American Electric Power 101A Enterprise Drive PO 8ox 5190 Frankfort, KY 40602-5190 www.aep.com



Elizabeth O'Donnell, Executive Director Attn.: Isaac S. Scott Public Service Commission P. O. Box 615 211 Sower Boulevard Frankfort, KY 40602

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PUBLIC SERVICE GOMMISSION

April 19, 2005

Re: Monthly Environmental Surcharge Report

Dear Ms. O'Donnell

Pursuant to KRS 278.183(3), Kentucky Power Company files herewith an original and five copies of its Environmental Surcharge Report for the month of March 2005. The report is in compliance with the Commission's Order dated March 31, 2003 in Case No. 2002-00169. The report shows the calculation and supporting documentation of Kentucky Power Company's Environmental Surcharge Factor that will be billed with service on and after April 29, 2005.

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ES FORM 3.10 includes Monthly Environmental Equipment Operation and Maintenance Costs (See LINE NO 18) that pertain to the environmental facilities included in the environmental compliance plan per the Order dated April 16, 2004 in Case No. 2004-00081. Also, per the order, attached is an explanation of the March 2005 environmental equipment operation and maintenance costs.

Sincerely,

Errol K. Wagner

Director Regulatory Services

# American Electric Power Environmental Equipment Operation and Maintenance Costs March 2005

Work Description	Material Costs	Outside Contract Labor	Misc Other Costs	Total Costs
Inspection and Maintenance of Ammonia On Demand (AOD) System	\$3,649.29	\$0.00	\$0.00 <sup>-</sup>	\$3,649.29
SCR Boiler Outlet Ductwork	\$0.00	\$0.00	\$0.00	\$0:00
SCR Acoustic Sootblower Horns	\$147.90	\$0.00	\$0.00	\$147.90
SCR Instrument & Control	\$2,389.08	\$0.00	\$0.00	\$2,389.08
NOX Monitor Vacuum Pumps - SCR NOX Monitoring	\$160.00	. \$ <u>0</u> .00	\$0.00	\$160.00
SCR Repair Booster Fans & Motor	\$1,394.26	\$0:00	\$0.00	\$1,394.26
Total SCR March 2005 O & M Expense	\$7,740.53	<b>\$0.00</b>	\$0.00	\$7,740.53
Additional Operator Overtime During The Ozone Season	\$0.00	\$0.00	\$0.00	\$0.00
Emission Testing Required Under Permit -				•
Operation Maintenance	\$877.14 \$5,290.60	\$0.00 \$0.00	\$0.00 \$0.00	\$877.14 \$5,290.60
March 2005 O & M Expenses Filed				\$13,908

# AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CALCULATION OF E(m) and SURCHARGE FACTOR For the Expense Month of March 2005

	CALCULATION OF E(m)					
	E(m) = CRR - BRR					
LINE	1	CRR from ES FORM 3.00	\$2,598,537			
LINE	2	Brr from ES FORM 2.00	<b>\$</b> 15,785			
LINE	3	E(m) (LINE 1 - LINE 2)	\$2,582,752			
LINE	4	Kentucky Retail Jurisdictional Allocation Factor, from ES FORM 3.30, Schedule of Revenues, LINE 1	61.7%			
LINE	5	KY Retail E(m) (LINE 3 * LINE 4)	\$1,593,558			
LINE	6	Over/(Under) Recovery Adjustment from ES FORM 3.30	\$184,624			
LINE	7	Net KY Retail E(m) (LINE 5 + LINE 6)	\$1,778,182			
		SURCHARGE FACTOR				
LINE	8	Net KY Retail E(m) (Line 7)	\$1,778,182			
LINE	9	KY Retail R(m) from ES FORM 3.30	\$29,204,488			
LINE	10	Environmental Surchage Factor for Expense Month (Line 8 / LINE 9)	6.0887%			

Effective Date for Billing:	May 2005
Submitted By :	Enof & Mogner
Title:	Director Regulatory Services
Date Submitted :	April 19, 2005

# AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT BASE PERIOD REVENUE REQUIREMENT For the Expense Month of December 1990

# CALCULATION OF BASE PERIOD REVENUE REQUIREMENT

LINE NO.	COMPONENTS	·
1 2	First Component - Associated with Big Sandy ((RB KP(B)) (ROR KP(B))/12)) ES FORM 2.10, Line 11 Second Component - Associated with Rockport [((RB IM(B)) (ROR IM(B))/12)) + OE IM (B)] (.15) ES FORM 2.11, Line 12	\$15,625 <u>\$160</u>
3	Total Base Period Revenue Requirement, BRR Record on ES FORM 1.00, Line 2	\$15,785

## AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT BASE PERIOD REVENUE REQUIREMENT COSTS ASSOCIATED WITH BIG SANDY

# For the Month of December 1990

LINE NO.	COST COMPONENT		
100.	COST COMPONENT		
	Return on Rate Base (Balances as of December 31, 1990):		
1	Utility Plant at Original Cost	\$3,920,119	
2	Less Accumulated Depreciation	(\$2,995,865)	
3	Less Acum. Def. Income Taxes	(\$475,467)	
4	Total Rate Base		\$448,787
5	Weighted Average Cost of Capital - ES FORM 2.20	12.8200%	
6	Monthly Weighted Avg. Cost of Capital (5)/12		1.0683%
7	December 1990 Return on Rate Base (4) * (6)		\$4,794
l i	Operating Expenses:		
´8	December 1990 Depreciation Expense		\$10,597
9	December 1990 Property Tax		\$234
10	Total Operating Expenses (8) + (9)		\$10,831
11	Total Revenue Requirement, Costs Associated with		<del></del>
	Big Sandy (7) + (10) Record on ES FORM 2.00, Line1		\$15,625

### AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT COSTS ASSOCIATED WITH ROCKPORT

### For the Month of December 1990

LINE			
NO.	COST COMPONENT	•	
	Return on Rate Base:	•	
1	Utility Plant at Oringinal Cost	\$107,550	
2 '	Less Accumulated Depreciation	(\$22,554)	
3	Less Accum. Def. Income Taxes	(\$13,834)	
4	Total Rate Base		\$71,162
5	Weighted Average Cost of Capital - ES FORM 2.21	12.6216%	
6	Monthly Weighted Avg. Cost of Capital (LINE 5/12)		1.0518%
7	Monthly Return of Rate Base (4 * 6)		\$748
	Operating Expenses:		,
8	Monthly Depreciation Expense		\$313
. 9	Monthly Indiana Air Emissions Fee		<u>\$7</u>
10	Total Operating Expenses (8 + 9)		\$320
11	Total Revenue Requirement, Cost Associated with		<u>, , , , , , , , , , , , , , , , , , , </u>
	Rockport (7) + (10)		\$1,068
12	Kentucky Power Portion of Rockport Total		, ,,,,,,,
l i	Revenue Requirement. Record on ES FORM 2.00,		
<b>i</b>	Line 2 (11 * 15%)		\$160
			Ψ100

The Base Period Revenue Requirement information will only need to be filed once during the first 2-year period, as part of the first monthly surcharge filing. Attach a schedule similar to Exhibit EKW-2, page 11 of 11 (Wagner Direct Testimony in Case No. 96-489), showing the calculation of the Weighted Average Cost of Capital. These calculations should reflect the provisions of the Rockport Unit Power Agreement, and be as of December 1990.

# AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT BIG SANDY PLANT COST OF CAPITAL For the Expense Month of December 1990

LINE NO.	Component	Balances	Cap. Structures	Cost Rates		WACC (NET OF TAX)	GRCF		WACC (PRE - TAX)
1 2 3	L/T DEBT S/T DEBT C EQUITY TOTAL	240,670,885 17,796,815 190,611,826 449,079,526	53.59% 3.96% 42.45% 100.00%	8.20% 9.16% 11.50%	1/	4.39% 0.36% 4.88% 9.63%	1.6545	2/	4.39% 0.36% 8.07% 12.82%
WACC = Weighted Average Cost of Capital  1/ Rate of Return on Common Equity per Case No. 2002 - 00169  2/ Gross Revenue Conversion Factor (GRCF) Calculation:									
1 OPERATING REVENUE 100.00 2 UNCOLLECTIBLE 0.20 3 INCOME BEFORE STATE TAXES 99.80 4 LESS: STATE INCOME TAX								ļ	
5 (LINE 3 X .0825) 8.23 6 INCOME BEFORE FED INC TAX 91.57 7 LESS : FEDERAL INCOME TAX									
8       (LINE 6 X .34)         9       OPERATING INC PERCENTAGE         10       GROSS REVENUE CONVERSION    31.13 60.44									
11	FACTOR	(100%/LINE 9)	<u></u>				1.6545		

## AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT ROCKPORT UNIT POWER AGREEMENT COST OF CAPITAL For the Expense Month of December 1990

LINE NO.	DESC	CAP. BAL.	WEIGHTED CAP. BAL.	CAP. COST RATES		WAC (NET OF TAX)	GRCF		WAC (PRE - TAX)
1 2 3 4 5	L/T DEBT S/T DEBT S/T INV DEBT C EQUITY	162,770,349 0 (26,356,261) 94,919,467 231,333,555	70.3618% 0.0000% -11.3932% 41.0314% 	7.7961% 0.0000% 7.7961% 12.1600%		5.4855% 0.0000% -0.8882% 4.9894%	1.608260	2/	4.5973% 8.0243%  12.6216% ======
1/_	WACC = Weighted Average Cost of Capital  1/ Cost Rates per the Provisions of the Rockport Unit Power Agreement								
2/ Gross Revenue Conversion Factor (GRCF) Calculation:  1 OPERATING REVENUE 2 LESS: INDIANA AJUSTED GROSS INCOME 3 (LINE 1 X .0434) 4 INCOME BEFORE FED INC TAX 5 LESS: FEDERAL INCOME TAX 6 (LINE 4 X .35) 7 OPERATING INCOME PERCENTAGE 8 GROSS REVENUE CONVERSION 9 FACTOR (100% / LINE 7) 1.608260									

## AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT For the Expense Month of March 2005

### CALCULATION OF CURRENT PERIOD REVENUE REQUIREMENT

LINE NO.	COMPONENTS		
.1	First Component: Associated with Big Sandy Plant ((RB KP(C)) (ROR KP(C)/12)) + OE KP(C) ES FORM 3.10, Line 20		\$2,594,870
2	Second Component: Associated with Rockport Plant [((RB IM(C)) (ROR IM(C)/12)) + OE IM(C) ES FORM 3.20, Line 12		\$3,667
	Third Component: Net Proceeds from Emission Allowances Sales AS		
·	SO2 - EPA Auction Proceeds received during     Expense Month	\$0	
	<ol> <li>SO2 - Net Gain or (Loss) from Allowance Sales, in compliance with the AEP Interim Allowance Agreement, received during Expense Month</li> </ol>	\$0	
	Total Net Proceeds from SO2 Allowances	\$0	
	NOx - EPA Auction Proceeds received during     Expense Month	\$0	
	2) NOx - EPA Auction Proceeds, received during Expense Month	\$0 \$0	
	NOx - Net Gain or Loss from NOx Allowances Sales, received during Expense Month	\$0	
	Total Net Proceeds from NOx Allowances	\$0	
3	Total Net Gain or (Loss) from Emission Allowance Sales		\$0
4	Total Current Period Revenue Requirement, CRR Record on ES FORM 1.00.		\$2,598,537

### AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT COSTS ASSOCIATED WITH BIG SANDY

For the Expense Month of March 2005

LINE			
NO.	COST COMPONENT		
1	Return on Rate Base :		·
1	Utility Plant at Original Cost	\$189,039,418	
2	Less Accumulated Depreciation	(\$18,167,823)	
3	Less Accum. Def. Income Taxes	(\$25,693,214)	
4	Net Utility Plant		\$145,178,381
5	SO2 Emission Allowance Inventory from ES FORM 3.11		\$13,441,855
6	ECR & NOx Emission Allowance Inventory from ES FORM 3.12		\$0
7	Cash Working Capital Allowance from ES FORM 3.13, Line11		\$78,171
8	Total Rate Base		\$158,698,407
9	Weighted Average Cost of Capital - ES FORM 3.15	10.20%	
10	Monthly Weighted Avg. Cost of Capital (7)/12		0.85%
11	Monthly Return of Rate Base (6) * (8)		\$1,348,936
i I	Operating Expenses :		, , , , , ,
	Monthly Depreciation Expense		\$569,796
	Monthly Catalyst Amortization Expense		\$46,029
	Monthly Property Taxes		\$4,744
	Monthly Kentucky Air Emissions Fee		\$24,732
16	Monthly Gavin Scrubber Cost from ES FORM 3.14		\$271,062
17	Monthly 2003 Plan Non-Fuel O&M Expenses from ES FORM 3.13		\$13,908
18	Monthly SO2 Emission Allowance Consumption	5605	\$315,663
19	Monthly ERC & NOx Emission Allowance Consumption		\$0 SO
20	Total Operating Expenses [Line 12 thru Line 18]		\$1,245.934
21	Total Revenue Requirement - Big Sandy		4-1-1-1-1
	Record on ES FORM 3.00, Line 1		\$2,594,870
	· · · · · · · · · · · · · · · · · · ·	<b>等。在第一个时间</b>	, -, ·,5 · ¢

# AMERICAN ELECTRIC POWER - ENVIRONMENTAL SÜRCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT SO2 EMISSIONS ALLOWANCE INVENTORY

### For the Expense Month of March 2005

	(1)	(2)	(3)	(4)	(5)			
	Allowance Activity in	Cumulative	Dollar Value of	Cumulative	Weighted			
	Month	Balance	Activity	Dollar Balance	Average Cost			
		754.000		# 4 005 70 <b>5</b>	22.222			
BEGINNING INVENTORY	·	754,608		\$4,685,726	\$6.209			
Additions -								
EPA Allowances	0	228,535	\$0	\$0	\$0.000			
Gavin Reallocation	0	41,476	\$0	. \$0	\$0.000			
P & E Transfers In	0 .	323,146	<b>\$0</b>	\$4,236,049	\$13.109			
Intercompany Purchases	0	19,770	· \$0	\$2,933,045	\$148.358			
Other (List)	0	408,919	÷, \$0	\$62,576,168	\$153.028			
Withdrawals -			•		• •			
P & E Transfers Out	0	9,038	\$0	\$775,253	\$85.777			
Intercompany Sales	0	50,440	\$0	\$4,810,527	\$95.371			
Off - System Sales	0	279,822	\$0	\$28,997,112	\$103.627			
SO2 Emissions Allowances			**	, , , , , , , , , , , ,	Ψ.50,02,			
Adjustments	0	34,941	\$0	\$0	\$0.000			
SO2 Emissions Allowances	·	- 1,0	Ψ	ΨΟ	Ψ0.000			
Consumed By Kentucky Power	6,219	300,797	\$315,663	\$26,406,241	\$87.788			
ENDING INVENTORY - Record		. 000,701		Ψ20,700,241	φυτίτου			
Balance in Column (4) on		·						
ES FORM 3.10, Line 5		1,101,416		\$13,441,855	£10 004			
	がった。 では、 では、 では、 では、 では、 では、 では、 では、	1,101,410	<b>有性的原理性的原理的原理的原</b>	Ψ10,441,000	\$12.204			
Expense Month Member Load Ratio for AEP/Kentucky Power								
Expense Month Member Load Nation	JI ALI / NEHLUCKY	ruwei			0.07838			

### Columns 1 and 2 -

Record the number of allowances in any transaction (purchase, sale, transfer) which occurred during the Expense Month. Multiple transactions for a given category are to be shown as the total activity for that category during the Expense Month. For each transaction shown in Column 1, update the cumulative balance in Column 2.

### Columns 3 and 4 -

For each transaction reflected in Column 1, record the total dollars of the transaction. Multiple transaction for a given category are to be shown as the total dollar amount for that category during the Expense Month. For each transaction shown in Column 3, update the cumulative dollar balance in Column 4. Include transactions that total zero dollars. Record amounts in whole dollars.

### Column 5 -

Compute the Weighted Average Cost by dividing the Cumulative Dollar Balance (Co. 4) by the corresponding Cumulative Balance (Col. 2). Perform this calculation for the Beginning Inventory, Ending Inventory and all additions and withdrawals made during the Expense Month. The Weighted Average Cost should be carried out to 3 decimal places.

#### 1.1

# AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT ECR and NOx EMISSIONS ALLOWANCE INVENTORY

### For the Expense Month of March 2005

	(1) Allowance Activity in Month	(2) Cumulative Balance	(3) Dollar Value of Activity	(4) Cumulative Dollar Balance	(5) Weighted Average Cost
BEGINNING INVENTORY Additions -		0		\$0	0.000
EPA Allowances	0	13,943	\$0	\$0	
P&E Transfers In .	0	0		\$0	;
Intercompany Purchases	0	0	\$0	\$0	0.000
Other (List) Withdrawals -	0	0	\$0	\$0	0.000
P & E Transfers Out	. 0	. 0	. \$0	\$0	0.000
Intercompany Sales	0	0	\$0	\$0	0.000
Off - System Sales	0	450	\$0	\$0	0.000
ERC Consumed By Kentucky Power	0	930	\$0	\$0	0.000
NOx Consumed By Kentucky Power	0	1,083	\$0	\$0	0.000
ENDING INVENTORY - Record Balance in Column (4) on ES FORM 3.10, Line 5		11,480		\$0	0.000

#### Columns 1 and 2 -

Record the number of allowances in any transaction (purchase, sale, transfer) which occurred during the Expense Month. Multiple transactions for a given category are to be shown as the total activity for that category during the Expense Month. For each transaction shown in Column 1, update the cumulative balance in Column 2.

### Columns 3 and 4 -

For each transaction reflected in Column 1, record the total dollars of the transaction. Multiple transaction for a given category are to be shown as the total dollar amount for that category during the Expense Month. For each transaction shown in Column 3, update the cumulative dollar balance in Column 4. Include transactions that total zero dollars. Record amounts in whole dollars.

#### Column 5 -

Compute the Weighted Average Cost by dividing the Cumulative Dollar Balance (Co. 4) by the corresponding Cumulative Balance (Col. 2). Perform this calculation for the Beginning Inventory, Ending Inventory and all additions and withdrawals made during the Expense Month. The Weighted Average Cost should be carried out to 3 decimal places.

**Note**: For any sale or transfer of ERCs or NOx emission allowances, attach to this report documentation showing the currently available market prices for similar ERC or NOx allowances.

Total Early Reduction Credits (ERC) Consumed: June 2004 July 2004	4	930 120 510
Total Consumed	9	30

Remaining Early Reduction Credits (ERC)

# AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT CASH WORKING CAPITAL ALLOWANCE

# For the Expense Month of March 2005

LINE			
NO.	O&M Expenses		
-		,	
	1997 Plan :	•	
1 1	Monthly Kentucky Air Emissions Fee	\$24,732	
2	Monthly Gavin Scrubber Costs	\$271,062	
3	Monthly SO2 Allowance Consumption	<u>\$315,663</u>	
4	Total 1997 Plan O&M Expenses		\$611,457
	2003 Plan :	1	
5	Monthly Varible Cladding at Big Sandy Unit 1	\$0	,
6	Monthly Urea Consumption at Big Sandy Unit 2	\$0	•
7	Monthly Catalyst Replacement at Big Sandy Unit 2	\$0	
8	Monthly ERC & NOx Allowance Consumption	\$0	
9	Equipment - Associated Operating Expenses	\$877	
10	Equipment - Associated Maintenance Expenses	<u>\$13,031</u>	
11	Total 2003 Plan O&M Expenses		<u>\$13,908</u>
1 1			
12	Total Monthly O&M Expenses	,	<u>\$625,365</u>
13	Cash Working Capital Allowance (Line 10 X 1/8)		\$78,171
<u> </u>	1		

Total Cost at Line 11 is to be recorded on ES FORM 3.10, Line 7.

# AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT GAVIN SCRUBBER COSTS

# For the Expense Month of March 2005

LINE NO.	COST	AMOUNTS
	Operations:	
1	Disposal (5010000)	\$657,862
2	Lime (5020000)	\$2,895,743
3	Lease (5070000)	\$4,176,430
4	Total Operations (1) + (2) + (3)	\$7,730,035
1 .	Maintenance:	V.,,
5	Scrubbers (5120000)	\$592,353
. 6	1/2 of Maintenance (5) * 50%	\$296,177
7.	Fixed O&M (4) + (6)	\$8,026,212
	Impact on Weighted Average Capacity Rate:	
8	Ohio Power Steam Capacity (kw)	8,472,000
9	Gavin Scrubber Rate (\$/kw) (7) / (8)	\$0.95
10	Ohio Power Surplus Weighing	78.00%
11	Portion of Weighted Average Capacity Rate	
	Attributed to Gavin Scrubber (\$/kw) (9) * (10)	\$0.74
į.	Gavin Costs to Kentucky Power:	
12	Gavin Scrubber Portion (\$/kw) (11)	\$0.74
13	Kentucky Power Capacity Deficit (kw)	<u>366,300</u>
14	Scrubber Cost to Kentucky Power (12) * (13)	\$271,062
<u> </u>		_

Total Cost at Line 14 is to be recorded on ES FORM 3.10, Line 16.

### AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT BIG SANDY PLANT COST OF CAPITAL

### For the Expense Month of March 2005

LINE			Cap.	Cost	 WACC			WACC
NO.	Component	Balances	Structure	Rates	 (Net of Tax)	GRCF		(PRE-TAX)
		As of 12/31/2002						
1 2 3 4 5	L/T DEBT S/T DEBT ACCTS REC FINANCING C EQUITY	\$466,631,680 \$23,386,094 \$27,214,021 \$298,018,017 \$815,249,812	57.24% 2.87% 3.34% 36.56% 100.00%	5.752% 2.062% 2.804% 11.000%	3.29% 0.06% 0.09% 4.02% 7.46%	1.6801	2/	3.29% 0.06% 0.09% 6.76% 10.20%
1/ 2/ 1 2 3 4 5 6 7 8 9 10 11	WACC = Weighted Average Cost of Capital Rate of Return on Common Equity per Case No. 2002 - 00169  Gross Revenue Conversion Factor (GRCF) Calculation:  OPERATING REVENUE UNCOLLECTIBLE INCOME BEFORE STATE TAXES LESS: STATE INCOME TAX (LINE 3 X .0825) INCOME BEFORE FED INC TAX LESS: FEDERAL INC TAX (LINE 6 X .35) OPERATING INC PERCENTAGE GROSS REVENUE CONVERSION FACTOR (100%/LINE 9)				100.00 0.20 99.80 8.23 91.57 32.05 59.52		·	

The WACC (PRE - TAX) value on Line 5 is to be recorded on ES FORM 3.10, Line 9.

### AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT COSTS ASSOCIATED WITH ROCKPORT

For the Expense Month of March 2005

LINE NO.	COST COMPONENT		
•	Return on Rate Base :		
1 1	Utility Plant at Oringinal Cost	\$1,380,823	
2	Less Accumulated Depreciation	(\$475,862)	
3	Less Accum. Def. Income Taxes	(\$108,637)	
4	Total Rate Base		\$796,324
5	Weighted Average Cost of Capital - ES FORM 3.21	11.9015%	
6	Monthly Weighted Avg. Cost of Capital (LINE 5/12)		0.9918%
7	Monthly Return of Rate Base (4 * 6)		\$7,898
	Operating Expenses:		
8	Monthly Depreciation Expense		\$4,051
9	Monthly Indiana Air Emissions Fee		<u>\$12,500</u>
10	Total Operating Expenses (8 + 9)		\$16,551
] .			
	· · · · · · · · · · · · · · · · · · ·		
] 11	Total Revenue Requirement, Cost Associated with		
	Rockport (7) + (10)		\$24,449
			, .,
12	Kentucky Power Portion of Rockport Total		
	Revenue Requirement. Record on ES FORM 3.00, Line 2		
	(11 * 15%)		\$3,667
			, , , , , ,

With each monthly filing, attach a schedule similar to Exhibit EKW-2, page 11 of 11 (Wagner Direct Testimony in Case No. 96-489), showing the calculation of the Weighted Average Cost of Capital. These calculations should reflect the provisions of the Rockport Unit Power Agreement, and be as of the Current Expense Month.

### AMERICAN ELECTRIC POWER - ENVIRONMENTAL SURGHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT ROCKPORT UNIT POWER AGREEMENT COST OF CAPITAL

### For the Expense Month of March 2005

LINE NO.	Component	Balances	Cap. Structures	Cost Rates		WACC (NET OF TAX)	GRCF		WACC (PRE - TAX)
		As of 03/31/2005							
1 2 3 4 5	L/T DEBT S/T DEBT S/T INV DEBT C EQUITY TOTAL	44,821,089 10,439,184 0 49,663,972 104,924,245	42.7176% 9.9493% 0.0000% 47.3331% 	4.6607% 2.3416% 4.2226% 12.1600%		1.9910% 0.2330% 0.0000% 5.7557%  7.9797%	1.681379	2/	1.9910% 0.2330% 0.0000% 9.6775% 
WACC = Weighted Average Cost of Capital  1/ Cost Rates per the Provisions of the Rockport Unit Power Agreement  2/ Gross Revenue Conversion Factor (GRCF) Calculation:									
1 2 3 4 5 6 7 8	3 (LINE 1 X .085) 4 INCOME BEFORE FED INC TAX 5 LESS: FEDERAL INCOME TAX 6 (LINE 4 X .35) 7 OPERATING INCOME PERCENTAGE 8 GROSS REVENUE CONVERSION				100.00 <u>8.500</u> 91.500 <u>32.025</u> 59.475 1.681379				

The WACC (PRE - TAX) value on Line 6 is to be recorded on ES FORM 3.20, Line 5.

# AMERICAN ELECTRIC POWER ENVIRONMENTAL SURCHARGE REPORT CURRENT PERIOD REVENUE REQUIREMENT MONTHLY REVENUES, JURISDICTIONAL ALLOCATION FACTOR, and OVER/(UNDER) RECOVERY ADJUSTMENT

For the Expense Month of March 2005

### SCHEDULE OF MONTHLY REVENUES

Line No.	Description	Monthly Revenues	Percentage of Total Revenues
1 2 3 4	Kentucky Retail Revenues FERC Wholesale Revenues Associated Utilities Revenues Non-Assoc. Utilities Revenues	\$29,204,488 \$317,712 \$5,158,575 \$12,639,912	61.7% 0.7% 10.9% 26.7%
5	Total Revenues for Surcharges Purposes  Non-Physical Revenues for Month	\$47,320,687 (\$3,798,708)	100.0%
7	Total Revenues for Month	\$43,521,979	

The Kentucky Retail Monthly Revenues and Percentage of Total Revenues (Line 1) are to be recorded on ES FORM 1.00, Lines 9 and 4. The Percentage of Kentucky Retail Revenues to the Total Revenues for the Expense Month will be the Kentucky Retail Jurisdictional Allocation Factor.

# OVER/(UNDER) RECOVERY ADJUSTMENT

Line No.	Description	Amounts
1	Kentucky Retail Surcharge Factor for January 2005	2.7007%
2	Kentucky Retail Revenues for Current Expense	\$29,696,893
3	Surcharge Collected (1) * (2)	\$802,024
4	Surcharge Amount To Be Collected	\$986,648
6	Over/(Under) Recovery (3) - (4) - (5)	(\$184,624)

The Over/(Under) Recovery amount is to be recorded on ES FORM 1.00, LINE 6.

NOTE: The sign on LINE 5 of ES FORM 3.30 will be changed on LINE 6 of ES FORM 1.00 in order to properly adjust the collection of the current month's expense.