ES FORM 1.00

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Net Group E(m) and Group Environmental Surcharge Billing Factors For the Expense Month of

GROUP 1 (Total Revenue)	
Group 1 E(m) ES Form 1.10, line 16	=
Group 1 ES Billing Factor ES Form 1.10, line 18	=
GROUP 2 (Net Revenue)	
Group 2 E(m) ES Form 1.10, line 16	=
Group 2 ES Billing Factor ES Form 1.10, line 18	=
Effective Date for Billing:	
Submitted by:	
Title: Manager, Revenue Requirement/Cost of Service	
Date Submitted:	

ES FORM 1.10

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Calculation of Total E(m) and Group Surcharge Billing Factors

For the Expense Month of

Calculation of Total E(m)

E(m) = [(RB / 12) (ROR+(RC	(DR - DR)(TR/(1-TR)))] + OE - BAS + BR, where
RB	=	Environmental Compliance Rate Base
ROR	=	Rate of Return on the Environmental Compliance Rate Base
DR	=	Debt Rate (both short-term and long-term debt)
TR	=	Composite Federal & State Income Tax Rate
OE	=	Pollution Control Operating Expenses
BAS	=	Total Proceeds from By-Product and Allowance Sales
BR	_	Beneficial Reuse Operating Expenses

		Pre-2020 Environmental Compliance Plans	2020 Environmental Compliance Plan
(1) RB		=	
(2) RB / 12		=	
(3) $(ROR + (R$	OR - DR) (TR / (1 - TR)))	=	
(4) OE		=	
(5) BAS		=	
(6) BR		=	
(7) E(m)	$(2) \times (3) + (4) - (5) + (6)$	=	
(8) Total E(m)	= sum of Pre-2020 E(m) + 2020 E(m)	=	

$Calculatio\underline{n} \ of \ Adjusted \ Net \ Jurisdictional \ E(m)$

(9)	Jurisdictional Allocation Ratio for Expense Month ES Form 3.10	=
(10)	$\label{eq:Jurisdictional} \text{Jurisdictional Allocation Ratio} \text{[(8) x (9)]}$	=
(11)	Adjustment for (Over)/Under-collection pursuant to Case No.	=
(12)	Prior Period Adjustment (if necessary)	=
(13)	Revenue Collected through Base Rates	=
(14)	Adjusted Net Jurisdictional E(m) $[(10) + (11) + (12) - (13)]$	=
l		

Calculation of Group Environmental Surcharge Billing Factors

		GROUP 1 (Total Revenue)	GROUP 2 (Net Revenue)
(15)	Revenue as a Percentage of 12-month Total Revenue ending with the Current Month ES Form 3.00	=	
(16)	Group E(m) [(14) x (15)]	=	
(17)	Group $R(m)$ = Average Monthly Group Revenue for the 12 Months Ending with the Current Expense Month ES Form 3.00	=	
(18)	Group Environmental Surcharge Billing Factors $[(16) \div (17)]$	=	

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Revenue Requirements of Environmental Compliance Costs For the Expense Month of

Determination of Environmental Compliance Rate Base

Pre-2020 Environmental Compliance Plans

Eligible Pollution Control Plant

Eligible Pollution CWIP Excluding AFUDC

Subtotal

Additions:

Inventory - Emission Allowances per ES Form 2.31, 2.32, 2.33, and 2.34

Cash Working Capital Allowance

Net Unamortized Closure Cost Balance¹

Subtotal

Deductions:

Subtotal

Accumulated Depreciation on Eligible Pollution Control Plant

Determination of Beneficial Reuse Operating Expenses

Net Beneficial Reuse Operations Expense

Pollution Control Deferred Income Taxes

Environmental Compliance Rate Base

Determination of Pollution Control Operating Expenses Pre-2020 2020 Environmental Environmental Compliance Plans Compliance Plan Monthly Operations & Maintenance Expense Monthly Depreciation & Amortization Expense Less: Investment Tax Credit Amortization Monthly Taxes Other Than Income Taxes - Eligible Plant Monthly Taxes Other Than Income Taxes - Closure Costs Amortization of Monthly Closure Costs Amortization of Excess ADIT with gross-up Monthly Emission Allowance Expense from ES Form 2.31, 2.32, 2.33, and 2.34 Monthly Surcharge Consulting Fees Construction Monitoring Consultant Fee Total Pollution Control Operations Expense

Total Monthly Beneficial Reuse Expense
Adjustment for Beneficial Reuse in Base Rates (from ES Form 2.61)

Note 1: The net unamortized closure cost balance is comprised of CCR closure cost expenditures less accumulated amortization, accumulated deferred income taxes and amount in base rates.

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Amortization of Monthly CCR Closure Costs

For the Month Ended:

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Description	Accumulated CCR Closure Costs	Accumulated Amortization (Prior Month)	Current Month Amortization	Accumulated Amortization (Current Month)	Accumulated Deferred Income Taxes (ADIT)	Unamortized CCR Closure Cost Balance (Net of ADIT)
			[(2)-(3)]/ RemainingAmortMonths	(3)+(4)		(2)-(5)-(6)
2016 Plan: Project 29 - Mill Creek Station Project 30 - Trimble County Station						
Net Total - All Projects:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1: The Accumulated Deferred Income Taxes (ADIT) includes Excess Deferred Taxes resulting from the Tax Cuts and Jobs Act

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Plant, CWIP & Depreciation Expense

For the Month Ended:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Description	Eligible Plant In Service	Eligible Accumulated Depreciation	CWIP Amount Excluding AFUDC	Eligible Net Plant In Service	Deferred Tax Balance as of Date	Monthly ITC Amortization Credit	Monthly Depreciation Expense	Monthly Property Tax Expense
				(2)-(3)+(4)				
2009 Plan: Project 22 - Cane Run CCP Storage (Landfill - Phase I) [CANCELLED] Project 23 - Trimble County Ash Treatment Basin (BAP/GSP) Project 24 - Trimble County CCP Storage (Landfill - Phase 1) Project 25 - Beneficial Reuse								
Subtotal Less Retirements and Replacement resulting from implementation of 2009 Plan								
Net Total - 2009 Plan:								
2011 Plan: Project 26 - Mill Creek Station Air Compliance Project 27 - Trimble County Unit 1 Air Compliance								
Subtotal Less Retirements and Replacement resulting from implementation of 2011 Plan								
Net Total - 2011 Plan:								
2016 Plan: Project 28 - Supplemental Mercury Control Project 29 - Mill Creek New Process Water Systems Project 30 - Trimble County New Process Water Systems								
Subtotal Less Retirements and Replacement resulting from implementation of 2016 Plan								
Net Total - 2016 Plan:								
2020 Plan Project 31 - Mill Creek ELG Water Treatment System and Diffuser Project 32 - Trimble County ELG Water Treatment System								
Subtotal Less Retirements and Replacement resulting from implementation of 2020 Plan								
Net Total - 2020 Plan:								
Net Total - All Plans:		İ						

Note 1: Trimble County projects for the 2009 Plan and 2020 Plan are proportionately shared by KU at 48% and LG&E at 52%.

Note 2: Effective with the September 2012 expense month, Project 22 is cancelled and the previous CWIP balance is included on ES Form 2.50 as an expense for the September 2012 expense month.

Note 3: The Deferred Tax Balance includes Excess Deferred Taxes resulting from the Tax Cuts and Jobs Act.

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Inventory of Emission Allowances

For the Month Ended:

Vintage Year		Number of	f Allowances			Total Dollar Valu	e Of Vintage Year	r	Comments and Explanations
	SO_2	SO_2	NOx	NOx	SO_2	SO_2	NOx	NOx	
	CAIR	CSAPR	Ozone Season	Annual	CAIR	CSAPR	Ozone Season	Annual	
Current Year									
2021									
2022									
2023									
2024									
2025									
2026									
2027									
2028									
2029									
2030									
2031									
2032									
2033									
2034									
2035									
2036				•					
2037									
2038									
2039									
2040									
2041 - 2050									

In the "Comments and Explanation" Column, describe any allowance inventory adjustment other than the assignment of allowances by EPA. Inventory adjustments include, but are not limited to, purchases, allowances acquired as part of other purchases, and the sale of allowances.

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Inventory of CAIR Emission Allowances (SO_2) - Current Vintage Year

For the Expense Month of

	Beginning	Allocations/	Utilized	Utilized		Ending	Allocation, Purchase, or
	Inventory	Purchases	(Coal Fuel)	(Other Fuels)	Sold	Inventory	Sale Date & Vintage Years
		•			•		<u> </u>
TOTAL EMISSIO	ON ALLOWANCE	S IN INVENTORY	, ALL CLASSIFIC	ATIONS			
Quantity							
Dollars							
\$/Allowance							
ALLOCATED AI	LLOWANCES FRO	OM EPA: COAL F	UEL				
Quantity							
Dollars							
İ.							
ALLOCATED AI	LLOWANCES FRO	OM EPA: OTHER	FUELS				
Quantity							
Dollars							
	FROM PURCHAS	ES:					
From Market:							
Quantity							
Dollars							
\$/Allowance							
From KU							
Quantity							
Dollars							
\$/Allowance							

Emission Allowance Expense for Other Power Generation is excluded from expense reported on Form 2.00 for recovery through the monthly billing factor

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Inventory of CSAPR Emission Allowances (SO_2) - Current Vintage Year

For the Expense Month of

	Beginning	Allocations/	Utilized	Utilized		Ending	Allocation, Purchase, or
	Inventory	Purchases	(Coal Fuel)	(Other Fuels)	Sold	Inventory	Sale Date & Vintage Years
TOTAL EMISSIO	ON ALLOWANCE	S IN INVENTORY	, ALL CLASSIFIC	CATIONS			
Quantity							
Dollars							
\$/Allowance							
ALLOCATED AI	LOWANCES FRO	OM EPA: COAL FU	UEL				
Quantity							
Dollars							
ALLOCATED AI	LOWANCES FRO	OM EPA: OTHER	FUELS				
Quantity							
Dollars							
	FROM PURCHASI	ES:					
From Market:							
Quantity							
Dollars							
\$/Allowance							
From KU							
Quantity							
Dollars							
\$/Allowance							
						-	

Emission Allowance Expense for Other Power Generation is excluded from expense reported on Form 2.00 for recovery through the monthly billing factor

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Inventory of Emission Allowances (NOx) - Ozone Season Allowance Allocation

For the Expense Month of

TOTAL EMISSION ALLOWA Quantity Dollars \$/Allowance ALLOCATED ALLOWANCES Quantity Dollars ALLOCATED ALLOWANCES Quantity Dollars ALLOWANCES ALLOWANCES FROM PURC From Market:	FROM EPA: COAL I	FUEL	CATIONS			
Quantity Dollars \$/Allowance ALLOCATED ALLOWANCES Quantity Dollars ALLOCATED ALLOWANCES Quantity Dollars ALLOWANCES ALLOWANCES FROM PURC From Market:	FROM EPA: COAL I	FUEL				
Dollars \$/Allowance ALLOCATED ALLOWANCES Quantity Dollars ALLOCATED ALLOWANCES Quantity Dollars ALLOWANCES FROM PURC From Market:						
ALLOCATED ALLOWANCES Quantity Dollars ALLOCATED ALLOWANCES Quantity Dollars ALLOWANCES FROM PURC From Market:						
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Quantity Dollars ALLOCATED ALLOWANCES Quantity Dollars ALLOWANCES FROM PURC From Market:						
ALLOCATED ALLOWANCES Quantity Dollars ALLOWANCES FROM PURC From Market:	FROM EPA: OTHER	R FUELS				
ALLOCATED ALLOWANCES Quantity Dollars ALLOWANCES FROM PURC From Market:	FROM EPA: OTHER	R FUELS				
Quantity Dollars ALLOWANCES FROM PURC From Market:	FROM EPA: OTHER	R FUELS				
Quantity Dollars ALLOWANCES FROM PURC From Market:	FROM EPA: OTHER	RFUELS				
Quantity Dollars ALLOWANCES FROM PURC From Market:	TROM ET A. OTHER	CFUELS				
ALLOWANCES FROM PURC From Market:						
ALLOWANCES FROM PURC From Market:						
From Market:						
From Market:			!		<u> </u>	
	HASES:					
Quantity						
Dollars						
\$/Allowance						
•	•	•	•	•	•	
From KU:						
Quantity						
Dollars						
\$/Allowance						

Emission Allowance Expense for Other Power Generation is excluded from expense reported on Form 2.00 for recovery through the monthly billing factor.

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Inventory of Emission Allowances (NOx) - Annual Allowance Allocation

For the Expense Month of

	Beginning Inventory	Allocations/ Purchases	Utilized (Coal Fuel)	Utilized (Other Fuels)	Sold	Ending Inventory	Allocation, Purchase, or Sale Date & Vintage Years
TOTAL EMISSI	•	S IN INVENTORY					
Quantity			1				
Dollars							
\$/Allowance							
ALLOCATED A	LLOWANCES FRO	OM EPA: COAL F	UEL		•		
Quantity							
Dollars							
	LLOWANCES FRO	OM EPA: OTHER	FUELS	I	1	T	
Quantity							
Dollars							
	1	1					
	FROM PURCHAS	ES:					
From Market:							
Quantity							
Dollars							
\$/Allowance							
From KU:							
Quantity							
Dollars							
\$/Allowance							

 $Emission \ Allowance \ Expense \ for \ Other \ Power \ Generation \ is \ excluded \ from \ expense \ reported \ on \ Form \ 2.00 \ for \ recovery \ through \ the \ monthly \ billing \ factor.$

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

O&M Expenses and Determination of Cash Working Capital Allowance

For the Month Ended:

Environmental Compliance Plan						
	Pre-2020 Environmental	2020 Environmental				
O&M Expenses	Compliance Plans	Compliance Plan				
11th Previous Month						
10th Previous Month						
9th Previous Month						
8th Previous Month						
7th Previous Month						
6th Previous Month						
5th Previous Month						
4th Previous Month						
3rd Previous Month						
2nd Previous Month						
Previous Month						
Current Month						
Total 12 Month O&M						

Determination of Working Capital Allowance					
12 Months O&M Expenses					
One Eighth (1/8) of 12 Month O&M Expenses	1/8	1/8			
Pollution Control Cash Working Capital Allowance					

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Pollution Control - Operations & Maintenance Expenses For the Month Ended:

O&M Evnance Account	Mill Creek	Trimble County	Total			
O&M Expense Account	Will Creek	Trimble County	Total			
2009 Plan						
502013 - ECR Landfill Operations						
512107 - ECR Landfill Maintenance						
Adjustment for CCP Disposal in Base Rates (ES Form 2.51)						
Net 2009 Plan O&M Expenses						
2011 Plan						
502056 - ECR Scrubber Operations						
512055 - ECR Scrubber Maintenance						
506159 - ECR Sorbent Injection Operation						
506152 - ECR Sorbent Reactant - Reagent Only						
512152 - ECR Sorbent Injection Maintenance						
506156 - ECR Baghouse Operations						
512156 - ECR Baghouse Maintenance						
506151 - ECR Activated Carbon						
Adjustment for Base Rates Baseline Amounts						
Total 2011 Plan O&M Expenses						
2016 Plan						
506153 - ECR Liquid Injection - Reagent Only						
Total 2016 Plan O&M Expenses						
2020 Plan						
502015 - ECR Effluent Water Chemicals						
502017 - ECR Effluent Water Operations						
512157 - ECR Effluent Water Maintenance						
Total 2020 Plan O&M Expenses						
Current Month O&M Expense for All Plans						

Note 1: Trimble County projects for the 2009 Plan and 2020 Plan are proportionately shared by KU at 48% and LG&E at 52%.

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

CCP Disposal Facilities Expenses For the Month Ended:

On-Site CCP Disposal O&M Expense	Trimble County
Existing CCP Disposal Facilities (Pre 2009 Plan Project)	
(1) 12 Months Ending with Expense Month	
(2) Monthly Amount [(1) / 12]	
2000 Plan Praire	
2009 Plan Project	
(3) Monthly Expense	
Total Generating Station	
(4) Monthly Expense [(2) + (3)]	
Base Rates	
(5) Annual Expense Amount (12 Mo Ending with Last Test Year)	
(6) Monthly Expense Amount [(5) / 12]	
(7) Total Generating Station Less Base Rates [(4) - (6)]	
(8) Less 2009 Plan Project [(7) - (3)]	
2000	
If Line (8) Greater than Zero, No Adjustment	
If Line (8) Less than Zero, Adjustment for Base Rates	
Adjustment for Base Rate Amount (to ES Form 2.50)	

Note 1: Trimble County projects for the 2009 Plan are proportionately shared by KU at 48% and LG&E at 52%.

Note 2: ES Form 2.51 will not be utilized until O&M costs associated with the 2009 Plan are incurred.

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Beneficial Reuse - Operations & Maintenance Expenses For the Month Ended:

Third Party	O&M Expense Account	Plant	Total O&M
Tury	Octivi Emperise recount	T IMIT	101111 000111
Total Monthly Beneficial Reuse Expense			
Adjustment for Beneficial Reuse in Base Rate	es (from ES Form 2.61)		
Net Beneficial Reuse O&M Expense			

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Beneficial Reuse Opportunities For the Month Ended:

On-Site CCP Disposal O&M Expense	Mill Creek	Trimble County	Total
Existing Beneficial Reuse Opportunities (Pre 2009 Plan Project)			
(1) 12 Months Ending with Expense Month			
(2) Monthly Amount [(1) / 12]			
2009 Plan Project 25			
(3) Monthly Amount (Expense/Revenue)		+	
Total Beneficial Reuse - Generating Station			
(4) Monthly Expense [(2) + (3)]			
Beneficial Reuse in Base Rates			
(5) Annual Expense Amount (12 Mo Ending with Last Test Year)			
(6) Monthly Expense Amount [(5) / 12]			
(7) Total Generating Station Less Base Rates [(4) - (6)]			
(8) Less 2009 Plan Project 25 [(7) - (3)]			
If Line (8) Greater than Zero, No Adjustment			
If Line (8) Less than Zero, Adjustment for Base Rates			
Adjustment for Base Rate Amount (to ES Form 2.60)			

Note 1: Trimble County projects for the 2009 Plan are proportionately shared by KU at 48% and LG&E at 52%.

Note 2: \$0 is included in the Mill Creek beneficial reuse in base rates (Line 5) as filed in Case Number 2018-00295.

ES FORM 3.00

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Monthly Average Revenue Computation of R (m) for GROUP 1 AND GROUP 2

For the Month Ended:

	GROUP 1 (Total Revenues) - Kentucky Jurisdictional Revenues						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Month	Non-fuel Base Rate Revenues	Base Rate Fuel Component	Fuel Clause Revenues Including Off-System Sales Tracker	DSM Revenues	Environmental Surcharge Revenues	Total (2)+(3)+(4)+(5)+(6)	Total Excluding Environmental Surcharge (7)-(6)
A M d.l. T	i rai ID	1 F - C	3 1				
for 12 Months Endi	urisdictional Revenues, E ing Current Expense Mon	th.					
			Surcharge for 12-months en s ending with the Current N		nth =		

	GROUP 2 (Net Revenues) - Kentucky Jurisdictional Revenues							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Month	Non-fuel Base Rate Revenues	Base Rate Fuel Component	Fuel Clause Revenues Including Off-System Sales Tracker	DSM Revenues	Environmental Surcharge Revenues	Total	Total Excluding Environmental Surcharge	Total Non-Fuel Revenues plus DSM
						(2)+(3)+(4)+(5)+(6)	(7)-(6)	(2)+(5)
Average Monthly Jurisdictional Revenues, Excluding Environmental Surcharge and Fuel, for 12 Months Ending Current Expense Month.								
Average Kentucky Jurisdictional Revenues excluding Environmental Surcharge for 12-months ending with Current Month =								
GROUP 2 Revenues as a Percentage of Total Revenues for 12-months ending with the Current Month								

ES FORM 3.10

LOUISVILLE GAS AND ELECTRIC COMPANY ENVIRONMENTAL SURCHARGE REPORT

Reconciliation of Reported Revenues

For the Month Ended:

		Revenues per	Revenues per
		Form 3.00	Income Statement
Kentucky Retail Revenues			
(1) Base Rates (Customer Charge, Energy Charge, Demar	nd Charge)		
(2) Fuel Adjustment Clause including Off System Sales T	racker		
(3) DSM			
(4) Environmental Surcharge			
(5) CSR Credits			
(6) EDR Credits			
(7) Total Kentucky Jurisdictional Revenu	es for Environmental Surcharge Purposes =		
Non -Jurisdictional Revenues			
(8) InterSystem (Total Less Transmission Portion Booked			
(9) Total Non-Jurisdictional Revenu	es for Environmental Surcharge Purposes =		
(10) Total Company Revenu	es for Environmental Surcharge Purposes =		
Jurisdictional Allocatio	n Ratio for Current Month [(7) / (10)] =		
Reconciling Revenues			
(11) Brokered			
(12) InterSystem (Transmission Portion Booked in Accoun	t 447)		
(13) Unbilled			
(14) Miscellaneous			
(15) Total Company Revenues per Incom	ne Statement =	·	

NOTE (1): Base Rates (Line 1) includes the TCJA credit of \$0.00 for this month.

NOTE (2): Revenues per Form 3.00 do not include solar and therefore will not always reflect Revenues per Income Statement.