

TARIFF E.S.
(Environmental Surcharge)

APPLICABLE.

To Tariffs R.S., R.S.D., R.S.-L.M.-T.O.D., R.S.-T.O.D., Experimental R.S.-T.O.D. 2, G.S., S.G.S.-T.O.D., M.G.S.-T.O.D., L.G.S., L.G.S.-T.O.D., I.G.S., C.S.- I.R.P., C.S. Coal, M.W., O.L., and S.L.

RATE.

The environmental surcharge shall provide for monthly adjustments based on a percent of revenues, equal to the difference between the environmental compliance costs in the base period as provided in Paragraph 2 below and in the current period as provided in Paragraph 3 below.

The retail share of the revenue requirement will be allocated between residential and non-residential retail customers based upon their respective total revenues during the previous calendar year. The Environmental Surcharge will be implemented as a percentage of total revenues for the residential class and as a percentage of non-fuel revenues for all other customers.

The revenues to which the residential Environmental Surcharge factor are applied is the sum of the customer’s Service Charge, Energy Charge(s), Fuel Adjustment Clause, System Sales Clause, Demand-Side Management Adjustment Clause, Federal Tax Cut, Residential Energy Assistance, Capacity Charge, and Purchase Power Adjustment.

The revenues to which the all other customer Environmental Surcharge factor are applied is the sum of the customer’s Service Charge, Demand Charge, Energy Charge(s) less Base Fuel, Minimum Charge, Reactive Charge, System Sales Clause, Demand-Side Management Adjustment Clause, Federal Tax Cut, Kentucky Economic Development Surcharge, Capacity Charge, and Purchase Power Adjustment.

- 1. Monthly Environmental Surcharge Gross Revenue Requirement, E(m)

Where: E(m) = CRR - BRR
CRR = Current Period Revenue Requirement for the Expense Month.
BRR = Base Period Revenue Requirement.



(Continued on Sheet 29-2)

DATE OF ISSUE: April 9, 2021
DATE EFFECTIVE: Service Rendered On And After January 14, 2021
ISSUED BY: /s/ Brian K. West
TITLE: Vice President, Regulatory & Finance
By Authority of Orders of the Public Service Commission
In Case No. 2020-00174 dated January 13, 2021; January 15, 2021; February 22, 2021, and March 17, 2021



TARIFF E.S. (Cont'd)
(Environmental Surcharge)



RATE (Cont'd)

2. Base Period Revenue Requirement, BRR

BRR = The Following Monthly Amounts:

<u>Billing Month</u>	<u>Base Net Environmental Costs</u>	
January	\$ 3,503,207	R
February	3,961,295	I
March	3,695,547	I
April	4,652,708	I
May	4,476,891	I
June	3,896,996	I
July	4,132,198	I
August	3,932,695	I
September	3,687,618	I
October	3,775,108	R
November	3,816,807	I
December	<u>\$ 3,814,390</u>	R
	<u>\$ 47,345,460</u>	I

In accordance with the Stipulation and Settlement Agreement approved by the Commission by its Order dated October 7, 2013 in Case No. 2012-00578, the Mitchell FGD and all related associated costs are not included in base rates or the Base Revenue Requirement but will be included in the Current Period Revenue Requirement. The Mitchell FGD will be excluded from Base Rates at least until June 30, 2020.

3. Current Period Revenue Requirement, CRR

$$CRR = [((RB_{KP(c)}) (ROR_{KP(c)}) / 12) + OE_{KP(c)} + ((RB_{IM(c)}) (ROR_{IM(c)}) / 12) + OE_{IM(c)}] (.15) - AS$$

Where:

- RB_{KP(C)} = Environmental Compliance Rate Base for Mitchell.
- ROR_{KP(C)} = Annual Rate of Return on Mitchell Environmental Compliance Rate Base; Annual Rate divided by 12 to restate to a Monthly Rate of Return.

(Cont'd on Sheet 29-3)

DATE OF ISSUE: April 9, 2021
 DATE EFFECTIVE: Service Rendered On And After January 14, 2021
 ISSUED BY: /s/ Brian K. West
 TITLE: Vice President, Regulatory & Finance
 By Authority of Orders of the Public Service Commission
 In Case No. 2020-00174 dated January 13, 2021; January 15, 2021; February 22, 2021, and March 17, 2021



TARIFF E.S. (Cont'd)
(Environmental Surcharge)

RATE (Cont'd)

OE _{KP(C)}	=	Monthly Pollution Control Operating Expenses for Mitchell.
RB _{IM(C)}	=	Environmental Compliance Rate Base for Rockport.
ROR _{IM(C)}	=	Annual Rate of Return on Rockport Rate Base; Annual Rate divided by 12 to restate to a Monthly Rate of Return.
OE _{IM(C)}	=	Monthly Pollution Control Operating Expenses for Rockport.
AS	=	Net proceeds from the sale of Title IV and CSAPR SO ₂ emission allowances, ERCs, and NOx emission allowances, reflected in the month of receipt.

“KP(C)” identifies components from Mitchell Units – Current Period, and “IM(C)” identifies components from the Indiana Michigan Power Company’s Rockport Units – Current Period.

The Environmental Compliance Rate Base for both Kentucky Power and Rockport reflects the current cost associated with the 1997 Plan, the 2003 Plan, the 2005 Plan, the 2007 Plan, the 2015 Plan, the 2017 Plan, the 2019 Plan, and the 2021 Plan. The Environmental Compliance Rate Base for Kentucky Power should also include construction work in progress until assets are placed in service. The Operating Expenses for both Kentucky Power and Rockport reflects the current operating expenses associated with the 1997 Plan, the 2003 Plan, the 2005 Plan, the 2007 Plan, the 2015 Plan, the 2017 Plan, the 2019 Plan, and the 2021 Plan.

T
|
T

The Rate of Return for Kentucky Power is 9.10% rate of return on equity as authorized by the Commission in its Order Dated January 13, 2021, Case No. 2020-00174.

The Rate of Return for Rockport should reflect the requirements of the Rockport Unit Power Agreement.

Net Proceeds from the sale of emission allowances and ERCs that reflect net gains will be a reduction to the Current Period Revenue Requirement, while net losses will be an increase.

The Current Period Revenue Requirement will reflect the balances and expenses as of the Expense Month of the filing.



(Cont'd on Sheet No. 29-4)

DATE OF ISSUE: July 30, 2021
DATE EFFECTIVE: Service Rendered On And After September 28, 2021
ISSUED BY: /s/ Brian K. West
TITLE: Vice President, Regulatory & Finance
By Authority Of an Order of the Public Service Commission
In Case No. 2021-00004 Dated July 15, 2021



TARIFF E.S. (Cont'd)
(Environmental Surcharge)



RATE (Cont'd)

4. Revenue Allocation

$$\text{Residential Allocation RA(m)} = \frac{\text{KY Residential Retail Revenue RR(b)}}{\text{KY Retail Revenue R(b)}}$$

$$\text{All Other Allocation OA(m)} = \frac{\text{KY All Other Classes Retail Revenue OR(b)}}{\text{KY Retail Revenue R(b)}}$$

Where:

- (m) = the expense month
- (b) = most recent calendar year revenues

5. Environmental Surcharge Factor

$$\text{Residential Monthly Environmental Surcharge Factor} = \frac{\text{Net KY Retail E(m)} * \text{RA(m)}}{\text{KY RR(m)}}$$

$$\text{All Other Monthly Environmental Surcharge Factor} = \frac{\text{Net KY Retail E(m)} * \text{AO(m)}}{\text{KY OR(m)- KY OF(m)}}$$

Where:

Net KY Retail E(m) = Monthly E(m) allocated to Kentucky Retail Customers, net of Over/ (Under) Recovery Adjustment; Allocation based on Percentage of Kentucky Retail Revenues to Total Company Revenues in the Expense Month.

(For purposes of this formula, Total Company Revenues do not include Non -Physical Revenues.)

RR(m) = Average Kentucky Residential Retail Revenues for the Preceding Twelve Month Period

OR(m) = Average Kentucky All Other Classes Retail Revenues for the Preceding Twelve Month Period

OF(m) = Average Kentucky All Other Classes Fuel Revenues for the Preceding Twelve Month Period.

(Cont'd on Sheet No. 29-5)

DATE OF ISSUE: April 9, 2021
 DATE EFFECTIVE: Service Rendered On And After January 14, 2021
 ISSUED BY: /s/ Brian K. West
 TITLE: Vice President, Regulatory & Finance
 By Authority of Orders of the Public Service Commission
 In Case No. 2020-00174 dated January 13, 2021; January 15, 2021; February 22, 2021, and March 17, 2021



TARIFF E.S. (Cont'd)
(Environmental Surcharge)

RATE (Cont'd)

6. Environmental costs "E" shall be the Company's costs of compliance with the Clean Air Act and those environmental requirements that apply to coal combustion wastes and by-products, as follows:

Total Company:

- return on Title IV and CSAPR SO₂ allowance inventory
- over/under recovery balances between the actual costs incurred less the amount collected through the environmental surcharge
- costs associated with any Commission's consultant approved by the Commission
- costs associated with the consumption of Title IV and CSAPR SO₂ allowances
- costs associated with the consumption of NO_x allowances
- return on NO_x allowance inventory
- costs associated with maintaining approved pollution control equipment including material and contract labor (excluding plant labor)
- costs associated with consumables used in conjunction with approved environmental projects.
- return on inventories of consumables used in conjunction with approved environmental projects.
- return on environmental compliance rate base including construction work in progress.
- Monthly expense to amortize the \$1,446,998.35 regulatory asset for prudently incurred ELG (Effluent Limitation Guidelines) project costs over a two-year period to begin with July 2022 billing and conclude with June 2024 billing.

T
↓

CANCELLED

January 16, 2024

**KENTUCKY PUBLIC
SERVICE COMMISSION**

(Cont'd on Sheet No. 29-6)

DATE OF ISSUE: May 23, 2022
 DATE EFFECTIVE: Bills Rendered On And After June 29, 2022
 ISSUED BY: /s/ Brian K. West
 TITLE: Vice President, Regulatory & Finance
 By Authority Of an Order of the Public Service Commission
 In Case No. 2021-00004 Dated May 3, 2022

**KENTUCKY
PUBLIC SERVICE COMMISSION**

Linda C. Bridwell
Executive Director



EFFECTIVE
6/29/2022
PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

TARIFF E.S. (Cont'd)
(Environmental Surcharge)

RATE (Cont'd)

The Company's share of costs associated with the following environmental equipment at the Rockport Plant:

- Continuous Emissions Monitors
- Air Emission Fees
- Costs Associated with the Rockport Unit Power Agreement
- Activated Carbon Injection
- Mercury Monitoring
- Precipitator Modifications
- Dry Sorbent Injection
- Coal Combustion Waste Landfill
- Low NOx burners, over Fire Air Landfill
- Selective Catalytic Reduction Technology

The Company's share of costs associated with the following environmental equipment at the Mitchell Plant:

- Mitchell Unit Nos 1 and 2 Water Injection, Low NO_x burners, Low NO_x burner Modification, SCR, FGD, Landfill, Coal Blending Facilities and SO₃ Mitigation
- Mitchell Plant Common CEMS, Replace Burner Barrier Valves and Gypsum Material Handling Facilities
- Air Emission Fees
- Precipitator Modifications and Upgrades
- Coal Combustion Waste Landfill
- Bottom Ash and Fly Ash Handling
- Mercury Monitoring (MATS)
- Dry Fly Ash Handling Conversion
- Wastewater Ponds (for the Mitchell CCR compliance project) with depreciation expense calculated using a 20 percent depreciation rate approved by the Commission's July 15, 2021 and May 3, 2022 Orders in Case No. 2021-00004.

T
↓



(Cont'd on Sheet No. 29-7)

DATE OF ISSUE: May 23, 2022
 DATE EFFECTIVE: Bills Rendered On And After June 29, 2022
 ISSUED BY: /s/ Brian K. West
 TITLE: Vice President, Regulatory & Finance
By Authority Of an Order of the Public Service Commission
In Case No. 2021-00004 Dated July 15, 2021 and May 3, 2022



TARIFF E.S. (Cont'd)
(Environmental Surcharge)

RATE (Cont'd)

- 7. The monthly environmental surcharge shall be filed with the Commission ten (10) days before it is scheduled to go into effect, along with all necessary supporting data to justify the amount of the adjustments which shall include data and information as may be required by the Commission.

CANCELLED

January 16, 2024

**KENTUCKY PUBLIC
SERVICE COMMISSION**

DATE OF ISSUE: April 9, 2021
 DATE EFFECTIVE: Service Rendered On And After January 14, 2021
 ISSUED BY: /s/ Brian K. West
 TITLE: Vice President, Regulatory & Finance
 By Authority of Orders of the Public Service Commission
 In Case No. 2020-00174 dated January 13, 2021; January 15, 2021; February 22, 2021, and March 17, 2021

**KENTUCKY
PUBLIC SERVICE COMMISSION**

Linda C. Bridwell
Executive Director



**EFFECTIVE
1/14/2021**
PURSUANT TO 807 KAR 5:011 SECTION 9 (1)