | -6.58\% | 80.52 | 213.45 | 204.71 | -4.10\% |


| Line No. |  | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel (H = C+G) | Proposed <br> Total Bill Including Fuel (I= D+G) | $\begin{gathered} \text { Schedule E-5 } \\ \text { Page } 148 \text { of } 154 \\ \text { \% Change } \\ (\mathrm{J}=\mathrm{E} \div \mathrm{H}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS | GS-1 | 5 | 2,400 | 154.96 | 144.85 | (10.11) | -6.53\% | 96.62 | 251.58 | 241.47 | -4.02\% |
| 2 |  |  | 7 | 3,000 | 188.00 | 175.84 | (12.16) | -6.47\% | 120.78 | 308.78 | 296.62 | -3.94\% |
| 3 |  |  | 7 | 3,200 | 199.02 | 186.17 | (12.85) | -6.46\% | 128.83 | 327.85 | 315.00 | -3.92\% |
| 4 |  |  | 9 | 4,000 | 243.08 | 227.50 | (15.58) | -6.41\% | 161.04 | 404.12 | 388.54 | -3.86\% |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  | 0.04026 |  |  |  |
| 7 | CS | GS-2 | 10 | 2,500 | 179.98 | 156.00 | (23.98) | -13.33\% | 100.65 | 280.63 | 256.65 | -8.55\% |
| 8 |  | Secondary | 10 | 3,000 | 190.38 | 175.32 | (15.06) | -7.91\% | 120.78 | 311.16 | 296.10 | -4.84\% |
| 9 |  |  | 50 | 12,500 | 805.81 | 795.23 | (10.58) | -1.31\% | 503.25 | 1,309.06 | 1,298.48 | -0.81\% |
| 10 |  |  | 50 | 15,000 | 857.81 | 847.07 | (10.74) | -1.25\% | 603.90 | 1,461.71 | 1,450.97 | -0.73\% |
| 11 |  |  | 100 | 25,000 | 1,582.50 | 1,543.90 | (38.60) | -2.44\% | 1,006.50 | 2,589.00 | 2,550.40 | -1.49\% |
| 12 |  |  | 100 | 30,000 | 1,683.70 | 1,644.79 | (38.91) | -2.31\% | 1,207.80 | 2,891.50 | 2,852.59 | -1.35\% |
| 13 |  |  | 250 | 62,500 | 3,908.36 | 3,785.70 | (122.66) | -3.14\% | 2,516.25 | 6,424.61 | 6,301.95 | -1.91\% |
| 14 |  |  | 250 | 75,000 | 4,161.37 | 4,037.93 | (123.44) | -2.97\% | 3,019.50 | 7,180.87 | 7,057.43 | -1.72\% |
| 15 |  |  | 500 | 125,000 | 7,784.79 | 7,522.04 | (262.75) | -3.38\% | 5,032.50 | 12,817.29 | 12,554.54 | -2.05\% |
| 16 |  |  | 500 | 150,000 | 8,290.83 | 8,026.49 | (264.34) | -3.19\% | 6,039.00 | 14,329.83 | 14,065.49 | -1.84\% |
| 17 |  |  | 750 | 187,500 | 11,661.23 | 11,258.38 | (402.85) | -3.45\% | 7,548.75 | 19,209.98 | 18,807.13 | -2.10\% |
| 18 |  |  | 750 | 225,000 | 12,420.28 | 12,015.06 | (405.22) | -3.26\% | 9,058.50 | 21,478.78 | 21,073.56 | -1.89\% |
| 19 |  |  | 1,000 | 250,000 | 15,537.66 | 14,994.72 | (542.94) | -3.49\% | 10,065.00 | 25,602.66 | 25,059.72 | -2.12\% |
| 20 |  |  | 1,000 | 300,000 | 16,549.73 | 16,003.62 | (546.11) | -3.30\% | 12,078.00 | 28,627.73 | 28,081.62 | -1.91\% |
| 21 |  |  | 2,000 | 500,000 | 31,043.41 | 29,940.08 | $(1,103.33)$ | -3.55\% | 20,130.00 | 51,173.41 | 50,070.08 | -2.16\% |
| 22 |  |  | 2,000 | 600,000 | 33,067.54 | 31,957.88 | $(1,109.66)$ | -3.36\% | 24,156.00 | 57,223.54 | 56,113.88 | -1.94\% |


| Line No. |  | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized Fuel Cost Additions to Bill <br> (G) | Current <br> Total Bill <br> Including Fuel (H = C+G) | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 149 of 154 <br> \% Change (J=E $\div \mathrm{H}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS | GS-2 |  |  |  |  |  |  | 0.03886 |  |  |  |
| 2 |  | Primary | 50 | 5,000 | 773.16 | 769.72 | (3.44) | -0.45\% | 194.30 | 967.46 | 964.02 | -0.36\% |
| 3 |  |  | 50 | 8,750 | 850.11 | 846.43 | (3.68) | -0.43\% | 340.03 | 1,190.14 | 1,186.46 | -0.31\% |
| 4 |  |  | 50 | 12,500 | 927.06 | 923.14 | (3.92) | -0.42\% | 485.75 | 1,412.81 | 1,408.89 | -0.28\% |
| 5 |  |  | 100 | 10,000 | 1,369.85 | 1,374.75 | 4.90 | 0.36\% | 388.60 | 1,758.45 | 1,763.35 | 0.28\% |
| 6 |  |  | 100 | 17,500 | 1,522.35 | 1,526.78 | 4.43 | 0.29\% | 680.05 | 2,202.40 | 2,206.83 | 0.20\% |
| 7 |  |  | 100 | 25,000 | 1,672.05 | 1,676.00 | 3.95 | 0.24\% | 971.50 | 2,643.55 | 2,647.50 | 0.15\% |
| 8 |  |  | 250 | 25,000 | 3,154.33 | 3,184.25 | 29.92 | 0.95\% | 971.50 | 4,125.83 | 4,155.75 | 0.73\% |
| 9 |  |  | 250 | 43,750 | 3,528.58 | 3,557.31 | 28.73 | 0.81\% | 1,700.13 | 5,228.71 | 5,257.43 | 0.55\% |
| 10 |  |  | 250 | 62,500 | 3,902.83 | 3,930.37 | 27.54 | 0.71\% | 2,428.75 | 6,331.58 | 6,359.12 | 0.44\% |
| 11 |  |  | 500 | 50,000 | 6,123.80 | 6,195.41 | 71.61 | 1.17\% | 1,943.00 | 8,066.80 | 8,138.41 | 0.89\% |
| 12 |  |  | 500 | 87,500 | 6,872.30 | 6,941.53 | 69.23 | 1.01\% | 3,400.25 | 10,272.55 | 10,341.78 | 0.67\% |
| 13 |  |  | 500 | 125,000 | 7,620.80 | 7,687.66 | 66.86 | 0.88\% | 4,857.50 | 12,478.30 | 12,545.16 | 0.54\% |
| 14 |  |  | 1,000 | 100,000 | 12,062.73 | 12,217.72 | 154.99 | 1.28\% | 3,886.00 | 15,948.73 | 16,103.72 | 0.97\% |
| 15 |  |  | 1,000 | 175,000 | 13,559.73 | 13,709.98 | 150.25 | 1.11\% | 6,800.50 | 20,360.23 | 20,510.48 | 0.74\% |
| 16 |  |  | 1,000 | 250,000 | 15,056.73 | 15,202.23 | 145.50 | 0.97\% | 9,715.00 | 24,771.73 | 24,917.23 | 0.59\% |
| 17 |  |  | 1,500 | 150,000 | 18,001.66 | 18,240.04 | 238.38 | 1.32\% | 5,829.00 | 23,830.66 | 24,069.04 | 1.00\% |
| 18 |  |  | 1,500 | 262,500 | 20,247.16 | 20,478.42 | 231.26 | 1.14\% | 10,200.75 | 30,447.91 | 30,679.17 | 0.76\% |
| 19 |  |  | 1,500 | 375,000 | 22,492.66 | 22,716.80 | 224.14 | 1.00\% | 14,572.50 | 37,065.16 | 37,289.30 | 0.60\% |
| 20 |  |  | 2,000 | 200,000 | 23,940.59 | 24,262.36 | 321.77 | 1.34\% | 7,772.00 | 31,712.59 | 32,034.36 | 1.01\% |
| 21 |  |  | 2,000 | 350,000 | 26,934.59 | 27,246.87 | 312.28 | 1.16\% | 13,601.00 | 40,535.59 | 40,847.87 | 0.77\% |
| 22 |  |  | 2,000 | 500,000 | 29,928.59 | 30,231.37 | 302.78 | 1.01\% | 19,430.00 | 49,358.59 | 49,661.37 | 0.61\% |
| 23 |  |  | 3,000 | 300,000 | 35,818.45 | 36,307.00 | 488.55 | 1.36\% | 11,658.00 | 47,476.45 | 47,965.00 | 1.03\% |
| 24 |  |  | 3,000 | 525,000 | 40,309.45 | 40,783.76 | 474.31 | 1.18\% | 20,401.50 | 60,710.95 | 61,185.26 | 0.78\% |
| 25 |  |  | 3,000 | 750,000 | 44,800.45 | 45,260.51 | 460.06 | 1.03\% | 29,145.00 | 73,945.45 | 74,405.51 | 0.62\% |


| Line No. | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | $\begin{gathered} \% \\ \text { Increase } \\ \text { (F = } \div \div \text { C) } \end{gathered}$ | Annualized <br> Fuel Cost <br> Additions to Bill <br> (G) | Current <br> Total Bill <br> Including <br> Fuel (H = C+G) | Proposed <br> Total Bill <br> Including Fuel $(I=D+G)$ | Schedule E-5 Page 150 of 154 \% Change $(\mathrm{J}=\mathrm{E} \div \mathrm{H})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS GS-3 |  |  |  |  |  |  | 0.04026 |  |  |  |
| 2 | Secondary | 50 | 17,500 | 908.42 | 897.52 | (10.90) | -1.20\% | 704.55 | 1,612.97 | 1,602.07 | -0.68\% |
| 3 |  | 50 | 22,500 | 1,009.62 | 998.41 | (11.21) | -1.11\% | 905.85 | 1,915.47 | 1,904.26 | -0.59\% |
| 4 |  | 50 | 27,500 | 1,110.83 | 1,099.30 | (11.53) | -1.04\% | 1,107.15 | 2,217.98 | 2,206.45 | -0.52\% |
| 5 |  | 100 | 35,000 | 1,784.91 | 1,745.68 | (39.23) | -2.20\% | 1,409.10 | 3,194.01 | 3,154.78 | -1.23\% |
| 6 |  | 100 | 45,000 | 1,987.32 | 1,947.46 | (39.86) | -2.01\% | 1,811.70 | 3,799.02 | 3,759.16 | -1.05\% |
| 7 |  | 100 | 55,000 | 2,189.74 | 2,149.24 | (40.50) | -1.85\% | 2,214.30 | 4,404.04 | 4,363.54 | -0.92\% |
| 8 |  | 250 | 87,500 | 4,414.39 | 4,290.15 | (124.24) | -2.81\% | 3,522.75 | 7,937.14 | 7,812.90 | -1.57\% |
| 9 |  | 250 | 112,500 | 4,920.42 | 4,794.60 | (125.82) | -2.56\% | 4,529.25 | 9,449.67 | 9,323.85 | -1.33\% |
| 10 |  | 250 | 137,500 | 5,426.46 | 5,299.05 | (127.41) | -2.35\% | 5,535.75 | 10,962.21 | 10,834.80 | -1.16\% |
| 11 |  | 500 | 175,000 | 8,796.86 | 8,530.94 | (265.92) | -3.02\% | 7,045.50 | 15,842.36 | 15,576.44 | -1.68\% |
| 12 |  | 500 | 225,000 | 9,808.92 | 9,539.84 | (269.08) | -2.74\% | 9,058.50 | 18,867.42 | 18,598.34 | -1.43\% |
| 13 |  | 500 | 275,000 | 10,820.99 | 10,548.74 | (272.25) | -2.52\% | 11,071.50 | 21,892.49 | 21,620.24 | -1.24\% |
| 14 |  | 1,000 | 350,000 | 17,561.79 | 17,012.52 | (549.27) | -3.13\% | 14,091.00 | 31,652.79 | 31,103.52 | -1.74\% |
| 15 |  | 1,000 | 450,000 | 19,585.92 | 19,030.32 | (555.60) | -2.84\% | 18,117.00 | 37,702.92 | 37,147.32 | -1.47\% |
| 16 |  | 1,000 | 550,000 | 21,610.05 | 21,048.12 | (561.93) | -2.60\% | 22,143.00 | 43,753.05 | 43,191.12 | -1.28\% |
| 17 |  | 2,000 | 700,000 | 35,091.67 | 33,975.68 | $(1,115.99)$ | -3.18\% | 28,182.00 | 63,273.67 | 62,157.68 | -1.76\% |
| 18 |  | 2,000 | 900,000 | 38,984.34 | 37,855.69 | $(1,128.65)$ | -2.90\% | 36,234.00 | 75,218.34 | 74,089.69 | -1.50\% |
| 19 |  | 2,000 | 1,100,000 | 42,568.16 | 41,426.85 | $(1,141.31)$ | -2.68\% | 44,286.00 | 86,854.16 | 85,712.85 | -1.31\% |
| 20 |  | 3,000 | 1,050,000 | 52,117.62 | 50,434.92 | $(1,682.70)$ | -3.23\% | 42,273.00 | 94,390.62 | 92,707.92 | -1.78\% |
| 21 |  | 3,000 | 1,350,000 | 57,493.35 | 55,791.66 | $(1,701.69)$ | -2.96\% | 54,351.00 | 111,844.35 | 110,142.66 | -1.52\% |
| 22 |  | 3,000 | 1,650,000 | 62,869.08 | 61,148.40 | $(1,720.68)$ | -2.74\% | 66,429.00 | 129,298.08 | 127,577.40 | -1.33\% |
| 23 |  | 4,500 | 1,575,000 | 77,193.27 | 74,660.50 | $(2,532.77)$ | -3.28\% | 63,409.50 | 140,602.77 | 138,070.00 | -1.80\% |
| 24 |  | 4,500 | 2,025,000 | 85,256.87 | 82,695.61 | $(2,561.26)$ | -3.00\% | 81,526.50 | 166,783.37 | 164,222.11 | -1.54\% |
| 25 |  | 4,500 | 2,475,000 | 93,320.46 | 90,730.72 | (2,589.74) | -2.78\% | 99,643.50 | 192,963.96 | 190,374.22 | -1.34\% |


| Line No. | Rate Code | Level of Demand (A) | Level of Usage <br> (B) | Current Bill (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel (H = C+G) | Proposed <br> Total Bill Including Fuel $(I=D+G)$ | Schedule E-5 <br> Page 151 of 154 <br> \% Change <br> $(\mathrm{J}=\mathrm{E} \div \mathrm{H})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS GS-3 |  |  |  |  |  |  | 0.03886 |  |  |  |
| 2 | Primary | 50 | 17,500 | 1,028.26 | 1,024.03 | (4.23) | -0.41\% | 680.05 | 1,708.31 | 1,704.08 | -0.25\% |
| 3 |  | 50 | 22,500 | 1,128.06 | 1,123.51 | (4.55) | -0.40\% | 874.35 | 2,002.41 | 1,997.86 | -0.23\% |
| 4 |  | 50 | 27,500 | 1,227.86 | 1,222.99 | (4.87) | -0.40\% | 1,068.65 | 2,296.51 | 2,291.64 | -0.21\% |
| 5 |  | 100 | 35,000 | 1,871.65 | 1,874.97 | 3.32 | 0.18\% | 1,360.10 | 3,231.75 | 3,235.07 | 0.10\% |
| 6 |  | 100 | 45,000 | 2,071.25 | 2,073.94 | 2.69 | 0.13\% | 1,748.70 | 3,819.95 | 3,822.64 | 0.07\% |
| 7 |  | 100 | 55,000 | 2,270.85 | 2,272.90 | 2.05 | 0.09\% | 2,137.30 | 4,408.15 | 4,410.20 | 0.05\% |
| 8 |  | 250 | 87,500 | 4,401.83 | 4,427.79 | 25.96 | 0.59\% | 3,400.25 | 7,802.08 | 7,828.04 | 0.33\% |
| 9 |  | 250 | 112,500 | 4,900.83 | 4,925.21 | 24.38 | 0.50\% | 4,371.75 | 9,272.58 | 9,296.96 | 0.26\% |
| 10 |  | 250 | 137,500 | 5,399.83 | 5,422.63 | 22.80 | 0.42\% | 5,343.25 | 10,743.08 | 10,765.88 | 0.21\% |
| 11 |  | 500 | 175,000 | 8,618.80 | 8,682.49 | 63.69 | 0.74\% | 6,800.50 | 15,419.30 | 15,482.99 | 0.41\% |
| 12 |  | 500 | 225,000 | 9,616.80 | 9,677.33 | 60.53 | 0.63\% | 8,743.50 | 18,360.30 | 18,420.83 | 0.33\% |
| 13 |  | 500 | 275,000 | 10,614.80 | 10,672.16 | 57.36 | 0.54\% | 10,686.50 | 21,301.30 | 21,358.66 | 0.27\% |
| 14 |  | 1,000 | 350,000 | 17,052.73 | 17,191.90 | 139.17 | 0.82\% | 13,601.00 | 30,653.73 | 30,792.90 | 0.45\% |
| 15 |  | 1,000 | 450,000 | 19,048.73 | 19,181.57 | 132.84 | 0.70\% | 17,487.00 | 36,535.73 | 36,668.57 | 0.36\% |
| 16 |  | 1,000 | 550,000 | 21,044.73 | 21,171.24 | 126.51 | 0.60\% | 21,373.00 | 42,417.73 | 42,544.24 | 0.30\% |
| 17 |  | 2,000 | 700,000 | 33,920.59 | 34,210.71 | 290.12 | 0.86\% | 27,202.00 | 61,122.59 | 61,412.71 | 0.47\% |
| 18 |  | 2,000 | 900,000 | 37,757.00 | 38,034.46 | 277.46 | 0.73\% | 34,974.00 | 72,731.00 | 73,008.46 | 0.38\% |
| 19 |  | 2,000 | 1,100,000 | 41,284.56 | 41,549.36 | 264.80 | 0.64\% | 42,746.00 | 84,030.56 | 84,295.36 | 0.32\% |
| 20 |  | 4,000 | 1,400,000 | 66,339.62 | 66,931.65 | 592.03 | 0.89\% | 54,404.00 | 120,743.62 | 121,335.65 | 0.49\% |
| 21 |  | 4,000 | 1,800,000 | 73,394.74 | 73,961.45 | 566.71 | 0.77\% | 69,948.00 | 143,342.74 | 143,909.45 | 0.40\% |
| 22 |  | 4,000 | 2,200,000 | 80,449.86 | 80,991.25 | 541.39 | 0.67\% | 85,492.00 | 165,941.86 | 166,483.25 | 0.33\% |
| 23 |  | 8,000 | 2,800,000 | 130,559.98 | 131,755.82 | 1,195.84 | 0.92\% | 108,808.00 | 239,367.98 | 240,563.82 | 0.50\% |
| 24 |  | 8,000 | 3,600,000 | 144,670.22 | 145,815.42 | 1,145.20 | 0.79\% | 139,896.00 | 284,566.22 | 285,711.42 | 0.40\% |
| 25 |  | 8,000 | 4,400,000 | 158,780.46 | 159,875.02 | 1,094.56 | 0.69\% | 170,984.00 | 329,764.46 | 330,859.02 | 0.33\% |
| 26 |  | 10,000 | 3,500,000 | 162,670.16 | 164,167.90 | 1,497.74 | 0.92\% | 136,010.00 | 298,680.16 | 300,177.90 | 0.50\% |
| 27 |  | 10,000 | 4,500,000 | 180,307.96 | 181,742.40 | 1,434.44 | 0.80\% | 174,870.00 | 355,177.96 | 356,612.40 | 0.40\% |
| 28 |  | 10,000 | 5,500,000 | 197,945.76 | 199,316.90 | 1,371.14 | 0.69\% | 213,730.00 | 411,675.76 | 413,046.90 | 0.33\% |


| Line No. |  | Rate Code | Level of Demand | Level of Usage (B) | Current Bill (C) | Proposed Bill (D) | Dollar Increase (E=D-C) | \% Increase ( $\mathrm{F}=\mathrm{E} \div \mathrm{C}$ ) | Annualized Fuel Cost Additions to Bill <br> (G) | Current <br> Total Bill Including Fuel $\text { ( } \mathrm{H}=\mathrm{C}+\mathrm{G} \text { ) }$ | Proposed <br> Total Bill <br> Including <br> Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 152 of 154 <br> \% Change $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS | GS-4 | 3,000 | 600,000 | 25,745.52 | 26,419.27 | 673.75 | 2.62\% | 22,854.00 | 48,599.52 | 49,273.27 | 1.39\% |
| 2 |  |  | 3,000 | 1,200,000 | 34,424.03 | 35,059.80 | 635.77 | 1.85\% | 45,708.00 | 80,132.03 | 80,767.80 | 0.79\% |
| 3 |  |  | 3,000 | 1,800,000 | 42,561.47 | 43,159.26 | 597.79 | 1.40\% | 68,562.00 | 111,123.47 | 111,721.26 | 0.54\% |
| 4 |  |  | 5,000 | 1,000,000 | 41,491.55 | 40,559.98 | (931.57) | -2.25\% | 38,090.00 | 79,581.55 | 78,649.98 | -1.17\% |
| 5 |  |  | 5,000 | 2,000,000 | 55,053.95 | 54,059.08 | (994.87) | -1.81\% | 76,180.00 | 131,233.95 | 130,239.08 | -0.76\% |
| 6 |  |  | 5,000 | 3,000,000 | 68,616.35 | 67,558.18 | $(1,058.17)$ | -1.54\% | 114,270.00 | 182,886.35 | 181,828.18 | -0.58\% |
| 7 |  |  | 8,000 | 1,600,000 | 64,298.99 | 60,959.44 | $(3,339.55)$ | -5.19\% | 60,944.00 | 125,242.99 | 121,903.44 | -2.67\% |
| 8 |  |  | 8,000 | 3,200,000 | 85,998.83 | 82,558.00 | $(3,440.83)$ | -4.00\% | 121,888.00 | 207,886.83 | 204,446.00 | -1.66\% |
| 9 |  |  | 8,000 | 4,800,000 | 107,698.67 | 104,156.56 | $(3,542.11)$ | -3.29\% | 182,832.00 | 290,530.67 | 286,988.56 | -1.22\% |
| 10 |  |  | 10,000 | 2,000,000 | 79,503.95 | 74,559.08 | $(4,944.87)$ | -6.22\% | 76,180.00 | 155,683.95 | 150,739.08 | -3.18\% |
| 11 |  |  | 10,000 | 4,000,000 | 106,628.75 | 101,557.28 | $(5,071.47)$ | -4.76\% | 152,360.00 | 258,988.75 | 253,917.28 | -1.96\% |
| 12 |  |  | 10,000 | 6,000,000 | 133,753.55 | 128,555.48 | $(5,198.07)$ | -3.89\% | 228,540.00 | 362,293.55 | 357,095.48 | -1.43\% |
| 13 |  |  | 15,000 | 3,000,000 | 117,516.35 | 108,558.18 | $(8,958.17)$ | -7.62\% | 114,270.00 | 231,786.35 | 222,828.18 | -3.86\% |
| 14 |  |  | 15,000 | 6,000,000 | 158,203.55 | 149,055.48 | $(9,148.07)$ | -5.78\% | 228,540.00 | 386,743.55 | 377,595.48 | -2.37\% |
| 15 |  |  | 15,000 | 9,000,000 | 198,890.75 | 189,552.78 | $(9,337.97)$ | -4.70\% | 342,810.00 | 541,700.75 | 532,362.78 | -1.72\% |
| 16 |  |  | 20,000 | 4,000,000 | 155,528.75 | 142,557.28 | $(12,971.47)$ | -8.34\% | 152,360.00 | 307,888.75 | 294,917.28 | -4.21\% |
| 17 |  |  | 20,000 | 8,000,000 | 209,778.35 | 196,553.68 | $(13,224.67)$ | -6.30\% | 304,720.00 | 514,498.35 | 501,273.68 | -2.57\% |
| 18 |  |  | 20,000 | 12,000,000 | 264,027.95 | 250,550.08 | $(13,477.87)$ | -5.10\% | 457,080.00 | 721,107.95 | 707,630.08 | -1.87\% |
| 19 |  |  | 30,000 | 6,000,000 | 231,553.55 | 210,555.48 | $(20,998.07)$ | -9.07\% | 228,540.00 | 460,093.55 | 439,095.48 | -4.56\% |
| 20 |  |  | 30,000 | 12,000,000 | 312,927.95 | 291,550.08 | $(21,377.87)$ | -6.83\% | 457,080.00 | 770,007.95 | 748,630.08 | -2.78\% |
| 21 |  |  | 30,000 | 18,000,000 | 394,302.35 | 372,544.68 | $(21,757.67)$ | -5.52\% | 685,620.00 | 1,079,922.35 | 1,058,164.68 | -2.01\% |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | CS | AL |  |  |  |  |  |  |  |  |  |  |
| 24 |  | Mercury Vapor |  |  |  |  |  |  | 0.04026 |  |  |  |
| 25 |  |  |  | 43 | 10.03 | 8.54 | (1.49) | -14.83\% | 1.73 | 11.76 | 10.27 | -12.64\% |
| 26 |  |  |  | 72 | 11.29 | 9.34 | (1.95) | -17.24\% | 2.90 | 14.19 | 12.24 | -13.72\% |
| 27 |  |  |  | 158 | 17.52 | 14.70 | (2.82) | -16.12\% | 6.36 | 23.88 | 21.06 | -11.83\% |
| 28 |  |  |  | 72 | 19.94 | 15.27 | (4.67) | -23.44\% | 2.90 | 22.84 | 18.16 | -20.47\% |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  | High Pressure Sodium |  |  |  |  |  |  |  |  |  |  |
| 31 |  |  |  | 40 | 9.02 | 7.25 | (1.77) | -19.64\% | 1.61 | 10.63 | 8.86 | -16.66\% |
| 32 |  |  |  | 59 | 10.02 | 8.58 | (1.44) | -14.34\% | 2.38 | 12.40 | 10.96 | -11.59\% |
| 33 |  |  |  | 84 | 12.39 | 9.69 | (2.70) | -21.80\% | 3.38 | 15.77 | 13.07 | -17.12\% |
| 34 |  |  |  | 103 | 13.06 | 10.03 | (3.03) | -23.18\% | 4.15 | 17.21 | 14.18 | -17.60\% |

OHIO POWER COMPANY
Case No. 20-585-EL-AIR
Typical Bill Comparison

| Line No. |  | Rate Level of <br> Demand <br> Code <br>   | Level of Usage <br> (B) | $\begin{gathered} \text { Current } \\ \text { Bill } \\ \text { (C) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Proposed } \\ & \text { Bill } \\ & \text { (D) } \\ & \hline \end{aligned}$ | Dollar Increase (E=D-C) | \% Increase $(\mathrm{F}=\mathrm{E} \div \mathrm{C})$ | Annualized <br> Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel (H = C+G) | Proposed Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 Page 153 of 154 $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS | AL | 167 | 16.68 | 12.90 | (3.78) | -22.64\% | 6.72 | 23.40 | 19.63 | -16.14\% |
| 2 |  |  | 40 | 18.49 | 14.25 | (4.24) | -22.92\% | 1.61 | 20.10 | 15.86 | -21.08\% |
| 3 |  |  | 59 | 19.50 | 16.55 | (2.95) | -15.13\% | 2.38 | 21.88 | 18.92 | -13.49\% |
| 4 |  |  | 40 | 13.85 | 7.25 | (6.60) | -47.66\% | 1.61 | 15.46 | 8.86 | -42.70\% |
| 5 |  |  | 103 | 19.63 | 10.03 | (9.60) | -48.89\% | 4.15 | 23.78 | 14.18 | -40.37\% |
| 6 |  |  | 167 | 22.79 | 12.90 | (9.89) | -43.38\% | 6.72 | 29.51 | 19.63 | -33.50\% |
| 7 |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  | FLOODLIGHT |  |  |  |  |  |  |  |  |  |
| 9 |  | High Pressure Sodium |  |  |  |  |  |  |  |  |  |
| 10 |  |  | 40 | 9.61 | 7.25 | (2.36) | -24.57\% | 1.61 | 11.22 | 8.86 | -21.04\% |
| 11 |  |  | 103 | 13.36 | 10.03 | (3.33) | -24.91\% | 4.15 | 17.51 | 14.18 | -19.01\% |
| 12 |  |  | 167 | 16.37 | 12.90 | (3.47) | -21.18\% | 6.72 | 23.09 | 19.63 | -15.01\% |
| 13 |  |  | 378 | 24.94 | 22.02 | (2.92) | -11.72\% | 15.22 | 40.16 | 37.24 | -7.28\% |
| 14 |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  | Metal Halide |  |  |  |  |  |  |  |  |  |
| 16 |  |  | 100 | 14.92 | 11.72 | (3.20) | -21.42\% | 4.03 | 18.95 | 15.75 | -16.87\% |
| 17 |  |  | 158 | 17.14 | 12.36 | (4.78) | -27.86\% | 6.36 | 23.50 | 18.73 | -20.32\% |
| 18 |  |  | 378 | 24.86 | 21.95 | (2.91) | -11.71\% | 15.22 | 40.08 | 37.17 | -7.26\% |
| 19 |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  | FACILITY CHARGES |  |  |  |  |  |  |  |  |  |
| 21 |  | Mast Arm |  |  |  |  |  |  |  |  |  |
| 22 |  |  | 0 | 0.89 | - | (0.89) | -100.00\% | - | 0.89 | - | -100.00\% |
| 23 |  |  | 0 | 1.57 | - | (1.57) | -100.00\% | - | 1.57 | - | -100.00\% |
| 24 |  |  | 0 | 2.09 | - | (2.09) | -100.00\% | - | 2.09 | - | -100.00\% |
| 25 |  |  | 0 | 3.65 | - | (3.65) | -100.00\% | - | 3.65 | - | -100.00\% |
| 26 |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  | Poles |  |  |  |  |  |  |  |  |  |
| 28 |  |  | 0 | 3.43 | - | (3.43) | -100.00\% | - | 3.43 | - | -100.00\% |
| 29 |  |  | 0 | 18.80 | - | (18.80) | -100.00\% | - | 18.80 | - | -100.00\% |
| 30 |  |  | 0 | 28.03 | - | (28.03) | -100.00\% | - | 28.03 | - | -100.00\% |
| 31 |  |  |  |  |  |  |  |  |  |  |  |
| 32 |  | Each additional 150 foot overhead wire spar | 0 | 1.11 | - | (1.11) | -100.00\% | - | 1.11 | - | -100.00\% |
| 33 |  | Each additional riser pole connection | 0 | 5.52 | - | (5.52) | -100.00\% | - | 5.52 | - | -100.00\% |
| 34 |  | Each underground lateral not over 50 feet | 0 | 1.65 | - | (1.65) | -100.00\% | - | 1.65 | - | -100.00\% |


| Line No. |  | Rate  <br> Code Level of <br> Demand <br> (A) | Level of Usage <br> (B) | Current Bill <br> (C) | $\begin{gathered} \text { Proposed } \\ \text { Bill } \\ \text { (D) } \\ \hline \end{gathered}$ | Dollar Increase (E=D-C) | \% Increase $(F=E \div C)$ | Annualized Fuel Cost Additions to Bill (G) | Current <br> Total Bill Including Fuel (H = C+G) | Proposed <br> Total Bill Including Fuel $(\mathrm{I}=\mathrm{D}+\mathrm{G})$ | Schedule E-5 <br> Page 154 of 154 <br> \% Change <br> $(\mathrm{J}=\mathrm{E} \div \mathrm{H})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CS | SL |  |  |  |  |  |  |  |  |  |
| 2 |  | High Pressure Sodium |  |  |  |  |  |  |  |  |  |
| 3 |  |  | 40 | 11.02 | 4.89 | (6.13) | -55.64\% | 1.61 | 12.63 | 6.50 | -48.55\% |
| 4 |  |  | 59 | 12.76 | 5.33 | (7.43) | -58.23\% | 2.38 | 15.14 | 7.71 | -49.09\% |
| 5 |  |  | 84 | 16.56 | 7.23 | (9.33) | -56.34\% | 3.38 | 19.94 | 10.61 | -46.79\% |
| 6 |  |  | 103 | 18.45 | 12.27 | (6.18) | -33.47\% | 4.15 | 22.60 | 16.42 | -27.33\% |
| 7 |  |  | 167 | 21.71 | 11.75 | (9.96) | -45.87\% | 6.72 | 28.43 | 18.48 | -35.02\% |
| 8 |  |  | 40 | 15.51 | 4.89 | (10.62) | -68.48\% | 1.61 | 17.12 | 6.50 | -62.04\% |
| 9 |  |  | 103 | 25.60 | 12.27 | (13.33) | -52.05\% | 4.15 | 29.75 | 16.42 | -44.80\% |
| 10 |  |  | 167 | 33.34 | 11.75 | (21.59) | -64.75\% | 6.72 | 40.06 | 18.48 | -53.88\% |
| 11 |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  | Mercury Vapor |  |  |  |  |  |  |  |  |  |
| 13 |  |  | 43 | 10.18 | 6.88 | (3.30) | -32.45\% | 1.73 | 11.91 | 8.61 | -27.74\% |
| 14 |  |  | 72 | 12.11 | 5.42 | (6.69) | -55.28\% | 2.90 | 15.01 | 8.31 | -44.60\% |
| 15 |  |  | 158 | 20.37 | 9.19 | (11.18) | -54.89\% | 6.36 | 26.73 | 15.55 | -41.82\% |
| 16 |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  | FACILITY CHARGES |  |  |  |  |  |  |  |  |  |
| 18 |  | Mast Arm |  |  |  |  |  |  |  |  |  |
| 19 |  |  | 0 | 1.57 | - | (1.57) | -100.00\% | - | 1.57 | - | -100.00\% |
| 20 |  |  | 0 | 2.09 | - | (2.09) | -100.00\% | - | 2.09 | - | -100.00\% |
| 21 |  |  | 0 | 3.65 | - | (3.65) | -100.00\% | - | 3.65 | - | -100.00\% |
| 22 |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  | Poles |  |  |  |  |  |  |  |  |  |
| 24 |  |  | 0 | 1.79 | - | (1.79) | -100.00\% | - | 1.79 | - | -100.00\% |
| 25 |  |  | 0 | 18.56 | - | (18.56) | -100.00\% | - | 18.56 | - | -100.00\% |
| 26 |  |  | 0 | 27.67 | - | (27.67) | -100.00\% | - | 27.67 | - | -100.00\% |
| 27 |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  | Each additional 150 foot overhead wire spar | 0 | 1.05 | - | (1.05) | -100.00\% | - | 1.05 | - | -100.00\% |
| 29 |  | Each additional riser pole connection | 0 | 5.36 | - | (5.36) | -100.00\% | - | 5.36 | - | -100.00\% |
| 30 |  | Each underground lateral not over 50 feet | 0 | 1.71 | - | (1.71) | -100.00\% | - | 1.71 | - | -100.00\% |

This foregoing document was electronically filed with the Public Utilities

## Commission of Ohio Docketing Information System on

11/25/2020 12:02:05 PM
in

Case No(s). 20-0585-EL-AIR, 20-0586-EL-ATA, 20-0587-EL-AAM

Summary: Staff Report Filed - Staff's corrected Staff Report replacing the Staff Report issued on November 18, 2020 regarding Ohio Power Company, for an Increase in Electric Distribution Rates electronically filed by Zee Molter on behalf of PUCO Staff


[^0]:    ${ }^{1}$ See In the Matter of the Application of Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to R.C. 4928.143, in the Form of an Electric Security Plan, Case No. 16-1852-EL-SSO, Opinion and Order (April 25, 2018).
    ${ }^{2}$ Id. at 123-124.

[^1]:    ${ }^{3}$ Id. at 18-19.

[^2]:    ${ }^{4}$ See In the Matter of the 2017 Review of the Distribution Investment Rider Contained in the Tariff of Ohio Power Company, Case No. 18-230-EL-RDR, et al., Opinion and Order (June 17, 2020).
    ${ }^{5}$ See In the Matter of the Application of Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to R.C. 4928.143, in the Form of an Electric Security Plan, Case No. 16-1852-EL-SSO, Opinion and Order at 19 (April 25, 2018).

[^3]:    ${ }^{6}$ See, e.g., In the Matter of the Application of the Cincinnati Gas and Electric Co. for an increase in Electric Rates in its Service Area, Case No. 91-410-EL-AIR, Opinion and Order at 32 (May 12, 1992); see also In the Matter of the Application of Ohio Edison Co. for Authority to Change Certain of its Filed Schedules Fixing Rates and Charges for Electric Service, Case No. 89-1001-EL-AIR, Opinion and Order at 23 (Aug. 16, 1990); see also In the Matter of the Application of Ohio Edison Co. for Authority to Change Certain of its Filed Schedules Fixing Rates and Charges for Electric Service, Case No. 87-689-EL-AIR, Opinion and Order at 22 (Jan. 26, 1988)

[^4]:    ${ }^{7}$ See response to PUCO-DR-03-014

[^5]:    ${ }^{8}$ Direct Testimony of Jon F. Williams, Exhibit JFW-1, VI., Cost-Benefit Analysis, Case No. 20-585-EL-AIR (June 15, 2020).

[^6]:    ${ }^{9}$ See In the Matter of the Application of Duke Energy Ohio, Inc., for Approval of its 2021 Energy Efficiency and Demand Side Management Portfolio of Programs and Cost Recovery Mechanism, Case Nos. 20-1013-EL-POR, et al., Entryat 3 (June 17, 2020)
    ${ }^{10}$ See Company response to PUCO-DR-09-027(I.b) \& PUCO-DR-40-099(A)

[^7]:    ${ }^{11}$ Value Line's Safety Rank measures the total risk of a stock relative to the approximately 1,700 other stocks covered by the Value Line Investment Survey.
    ${ }^{12}$ Value Line classifies 1,700 companies' Financial Strength ratings from A++ to $C$, in nine steps. The lowest grade is reserved for companies experiencing serious financial difficulty. Balance sheet leverage, business risk, the level and direction of profits, cash flow, earned returns, cash, corporate size, and stock price, all contribute to a company's relative position on the scale. The amount of cash on hand, net of debt, is also an important consideration.
    ${ }^{13}$ Beta is a measure of the volatility of a security or portfolio compared to the market.

[^8]:    ${ }^{14}$ Duff and Phelps, Table: Equity Risk Premium and Risk-free Rates, https://www.duffandphelps.com/-/media/assets/pdfs/publications/articles/dp-erp-rf-table2020.pdf?la=en\&hash=CEC22CODD9928B72337F9B7E7536C753B0513063
    ${ }^{15}$ See Staff Schedule D-1.3
    ${ }^{16}$ See Staff Schedule D-1.10

[^9]:    ${ }^{17}$ See Staff Schedule D-1.4
    ${ }^{18}$ See Staff Schedule D-1.11

[^10]:    ${ }^{19}$ See In the Matter of the Commission's Investigation of the Tax Cuts and Jobs of 2017 on Regulated Ohio Utility Companies, Case No. 18-47-AU-COI, Finding and Order at 19 (October 24, 2018).

[^11]:    20 "Rule 10 Reports" filed in Case Nos. 16-0550-EL-ESS, 17-0890-EL-ESS, 18-0992-EL-ESS, 19-0992-EL-ESS, and 20-0992-EL-ESS.
    ${ }^{21}$ Includes $\$ 10$ million for incremental vegetation management Inside ROW (2021-2024) and \$15 million for the Danger Tree Program (2021-2023).
    ${ }^{22}$ Reflects Staff's recommendation that the reduction to the funding for the Danger Tree Program in the ESRR cease in 2024

[^12]:    ${ }^{23}$ See In the Matter of the Application of Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to R.C. 4928.143, in the Form of an Electric Security Plan, Case No. 16-1852-EL-SSO, Opinion and Order at 99 (April 25, 2018).

[^13]:    ${ }^{24}$ Applicant's Schedule A-1.
    ${ }^{25}$ Applicant's Schedule A-1.
    ${ }^{26}$ Staff's Schedule A-1.
    ${ }^{27}$ Staff's Schedule A-1.

[^14]:    ${ }^{28}$ See Company response to PUCO-DR-68.

[^15]:    ${ }^{29} \$ 8.40+(\$ 8.40 * 40.36715 \%)=\$ 11.79 ; 40.36715 \%$ represents the total adjustment to the customer's distribution charges from the following riders: EDR, ESRR, RDCR and DIR.

[^16]:    ${ }^{30}$ Danger Trees are defined by the March 1, 2107 AEP Accounting Policy Procedure as, "structurally unsound trees that are capable of striking electric supply lines or structures upon failure." AEP Forestry: Vegetation Management Goals, Procedures \& Guidelines for Distribution and Transmission Line Clearance operations" dated August 1, 2017 defines Danger Tree as any tree on or off the right-of-way with the potential to contact an electric line and a Hazard Tree as a structurally unsound tree that could strike electric lines if it fell. AEP Ohio states that only Hazard Trees were removed as part of the DIR Danger Tree Program, i.e. only a tree that is structurally unsound that could strike electric lines if it fell is eligible for removal as a Danger Tree.

[^17]:    * If not available, an estimate shall be furnished.

[^18]:    Netted against gross plant per FPC Order No. 490

[^19]:    Adjustment to normalize payroll tax expense (Line 6 - Line 8)

