LARGE FILING SEPARATOR SHEET

.

CASE NUMBER 11-351-EL-AIR 11-352-EL-AIR 11-353-EL-ATA 11-354-EL-ATA 11-356-EL-AAM 11-358-EL-AAM

FILE DATE 2/28/2011

SECTION: 16 OF 25

NUMBER OF PAGES: 240

DESCRIPTION OF DOCUMENT:

APPLICATION & SCHEDULES

SCHEDULES E-3.1 and E-3.2 TABLE OF CONTENTS

CLASS COST-OF-SERVICE STUDY

OHIO POWER COMPANY

Case No. 11-351-EL-AIR

Test Year: Twelve Months Ended May 31, 2011

Date Certain: August 31, 2010

Schedules

E-3.1	Customer Charge / Minimum Bill Rationale (references Sched. E-3.2)
E-3.2	Class Cost-of-Service Study (links also applicable to Sched. E-3.1)

Schedule E-3.1 Page 1 of 6 Witness Responsible: Daniel E. High

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >Original_Updated_Revised Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers

Working Capital Uncollectibles Materials & Supplies - Dist Prepayments - Other (Insurance, etc.) Other Current Assets Total Working Capital	Amortiz. Of Plant Acquisition Adj Acct 302 Net Electric Plant In Service	Accum. Depreciation and Amortiz. Distribution General & Intangible Total	Electric Plant Acquisition Adj Account 302 Electric Utility Plant	Total Electric Plant in Service	Total General & Intangible Plant	Intangible Plant	General Plant	Total Plant in Service	Rate Base Plant in Service Distribution 360 Land and Land Rights 361 Structures and Improvements 362 Station Equipment 363 Storage Battery Equipment 364 Potes, Towers & Fixtures 365 Overthead Lines 366 Underground Conduit 367 Underground Lines 368 Transformers 370 Meters 371 Install on Cust. Premises 372 Leased Prop. On Cust. Premises 373 Street Lighting Total	"abe
RSALE RB_GUP_EPIS_D RB_GUP LABOR_M	LABOR_M	RB_GUP_EPIS_D RB_GUP_EPIS_G				LABOR_M	LABOR_M		DIST_CPD DIST_CPD DIST_CPD DIST_CPD DIST_CPD DIST_CPOLES DIST_UGLINES DIST_UGLINES DIST_UGLINES DIST_UGLINES DIST_SERV DIST_SERV DIST_COL DIST_COL DIST_COL DIST_COL DIST_SL	Allocation Factor
TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL TOTAL	TOTAL FOTAL TOTAL	TOTAL TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL		Function
1,040,534 293,729 1,334,263	(160,836) 186,443,240	(81,821,472) (21,399,689) (103,021,161)	192,123 289,625,237	289,433,114	40,111,930	7,482,064	32,629,866	249,321,184	- - - - - - - - - - - - - - - - - - -	Total Retail
610, 888 178,533 789,421	(118,379) 112,250,508	(47,919,201) (15,750,562) (63,669,763)	141,406 176,038,649	175,897,243	29,523,113	5,506,936	24,016,177	146,374,130	- - - - - - - - - - - - - - - - - - -	R
- 74,665 20,990 - 95,855	(11,201) 13,338,804	(5,856,826) (1,490,335) (7,347,161)	13,380 20,697,167	20,683,787	2,793,509	521,072	2,272,437	17,890,278	- - - - - - - - - - - - - - - - - - -	GS-1
96,299 26,068 - 122,367	(10,492) 16,743,024	(7,553,895) (1,396,050) (8,949,945)	12,534 25,703,461	25,690,928	2,616,779	488,107	2,128,672	23,074,148	- - - - - - - - - - - - - - - - - - -	SEC
10,408 2,739 13,147	(827) 1,773,734	(816,403) (110,004) (926,407)	988 2,700,967	2,699,979	206,194	38,461	167,732	2,493,786	2,493,786 2,493,786	PRI
18,585 5,568 - 24,153	(4,138) 3,477,462	(1,457,832) (550,528) (2,008,361)	4,943 5,489,961	5,485,018	1,031,919	192,484	839,436	4,453,099	4 4 4 4 45 5 53,099 90	SUB/TRAN
140,338 36,980 177,318	(11,322) 23,937,267	(11,008,392) (1,506,366) (12,514,758)	13,524 36,463,347	36,449,823	2,823,558	526,677	2,296,881	33,626,265	- - - - - - - - - - - - - - - - - - -	þ
89.352 22,851 112,203	(4,478) 14,922,441	(7,008,924) (595,843) (7,604,766)	5,349 22,531,685	22,526,336	1,116,858	208,327	908,531	21,409,478	- - - - - - - - - - - - - - - - - - -	ង

Rate Base Offsets

Distribution Maintenance 590 Supervision & Engineering 591 Structures 592 Station Equipment 593 Overhead Lines 594 Underground Lines	Operating Expense O&M Expense Distribution Operation 580 Supervision & Engineering 581 Load Dispatching 582 Station Equipment 583 Overhead Lines 584 Undergroung Lines 585 Street Lighting 586 Meters 587 Customer Installations 588 Miscellaneous Distribution 589 Rents Total	Total Operating Revenues	Other Operating Revenues Forfeited Discounts Miscellaneous Service Revenue Rent Assoc Co Rent Non-Assoc Co Rent ABD Other Electric Revenue-NonAft Other Electric Revenue - ABD Other Electric Revenue - ABD Other Electric Revenue - ABD Other Electric Revenue - BD Other Electric R	<u>Operating Revenues</u> Firm Sales of Electricity	Total Rate Base	Customer Deposits Customer Advances Prepayments - Pension Deferred Taxes (190.1) Deferred Taxes (281.1) Deferred Taxes (281.1) Deferred Taxes (283.1) Deferred Taxes - State (283.1) Deferred Investment Tax Credits (255) Total	Label	Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >Original_Updated_Revised Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers
TOTMXEXP DIST_CPD DIST_CPD TOTOHLINES TOTUGLINES	TOTOXEXP DIST_CPD DIST_CPD DIST_OHLINES DIST_VGLINES DIST_SL DIST_METERS DIST_PCUST RB_GUP_EPIS_D RB_GUP_EPIS_D		FORF_DISC MISC_SERV_REV RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D	RSALE		CUST_DEP RB_GUP_EPIS_D LABOR_M RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D RB_GUP_EPIS_D	Allocation Factor	all Schedule E3.2 Work
TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL	TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL	Function	Č
32,066	696,102 - - 130,576 1,355,619 104,068 3,198,173 477,601 5,962,139	98,391,925	207,781 437,206 603,247 1,110,985 10,347 363,012 239,347 128,162 3,100,108	95,291,817	154,932,039	(26,468,865) 20,670,064 6,883,525 (23,622,075) (10,057,800) (177,000) (32,845,463)	Total Retail	TWELVE MONTHS ENDING MAY 31, 20
3. 503	397,903 - - - 770,188 81,949 1,877,617 280,385 3,408,053	56,625,167	11,692 396,945 354,161 652,249 6,075 213,121 140,516 75,254 1,850,015	54,775,152	86,340,599	(16,034,032) 15,213,545 4,041,253 (13,868,289) (5,904,840) (101,750) (101,750) (16,699,329)	RS	IG MAY 31, 2011
- , , 56 0	52,314 - - 123,138 229,489 34,271 449,073	5,965,090	145,969 28,675 43,267 79,720 742 26,048 17,175 9,198 350,814	5,614,276	12,125,422	(807,800) 1,439,522 493,934 (1,885,024) (721,707) (12,436) (1,209,037)	68 -1	
1,492	88,949 328,025 328,025 44,201 44,201 -	5,344,109	54,849 4,214 55,829 102,819 958 33,596 22,151 11,963 286,279	5,057,830	10,728,681	(4,982,051) 1,348,452 637,056 (2,186,173) (930,828) (16,040) (7,126) (6,136,710)	SEC	
· · · · 21 9	11,244 - - 48,199 48,199 92 31,989 92 31,989 92	487,112	2,403 16 8,034 11,112 3,631 2,394 1,282 26,974	460,138	703,248	(919,359) 106,254 68,851 (236,275) (100,601) (1,734) (1,083,634)	PR	
391	20,056 - - 86,069 57,122 57,122 8,530	21,132,435	(7,165) 20 10,775 19,843 185 6,484 4,275 2,289 36,706	21,095,729	(144,641)	(3,694,937) 531,758 122,946 - (421,911) (179,641) (1,375) (3,646,256)	SUB/TRAN	
21,879 - -	66,634 - - 8,335 - 570,725	5,104,557	31 5,926 81,361 149,840 48,960 32,281 17,288 337,082	4,767,475	21,891,088	(30,687) 1,455,007 928,390 (3,185,838) (1,356,508) (1,356,508) (23,375) (23,375) (22,223,498)	9 	Schedule E-3.1 Page 2 of 6 Witness Responsible Daniel E. High
4,021	59,002 - - 130,576 - 136 274,631 41,012 505,357	3,733,458	1,412 51,801 95,402 31,172 20,553 11,007 212,237	3,521,221	13,287,645	- 575,527 591,096 (2,028,453) (863,674) (14,863) (14,863) (1,748,999)	S	Schedule E-3.1 Page 2 of 6 ss Responsible: Daniel E. High

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OHIO POWER COMPANY CLASS COST-OF-SERVICE STUDY - CUSTOMER CHARGE TWELVE MONTHS ENDING MAY 31, 2011

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Depreciation & Amortization Expense Distribution General & Intangible Total Deprectation & Amort Expense	Total O&M Expense	Administrative & General Expense 920-Salaries 921-Office Supplies 922-Admin Exp Transferred 923.0001 Outside Svos Empl - Non-Assoc. 923.0003 AEPSC Billed to Client Co. 924-Property Insurance 926.0000 OPEB - Employee Benefits 926.0000 OPEB - Employee Benefits 926.0000 Pension Ptan 927-Franchise Requirements 9280000 Reg. Commission Exp. 930.1 Gen. Advertising Exp. 930.2000 Misc. General Expenses 930.2000 Misc. General Expenses 930.2007 ABD Exp. 931 Rent 935 A&G - Maintenance Total	Customer Accounts 901 Supervision & Engineering 902 Meter Reading 903 Customer Records & Collection Exp. 904 Uncollectible Accounts Factoring Expense 431-Interest on Customer Deposits 905 Miscellaneous Customer Accounts Total Customer Service & Inf & Sales Exp 907 Supervision 908 Customer Assistance 909 Information & Instruction 910 Miscellaneous Customer Service 911-916 Misc Selling Expense Total	595 Line Transformers 598 Street Lighting 597 Meters 598 Miscellaneous Distribution Total	CL ^a Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >OriginalUpdatedRevised Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers
RB_GUP_EPIS_D RB_GUP_EPIS_G		LABOR M LABOR M	TOTOX224 CUST_902 CUST_903 UNCOLFAC RSALE CUST_DEP TOTOX234 EXP_OM_CUSTACCT EXP_OM_CUSTACCT EXP_OM_CUSTACCT EXP_OM_CUSTACCT EXP_OM_CUSTACCT	DIST_TRANSF DIST_SL DIST_METERS DIST_CL	Il Schedule E3.2 Work Pa Allocation <u>Factor</u>
TOTAL TOTAL TOTAL	TOTAL	TOTAL COLOR	TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL TOTAL TOTAL TOTAL	CLASS COST-C TWEL apers
9,284,156 1,890,244 11,184,400	51,372,743	2,459,015 246,051 (973,026) 375,253 2,490,673 40,027 592,185 2,114,752 648,112 28,347 278,555 629,754 771,052 337,341 1,258,111	1,236,517 4,971,654 19,708,498 6,342 3,007,437 783,231 73,207 1,287,487 1,287,487 1,287,487 1,276 9,669,128	291,693 447,298 1,587,332 2,3 58 ,389	OHIO POWER COMPANY CLASS COST-OF-SERVICE STUDY - CUSTOMER CH TWELVE MONTHS ENDING MAY 31, 2011 Iers <u>Function</u> Total Retail RS
5,458,512 1,391,254 6,847,766	38,600,018	1,809,880 (716,169) 276,193 1,825,820 435,859 1,556,498 477,022 16,294 205,021 441,714 248,289 925,992 7,770,525	1,080,747 4,119,497 17,463,402 3,723 1,728,719 480,515 63,985 24,930,589 898,822 1,077,221 247,651 1,486 8,038 2,233,218	- 254,130 257,633	MPANY - CUSTOMER C 9 MAY 31, 2011 RS
666,911 131,642 798,553	3,607,390	171,253 (67,7,136 (67,7,136 (67,7,136 172,761 2,872 2,872 1,9,399 43,856 43,856 43,856 43,856 23,493 87,618	94,360 1,437,934 177,188 24,209 5,587 2,185,199 94,420 78,783 795,744	40,630 41,190	HARGE GS-1
860,154 123,314 983,468	3,245,782	160,419 16,052 (63,477) 24,480 161,831 37,980 42,781 42,281 42,281 42,505 42,505 41,083 41,083 41,083 41,083 41,083 41,083 41,083 41,083 41,083 41,083 41,083 41,083 41,055 42,007 82,075	58,685 394,262 776,771 159,627 149,827 1,542,710 55,619 66,859 15,325 92 138,192	- 108,234 - 109,726	SEC
92,963 9,717 102,680	241,665	12,640 1,265 (5,002) 1,929 12,752 1,2752 3,044 10,871 3,237 1,432 3,237 1,734 6,467 54,949	1,242 9,820 14,911 14,911 14,522 27,552 2,458 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,947 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,946 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,947 2,946 2,	- - 15,904 - 16,123	
166,002 48,628 214,630	1,330,730	63,261 6,330 (25,032) 9,654 63,818 15,235 54,404 16,573 16,573 16,201 1,269 8,578 32,366 32,366	309 2,609 3,442 113 665,787 110,732 183,010 28,230 33,833 7,776 47 20,140	- 28,399 - 28,791	SUBTRAN
1,253,515 133,058 1,386,573	3,097,630	173,095 17,320 (68,483) 26,415 174,619 41,685 148,862 45,622 45,622 1,418 19,608 44,330 9,583 23,746 88,561 751,789	- 43 - 5,483 150,483 9,260 5,480 6,580 1,513 1,513 1,513 1,513 1,513	- - 1,587,332 1,609,2111	Schedule E-3.1 Page 3 of 6 Witness Responsible: Daniel E. High
798,099 52.631 850,730	1,249,528	68,468 6,851 (27,092) 10,448 69,071 13,437 18,048 58,882 18,048 58,882 18,047 7,756 6,101 9,393 35,030 301,461	1,131 22,038 111,131 4,864 5,829 1,340 1,340 1,340 1,340 1,340 1,340 1,340	291,693 - - 295,714	Schedule E-3.1 Page 3 of 6 Daniel E. High SL

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >Original_Updated_Revised Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers

West Virginia Tax	West Virginia Taxable Income Tax Factor (Tax Rate x Annonticument)	Ohio Tax	Chio Municipal Taxable Income Tay Fartra /Tax Bata x Apportonment)	Michigan Tax	Michigan Taxable income Tay Eartor (Tay Pala & Amortionment)	Allinois Tax	Illinois Taxable Income Tay Factor (Tay Bate y Apportionment)	West Virginia - Plant Related	Michigan - Plant Related Ohio - Plant Related	State Tax Adjustments Illinois - Plant Related	Total Schedule M Income Adjustments	Distribution Plant Related	Schedule M Income Adjustments Labor Related Rate Base Related	Net Operating Income Before Income Tax	Interest Expense Factor Interest Expense Synchronized	Gross Operating Income	Total Operating Expense Before Income Tax	Franchise Tax Franchise Tax Miscellaneous Taxes Total Taxes Other Than Income	Commercial Activity Taxes Property Taxes	Taxes Other Than (ncome Payroll Taxes	Label	Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >OriginalUpdatedRevised Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers
								RB_GUP_EPIS_D	RB_GUP_EPIS_D	RB_GUP_EPIS_D		RB_GUP_EPIS_D	LABOR_M RATEBASE					NP NP		LABOR_M	Allocation <u>Factor</u>	all Schedule E3.2 Work
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL TOTAL	TOTAL	TOTAL	Eunction	
148,546	11,262,878	42,049	11,940,892	4,167	13,602,229	7,694	13,195,633	,	2,339,352 678,014	1,932,755	(8,957,148)	(5,584,448)	(3,357,600) (50,806)	20,220,026	3,752,764	23,972,790	74,419,136	38,330 (1,183) 11,861,992	1,314,864 8,960,289	732,811	Total Retail	TWELVE MONTHS ENDING MAY 31, 2011
(54,040)	(4,097,338)	(13,027)	(3,699,262)	(834)	(2,723,926)	(1,727)	(2,962,635)		1,373,411 398,056	1,134,702	(5,760,462)	(3,278,577) 20 983	(2,471,255) (31,592)	1,663,124	2,333,562	3,996,666	52,628,481	22,033 (712) 7,180,696	755,803 5,394,655 460 556	539,362	RS	NG MAY 31, 2011
(2,511)	(190,373)	(499)	(141,722)	(7)	(22,511)	(30)	(51,687)		167,862 48,652	138,687	(635,964)	(400,717) 2.582	(233,833) (3,976)	445,591	293,702	739,293	5,225,797	2,258 (85) 819,855	77,467 641,051 49 128	51,035	Gŷ-1	
(11,193)	(848,630)	(2,767)	(785,881)	(194)	(632,128)	(391)	(669,757)	'n	216,502 62,749	178,872	(736,082)	(516,829) 3 305	(219,040) (3.518)	(112,548)	259,870	147,322	5,196,787	2,034 (106) 967,536	69,789 604,654	47,808	SEC	
(616)	(48,735)	(141)	(39,954)	(7)	(23,337)	(16)	(27,403)		23,399 6,782	19,332	(72,990)	(55,857) 357	(17,260) (231)	26,255	17,034	43,289	443,823	99,478	6,349 85,244	3,767	PRI	
247,146	18,738,777	66,030	18,750,887	5,753	18,780,559	10,946	18,773,297	•	41,783 12,110	34,521	(185,436)	(9 9 ,743) 638	(86,378) 47	18,924,212	(3,504)	18,920,709	2,211,726	666,306	291,085 167,124	18,852	SUB/TRAN	
(29,177)	(2,212,188)	(7,468)	(2,120,744)	(581)	(1,896,677)	(1,138)	(1,951,515)		315,511 91,445	260,673	(991,893) ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(753,182) 4.816	(236,348) (7,179)	(1,220,286)	530,246	(690,050)	5,794,607	1,918 1,918 1,310,404	65,783 1,150,403	51,584	ç	Schedule E-3.1 Page 4 of 8 Witness Responsible: Daniel E. High
(1,063)	(80,631)	(79)	(22,409)	37	120,252	. 50	85,337		200,883 58,222	165,968	(574,321)	(479,543) 3 066	(93,487) (4,357)	493,690	321,853	815,544	2,917,914	1,416 (95) 817,657	48,587 717,159 20,125	20,404	ង	Schedule E-3.1 Page 4 of 6 Daniel E. High

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >Original_Updated_Revised Work Paper Reference Nois): WP A-1e-b and all Schedule E3.2 Wr

Schedule E-3.1 Page 5 of 6 Witness Responsible:

Total Proposed Sales Revenue	Proposed Sales Revenue Increase	Lass: Miscelianeous Service Charge Increases Less: Pole Attachment Increases	Total Revenue Increase	Gross Revenue Conversion Factor	Income Increase	Proposed Rate of Return	Calculation of Proposed Revenues Proposed Operating Income (NOI + Inc. Defic.)	Distribution Customer Accounts Customer Service Total	O&M Labor	Current Rate of Return	Net Operating Income	Total Expenses	Total Income Tax	Total Federal Income Tax	Deferred ITC investment Tax Credit (411.4 & 411.5)	Deferred FIT DFIT (410.1 & 411.1)	Gross Current FIT	Federal Taxable Income Tax Eactor (Tax Data x Apportionment)	Total State Income Tax	Deferred State Income Tax (410.1 & 411.1)	Label	Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers
		MISC_SERV_REV					RATEBASE	EXP_OM_DIST EXP_OM_CUSTACCT EXP_OM_CUSTSERV							RB_GUP_EPIS_D	RB_GUP_EPIS_D				RB_GUP_EPIS_D	Allocation <u>Factor</u>	and all Schedule E3.2 Work F
TOTAL	TOTAL	TOTAL TOTAL	TOTAL		TOTAL		TOTAL	TOTAL TOTAL TOTAL			TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	Function	apers
88,208,063	(7,083,755)	68,531 196,630	(6,818,594)		(4,325,191)	8.43%	13,063,936	3,867,413 9,191,787 2,159,217 15,218,417		4.72%	17,389,127	81,002,798	6,583,663	6,362,153	·	2,491,005	3,871,148	11,060,422	221,510	19,054	Total Retall	
61,094,341	8,319,189	6 2,220 115,440	6,496,848		4,121,100	8.43%	8,123,481	1,703,825 7,690,625 1,806,583 11,201,033		4.15%	4,002,380	52,622,787	(5,694)	52,748		1,462,446	(1,409,698)	(4,027,709)	(58,442)	11,187	RS	
6,217,798	603,521	4,495 14,109	622,125		394,628	8.43%	1,022,421	227,411 674,0 0 3 158,349 1,059,854	·	5.18%	627,792	5,337,298	111,501	113,180		178,744	(65,564)	(187,326)	(1,680)	1,367	GS-1	
6,115,948	1,058,119	660 18,198	1,076,977		683,151	8.43%	904,647	405,114 475,897 111,792 992,803		2.16%	221,496	5,122,813	(74,173)	(61,393)	•	230,537	(291,930)	(834,086)	(12,781)	1,763	SEC	
496,400	36,262	2 1,967	38,231		24,251	8.43%	59,298	52,255 21,034 4,941 78,230		4,14%	35,047	452,065	8,242	8,831	,	24,916	(16,084)	(45,955)	(590)	191	PR)	
1,992,981	(19,102,748)	3 3,512	(19,099,233)		(12,115,083)	8.43%	(12,196)	93,225 241,544 56,740 391,509		-8367.52%	12,102,888	9,029,549	6,817,822	6,487,607	'n	44,492	6,443,116	18,408,902	330,215	340	Subitran	
8,011,622	3,244,147	929 28,520	3,271,596		2,075,248	8.43%	1,845,866	1,013,243 46,977 11.035 1,071,254		-1.05%	(229,383)	5,333,940	(460,667)	(424,874)	•	335,965	(760,839)	(2,173,825)	(35,794)	2,570	Q	Witness Responsible: Daniel E. High
4,278,974	757,752	221 16,885	774,859		491,511	8.43%	1,120,420	372,341 41,618 9,776 423,734		4,73%	628,909	3,104,549	186,634	186,054		213,905	(27,851)	(79,575)	580	1,636	ស	s Responsible: Daniel E. High

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >Original_Updated_Revised Work Paper Reference No(s): WP A-1e-p and all Schedule E3.2 Work Papers

Full Cost Customer Charge **Customer Bills** <u>abel</u> Allocation Factor Function **Total Retail** 7,212,183 RS 8.47 8<u>-</u> 786,893 7.90 SEC 423,484 14.44 PR 8,142 60.97 SUB/TRAN 1,040.18 1,916 Schedule E-3.1 Page 6 of 6 Witness Responsible: Daniel E. High ۶ ဖူ

Date Prepared: 2/28/2011 Source: WP A-1e-p and all Schedule E-3.2 Work Papers

	i Acct 302		vocaunt 302						nises	ನ
	(532,386) 1,137,815,105	(523,591,196) (70,835,311) (594,426,507)	635,949 1,732,773,998	1,732,138,049	132,774,878	24,766,452	108,008,426	1,599,363,171	281,574,210 52,235,350 92,715,092 319,156,554 135,157,954 70,138,185 22,791,009 22,791,009 1,104 21,232,932 1,599,363,171	21,424,375 8,994,067 243,177,626 5,062,199 325,702,514
	LABOR_M	RB_GUP_EPIS_D RB_GUP_EPIS_G	LABOR_M			LABOR_M	LABOR_M		DIST_OHLINES DIST_UGLINES DIST_UGLINES DIST_TRANSF DIST_SERV DIST_OL DIST_OL DIST_OL DIST_OL DIST_SL	DIST_CPD DIST_CPD DIST_CPD DIST_CPD DIST_CPD DIST_CPD DIST_POLES
TOTAI	TOTAL TOTAL	TOTAL TOTAL TOTAL	TOTAL TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL
	(532,386) 1,137,815,105 -	(523,591,196) (70,835,311) (594,426,507)	635,949 1,732,773,998 -	1,732,138,049	132,774,878	24,766,452	108,008,426	1,599,363,171	281,574,210 52,235,350 92,715,092 319,156,554 135,157,954 70,138,185 22,791,009 22,791,009 1,104 21,232,932 1,599,363,171	21,424,375 8,994,067 243,177,626 5,062,199 325,702,514
,	(325,259) 649,369,486 -	(297,607,172) (43,276,474) (340,883,646)	388,530 990,578,390 - -	990,189, 860	- 81,118,138	- 15,130,938	65,987,200	909,071,722	149,413,360 28,904,196 51,303,479 204,764,522 106,525,465 39,848,665 - - - - - - - - - - - -	10,892,143 4,572,580 123,631,405 2,573,620 186,642,287
3	(19,878) 35,745,243 -	- (16,270,155) (2,644,815) (18,914,969)	23,745 54,680,090 -	- 54,656,345	- 4,957,485	924,718	4,032,767	49,698,861	6,285,309 1,208,845 2,145,638 8,403,131 11,519,258 6,371,020 - - 49,698,861	461,029 193,542 5,232,913 108,933 7,769,243
ı	(124,706) 309,391,076 -	(143,511,014) (16,592,409) (160,103,422)	148,964 469,619,204 - -	469,470,240	- 31,101,086	5,801,275	- 25,299,811	438,369,154	88,423,290 16,181,739 28,721,764 93,603,933 6,102,533 16,971,615 - - - 438,369,154	6,817,024 2,861,823 77,376,711 1,610,742 99,697,980
,	(41,318) 97,297,600 -	(45,012,352) (5,497,444) (50,509,795)	49,355 147,848,713 - -	- 147,799,358	- 10,304,499	1,922,095	- 8,382,405	137,494,859	36,739,384 5,761,666 10,226,664 10,184,213 - 2,493,786 - - 137,494,859	3,218,677 1,351,218 36,533,627 760,516 30,225,110

Allocation <u>Factor</u>

Function Total Retail

<u>Constant</u>

GS-1

RS

Demand Metered PRI 3

SEC

<u>Constant</u>	Allocation Factor	<u>Function</u>	Total Retail	RS	G <u>S-1</u>	SEC	PRI PRI
(26,468,865) -	CUST_DEP	TOTAL	(26,468,865) -	(16,034,032) -	(807,800) -	(4,982,051) -	- -
- 68,420,174 44,156,926	RB_GUP_EPIS_D	TOTAL	68,420,174 44,156,926	41,800,958 25,098,623	- 2,554,640 1,372,139	16,026,689 12,102,964	- 5,310,008 3,796,105
_	RB_GUP_EPIS_D	TOTAL	- (151,532,561)	- (86.130.510)	- (4,708,746)	- (41,533,531)	- (13,027,028)
	RB_GUP_EPIS_D	TOTAL	(64,519,490)	(38,672,624)	(2,004,889)	(17,684,135)	(5,546,644)
	RB_GUP_EPIS_D	TOTAL	(1,111,778)	(631,930)	(34,548)	(304,727)	(95,578)
(493,942) (131,549,536)	עם_טטר_ברוט_ט	TOTAL	(131,549,536) (131,549,536)	(200, 103) (72,850,270)	(10,349) (3,644,553)	(130,30 4) (36,510,176)	(10,524,959) (10,524,959)
1,014,697,784		TOTAL	1,014,697,784 -	581,317,810	32,363,561	275,186,692 -	- 87,496,415 -
324,382,905	RSALE	TOTAL	- 324,382,905 -	- 187,678,411 -	- 11,389,179 -	- 69,786,358 -	- 25,391,005 -
1,162,931	FORF_DISC	TOTAL	- 1,162,931	40,060	- 296,114	- 722,999	- 110,888
2,622,214	MISC_SERV_REV		2,622,214	2,465,267	120 240	68,768	332 507
	RB_GUP_EPIS_D	TOTAL	7,126,827	4,050,860	221,460	1,953,391	612,683
	RB_GUP_EPIS_D	TOTAL	66,376	37,728	2,063	18,193	5,706
2,328,677	RB GUP EPIS D	TOTAL	2,328,677 1.535.381	1,323,611 872,705	72,362 47.711	638,267 420,832	200,193
822,270 19,534,429	EPIS	TOTAL TOTAL	822,270 19,534,429	467,375 11,457,158	25,551 865,170	225,376 5,108,485	70,689 1,465,337
343,917,334		TOTAL	- 343,917,334	- 199,135,569	- 12,254,349	- 74,894,843	- 26,856,342
					1	I I.	
			ľ	ŀ	·		
3,784,077	TOTOXEXP	TOTAL	- 3,784,077	- 2,123,813	- 124,398	- 1,042,343	- 336,578
(28,918)	DIST_CPD	TOTAL	(28,918)	(14,702)	(622)	(9,201)	050 077 (4,344)
1 083 870			1 083 870	575 145	24 104	240,JSD 340 373	200,221 141 472
678,346	DIST_UGLINES	TOTAL	678,34 6	375,360	24,194 15,698	340,373 210,142	141,423 74,823
130,576	DIST_SL	TOTAL	130,576	ı	•		
1,355,619	DIST_METERS	TOTAL	1,355,619	770,188	123,138	328,025	48,199
	DIST_PCUST	TOTAL	20 515 868	81,949 11 661 137	8,862 637 613	4,695	1 762 719
3,063,751	RB GUP EPIS D	TOTAL	3,063,751	1,741,424	95,203	3,023,130 839,743	263,386
	 { 	TOTA	22 110 751	10 100 525	1.065.472	8,927,704	2,882,802

Dist/Meter }s ; (255)

s	Ion-Assoc. t Co. nefits) ;rvice	tion Exp. sits	
2,08 1,11 4,16 35,38	8,13 (3,22 1,24 7,00 2,14	3,33 4,00	1,23 10,23 70 70	<u>Constant</u> 1,119 291 447 1,587 45,591
96,496 RSALE - LABOR 2,084,556 LABOR 455,789 RB_GU 1,116,635 LABOR 4,164,484 LABOR 35,389,026			1,238,237 TOTOX 4,971,654 CUST_ 40,680 UNCOL 10,237,616 RSALE 793,231 CUST_ 73,309 TOTOX	,067 ,067
RSALE LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M	LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M LABOR_M	EXP_OM_CUSTACCT EXP_OM_CUSTACCT EXP_OM_CUSTACCT EXP_OM_CUSTACCT EXP_OM_CUSTACCT	TOTOX234 CUST_902 CUST_903 UNCOLFAC RSALE CUST_DEP CUST_DEP TOTOX234	Allocation <u>Factor</u> DIST_TRANSF DIST_SL DIST_METERS DIST_OL
TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL	TOTAL TOTAL TOTAL TOTAL TOTAL	<u>Function</u> TOTAL TOTAL TOTAL TOTAL TOTAL
96,496 922,046 2,084,556 4,5789 1,116,635 4,164,484 35,389,026	- 8,139,609 814,457 (3,220,822) 1,242,127 8,211,298 256,771 1,960,197 7,000,062 2,145,321	- 1,336,240 1,601,457 368,172 2,209 3,320,028 -	1,238,237 4,971,654 19,708,498 10,237,616 793,231 73,309	Total Retail 1,119,162 291,693 447,298 1,587,332 45,591,067
55,830 - 563,319 1,273,549 259,069 682,202 2,544,270 21,587,303	- 4,972,853 497,588 (1,967,745) 758,871 5,016,651 145,948 1,197,572 4,276,652 1,310,673 -		1,081,719 4,119,497 17,453,402 23,122 5,923,184 480,515 64,042	RS 718,032 254,130 24,135,429
3,388 - 34,427 77,832 14,163 41,692 1,316,660	- 303,913 30,410 (120,258) 46,378 306,589 73,189 261,365 80,101	-,, - 85,385 102,332 23,526 141 764 212,147 -	94,401 445,467 1,437,934 1,264 359,446 24,209 5,589 2368 308	GS-1 29,467 40,630 1,040,074
20,760 - 215,979 488,285 124,927 261,560 975,486 975,486	- 1,906,616 190,778 (754,443) 290,955 1,923,408 70,378 459,155 1,639,889 502,518	-,	59,214 394,262 776,771 11,150 2,202,477 149,304 3,506	Dem SEC 328,234 108,234 13,510,951
7,553 - 71,559 161,780 39,183 86,661 323,201 2,752,521		30,956 37,100 8,529 51 277 76,913	1,414 9,820 14,911 3,497 801,347 27,552 84	Demand Metered PRI 35,712 15,904 - 4,824,589 -

- 780)	(1,288,780)	- (12,533,429)	(82,596)	- (10,025,694)	(7,492,308)	TOTAL		(7,492,308) n 25241450/	
- (114)	Ċ	- (2,945)	- 76	_ (1,216)	- 970	TOTAL		970	14)
- 591)	- (372,591)	- (9,612,381)	- 248,570	- (3,968,147)	- 3,164,956	TOTAL		3,164,956	*
- (348) -	0	(6,021)	' 98 80 '	(3,178) -	- 325	TOTAL		325	ι.Υ.
- 819) -	- (596,819) -	- (10,327,280) -	- 167,520 -	- (5,450,675) -	556,690	TOTAL		0.0583051%	nt)
1 1		• 1		• •	, ,	TOTAL	RB_GUP_EPIS_D	,	
606 060	1,280,080 373,909	4,113,107 1,192,119	400,319 135,153	0,328,714 2,472,168	4,349,375	TOTAL		4,349,375	
870	- 1,065,870	- 3,398,268	- 385,269	- 7,047,186 8 520 714	- 12,398,373 15,005,630	TOTAL	RB_GUP_EPIS_D	12,398,373	
)	-			- - (-,-,-,-,)	(í () Tř		(ā
691 341)	19,691 13 051 241	62,781	7,118 7,118	130,192	229,051	TOTAL	RB_GUP_EPIS_D	(47 041 231)	-fn
694)	(3,079,694)	(9,818,861)	(1,113,185)	(20,361,945)	(35,823,515)	TOTAL	RB_GUP_EPIS_D	(35,823,515)	
862,546) (28.692)	(862,546) (28,692)	(2,603,340) (90,240)	(414,970) (10.613)	(6,790,057) (190,628)	(11,114,024) (332,743)	TOTAL	LABOR_M RATEBASE	(11,114,024) (332,743)	
			, ,		1 1				
552	2,288,552	(1,275,887)	1,313,902	14,714,576	35,199,548	TOTAL		35,199,548	∍ Tax
338	2,119,338	6,665,572	783,910 -	14,080,680	24,578,010	TOTAL		24,578,010	
• •				, I, I	, ,			2,422200000%	
90	4,407,890	5,389,685	2,097,812	28,795,256	59,777,558	TOTAL		59,777,558	
452	22,448,452	69,505,159	10,156,537	170,340,313	284,139,776	TOTAL		284,139,776	ome Tax
897	5,441,897	17,024,515 -	2,067,590	36,959,923	64,487,954	TOTAL		64,487,954	
(618)	<u> </u>	 (1,964)	(227)	(4,122)	(7,222)	TOTAL	NP	\sim	
662 313	217,662	598,238 28 071	97,633 4 581	1,608,858	2,780,747	TOTAL	RSALE RSALE	2,780,747 130 480	
032	4,676,032	14,869,048	1,717,883	31,208,094	54,682,337	TOTAL		54,682,337	
352	350,352	962,932	90,009 157,151	1,401,909 2,589,641	4,475,929	TOTAL	RSALE	4,475,929	
оли -		- 100		1 491 050	2 425 683 -	TOTAI		5 AJR 683	
•			ı						
~~	PRI	SEC	GS-1	RS	Total Retail	Function	Factor	Constant	
	Demand Metered				- - -		Allocation		

- 100 79 -	- 10,779 215 775	- 12,486 20 102	- 386,423 74e nun	- 411,024 1 วב1 วבב	TOTAL	MISC_SERV_REV	411,024 1 721 725) Increases
- 5,919,128	- 27,228,028	- 1,660,494	39,201,890	- 59,309,669	TOTAL		59,309,669	
		1 4					1.576484	
- 3,754,639 -	- 17,271,364 -	- 1,053,289 -	- 24,866,660 -	- 37,621,487 -	TOTAL		37,621,487	
- 8.43%	- 8,43% -	8.43%	8.43%	- 8.43%				
- 7,377,735	- 23,203,860	- 2,728,909	- 49,016,967	- 85,559,752	TOTAL	RATEBASE	85,559,752	nc. Defic.)
3,909,014 -	71,/99,/14 -	1,880,864	30,776,122	90,374,625 -	IUIAL		50,374,625	
264,870 62,220	1,109,510 260,632	730,579	8,990,841 2,112,013	11,433,318 2,685,769	TOTAL	EXP_OM_CUSTACCT	11,433,318 2,685,769	
- 3,582,425	- 10,429,571	- 978,666	19,673,267	36,255,538	TOTAL	EXP_OM_DIST	36,255,538	
1 1			۰ ،					
4.14%	2.16%	5.18%	4.15%	4.72%				
3,623,096	5,932,496	1,675,620	24,150,307	47,938,265	TOTAL		47,938,265	
23,233,246	68,962,348	10,578,729	174,985,262	295,979,069	TOTAL		295,979,069	
784,794	(542,811) -	422,192	4,644,949	11,839,293	TOTAL		11,839,293	
801,216	(342,185) -	421,383	4,780,007	11,898,332	TOTAL		11,898,332	
a e 1	• •				TOTAL	RB_GUP_EPIS_D		411.5)
1,3/3,/32 - -	4,3/9,812 - -	496,549	9,082,672	15,979,477 -	TOTAL	RB_GUP_EPIS_D	15,979,477	
))))					
(572,516)	(4,7 21,997) -	(75,166)	(4,302,665)	(4,081,145)	TOTAL		(4,081,145)	Ī
(1,635,759)	(13,491,420)	(214,760)	(12,293,328)	(11,660,413)	TOTAL		(11,660,413)	20
(16,422)	(200,626) -	- 809	(135,058)	(59,040)	TOTAL		(59,040)	
10,508	33,502	3,798	69,475	122,230	TOTAL	RB_GUP_EPIS_D	122,230	111.1)
Demand Metered PRI (SEC	GS-1	RS	Total Retail	Function	Allocation <u>Factor</u>	<u>Constant</u>	

			17.77%	382,020,195	<u>Constant</u>
					Allocation <u>Factor</u>
				DISTPRI DISTSEC ENERGY CUSTOMER TOTAL	Function
			- 17.77% -	202,418,648 91,393,484 - 88,208,063 382,020,195	Total Retail
		,	- 20.30% -	102,765,024 61,917,563 - 61,094,341 225,776,928	RS
		,	- 14.13% -	4,288,077 2,492,116 - 6,217,798 12,997,991	GS-1
			- 38.51% -	64,322,561 26,219,373 6,115,948 96,657,882	SEC
		۰. ۲.	- 22.88% -	30,705,217 - - 496,400 31,201,617	Demand Metered PRI ?

OHIO POWER COMPANY Case No. 11-352-EL-AIR Class and Schedule Revenue Summary (Electric and Gas Unlibes)

Data: 3 MOS Actual & 8 NOS Essimated Type of Filling: ►Orfglinal__Updated__Revised Work Paper Reference No(s):

Schedute E-4 Page i of 2 Witness Responsible: T. Zelina / A. Moore

\$2,325,950 \$3,213,632		0.37% 0.51%	\$2,325,956 \$3,213,632				Pole Attachment Revenues Nac. Service Revenues	PA	30 31
\$619,412,502		99,11%	\$819,412,502	\$0.02331	26,571,606,167	9,464,923	Proposed Distribution Ratali Revenue		29
\$18,381	.	0.00%	\$18,381	\$0.03567	515,359	312	Flood Pumps	FL PUMP-O	28
\$1,501,453		0.24%	\$1,501,453	\$0.03342	44,933,370	2,216	Sahadi Service	SS	27
\$15,480		0.00%	\$15,480	\$0.03658	423, 167	12	Electric Heating Schools	EHS	26
\$1,000,030	•	0.16%	\$1,000,030	\$0.04273	23,402,333	5,969	Electric Healing General	EHG	25
\$5,704,454		0.91%	56,704,464	\$0.08543	66,771,476	11,979	Street Lighting	ŝ	24
\$9,485,559	•	1.52%	\$9,485,559	\$0,18007	59,258,630	1,020,315	Ouldoor Lighting	þ	23
\$11,754	ł	0.00%	\$11,754	\$0.11558	101,700	12	Standby Service - Transmission Voltage	SBS	13
\$2,255,890	•	0.36%	\$2,255,890	\$0.00075	3,018,199,162	59	interruptible Power - Discretionary - Transmission	IRP-0	21
\$126,528		0.02%	\$126,528	\$0.00583	21,695,725	12	Interruptible Power - Olscrationary - Subtransmission	IRP-0	28
\$2,133,575	•	0.34%	\$2,133,575	\$0.00076	2,792,860,624	71	General Service - Large - Transmission Voltage	GS-4	19
\$2,548,927	•	0.47%	\$2,946,927	\$0.00129	2,203,255,639	337	General Service - Large - Subtransmission Voltage	G8-4	18
\$2,300,798	,	0.37%	\$2,300,796	\$0.00888	259,140,848	48	General Service - Large - Primary Voltage	GS-4	17
\$391,242	•	0.06%	\$381.242	\$0.00848	44,947,739	53	General Service - Medium/High Load Fedtor - Transmission	GS-3	16
\$8,887,728		1.42%	\$8,387,728	\$0.01023	868,569,023	913	General Service - Medium/High Load Factor - Subtransmission	65-ù	15
\$47,921,899		7.67%	\$47,321,899	\$0.01627	2,622,741,376	4,005	General Service - Medium/High Load Factor - Primary	65-3	14
562,910,379		10.07%	\$62,910,379	\$0.02259	2,785,279,656	61,852	General Service - Medium/High Load Factor - Secondary	68-3	13
\$2,933,152		0.47%	2,233,152	\$0.02727	107,572,995	8,926	General Service - Time-of-Day	GS-TOD	12
\$277,257		0.04%	\$277_257	\$0.03454	8,028,112	4,485	General Service - Athletic Fields	GS-2 AF	Ħ
\$62,514	•	0.01%	\$62,514	\$0.02696	2,318,777	216	General Service - Energy Storage Provision	GS-2 ONPK	6
669,808\$		0.13%	\$808,800	\$0.01061	76,223,333	58	General Service - Low Load Factor - Transmission	GS-2	φ
\$2,402,072		0.38%	\$2,402,072	\$0.01127	213,059,422	401	General Service - Low Load Factor - Subtranamission	68-2	80
\$12,110,987		1.94%	\$12,110,987	\$0.02984	405,842,942	4,089	General Service - Low Load Factor - Primary	G S-2	7
\$95, 354,384		15.29%	\$95,554,384	\$0.03508	2,724,183,486	339,818	General Service - Low Loed Factor - Secondary	G\$-2	67
\$139,440	ı	0.02%	\$139,440	\$0.05749	2,426,587	8,193	GS-1 Unmetered GS-1 Unmeterd Service	GS-1 Unmetere	(J)
\$28,218		0.00%	\$28,218	\$0.03280	860,395	263	GS-1 On-Peak Service	GS-1 TOD	•
\$19,032,469	ı	3.05%	\$19,032,489	\$0.05029	378,423,775	778,125	General Service - Non-Demand Metered	GS-1	ы
1375,089		0.06%	\$375,069	\$0.04010	9,354,030	4,902	Residential Time Of Day Service	RS-TOD	N
\$338,085,966	•	54.10%	\$338,085,966	\$0.04367	7,741,217,506	7,207,281	Reddential Service	RS	
Propased Revenue Total ()	Annualized Gas or Fuel Cost Revenue (H)	% of Revenue to Total Exclueive of Fuel Costa (C)	Revenue Less Ges or Fuel Cost Revenue (F)	Proposed Rate (E)	Salles KW / KWH (D)	Customer Bills (C)	Ciassel Descript. (B)	Rata Code	No.
			Proposed						

oiso Power Company Case No. 11-382-EL-AIR Class and Schedule Revenue Summary (Electric and Gas Utilities)

Dala: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original__Updatad__Revised Work Paper Reference No(s):

Schedule E-4 Page 2 of 2 Witness Responsible: T. Zelinz/A. Moore

						Current Annualized	Decilien			
Line No.	Rate Code	Cilease Descript. (B)	Customer Billia (C)	Sales KW / KWM	Most Current Rate	Current Annualized Revanue Less Gas or Fuel Cost Revenue [K)	% of Revenue 10 Total [L]	Increase Less Chapter Fuel Costs (N=F-K)	Increase in Revonue Less Fuel Cost Revenue (N=F-KK)	Total Rovenue % (nerease (0)
-	RS	Residential Service	7,207,281	7,741,217,506	\$0.03680	\$264,865,526	53.58%	\$53,230,440	18.69%	7B.69%
N	RS-TOD	Residential Time Of Day Service	4,902	9,354,030	\$0.0297†	\$277,864	0.05%	\$97,205	34.98%	34.98%
ŝ	GS-1	General Service - Non-Demand Melered	778,125	378,423,775	\$0.04302	\$16,279,406	3.06%	\$2,753,064	16.91%	16 91%
4	GS-1 TOD	GS-1 On-Peak Service	263	860,395	\$0.01571	\$13,513	0.00%	\$14,705	108.82%	108.82%
5	GS-1 Unmetere	GS-1 Unmetered GS-1 Unmeterd Service	8,193	2,425,567	\$0.04057	\$90,415	0.02%	\$41,026	41.69%	41.69%
6	GS-2	General Service - Low Load Factor - Secondary	339,818	2,724,183,486	\$0.02493	\$57,909,822	12.77%	\$27,644,561	40.71%	40.71%
-1	G\$-7	General Service - Low Load Factor - Phimary	4,089	405,842,942	\$0.02097	58,512,389	1.60%	\$3,598,598	42.27%	42.27%
œ	GS-2	General Service - Low Load Factor - Subtransmission	401	213,059,422	\$0.01689	\$3,598,367	0.68%	\$1,196,295	-33.25%	-33.25%
9	Q2-2	General Service - Low Load Factor - Transmission	58	76,223,333	\$0.01729	\$1,317,967	0.25%	-\$509,069	-38.63%	-38.63%
i	GS-2 ONPK	General Service - Energy Sturage Provieton	216	2,318,777	\$0.01449	\$33,589	0.01%	\$28,925	86.12%	86.12%
1	GS-2 AF	General Service - Athletic Fields	4,465	8,028,112	\$0.03384	\$271,645	0.05%	\$5,811	2.07%	2.07%
12	6\$-TOD	General Service - Tima-of-Day	8,926	107,572,995	\$0.02154	\$2,317,424	0,44%	\$615,728	28.57%	26.57%
13	05-3	General Service - Medium/High Load Factor - Secondary	61,852	2,785,279,656	\$0.01918	\$53,408,150	10.05%	\$9,502,229	17.79%	17.79%
14	GS-3	General Service - Medium/High Load Factor - Primary	4,005	2,622,741,376	\$0.01589	\$41,154,827	7,74%	\$6,767,072	16,44%	16.44%
5	GS-3	General Service - Medium/High Load Factor - Subtransmission	913	858,569,023	\$0.01515	\$13,161,839	2,48%	\$4,274,111	-32.47%	-32,47%
5	GS-3	General Service - Medium/High Load Factor - Transmission	8	44,947,739	\$0.01256	\$564,449	0.11%	-\$183,209	-32,46%	-32,46%
17	GS-4	General Service - Large - Primary Voltage	48	259,140,848	\$0.00686	\$1,776,454	0.33%	\$524,342	29.52%	29.52%
18	GS-4	General Service - Large - Subtransmission Voltage	397	2,293,255,639	\$0.00381	\$8,725,845	1.84%	-\$5,778,918	-66.23%	-66.23%
19	GS-4	General Service - Large - Transmission Voltage	п	2,792,860,624	\$0.00173	\$4,826,213	0.81%	\$2,692,639	-55.79%	-55.79%
20		Interruptible Power - Discretionary - Subtransmission	12	21,695,725	SO.00769	\$166,841	0.03%	-\$40,313	-24.16%	-24,16%
21	in P-D	Interruptible Power - Discretionary - Transmission	59	3,018,199,182	\$0.00188	\$5,612,840	1.06%	-\$3,356,950	-59.81%	-56.81%
22	SBS	Standby Service - Transmission Voltage	12	101,700	\$0.45415	\$46,187	0.01%	-\$34,432	-74,55%	-74.55%
23	þ	Outdoor Lighting	1,020,315	58,258,630	\$0.10400	\$6,163,132	1.16%	\$3,322,427	53.91%	53.91%
24	ŝ	Street Liphting	11.979	68,771,476	\$0.07308	\$4,879,697	0.92%	\$824,757	16.90%	16.90%
25	EHG	Electric Healting General	5,989	23,402,333	\$0.03075	\$719,665	0,14%	\$280,365	36.96%	38.96%
26	EHS	Electric Heating Schools	12	423,167	\$0.01056	\$4,467	0.00%	\$11,012	246.50%	246.50%
27	SS	School Service	2,210	44,933,370	\$0.02414	\$1,084,558	0.20%	\$416,894	38.44%	38.44%
28	FL PUMP-Q	Flood Pumpe	312	515,350	\$0.02918	\$15,025	0.00%	\$3,353	22.31%	22.31%
29		Distribution Retail Revenue	9,464,923	26,571,006,167	\$0.01986	\$527,796,120	99.27%	\$91,616,382	17.36%	17.36%
28		Pola Attachment Revenues Misc. Service Revenues				\$1,064,601 \$2,802,608	0.20%	\$1,261,355 \$411,024	118.48% 14.67%	
33		Fotal Distribution Revenue				\$531,663,329	100.00%	\$93,288,761	17.55%	

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1a - WP E-4.1c

Schedule E-4.1 Page 1 of 60 Witness Responsible: T. Zelinz / A. Moore

						est Year Proposed		_	
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Annualized Gas or Fuel Cost Revenue (H)	Proposed Revenue Totai (I)
1		, Residential Service							
2	140	Tariffs: 011 to 015, 017, 022 a							
3		Tainis. 011 (0015, 017, 022 a	10 030						
4	Distribution	Charger							
5	Customer C								
6	Bills	marge.	7,207.281		\$8.40	\$60,541,160	17.91%		
7	Energy Cha		1,491,401		40.4V	400 ,241,100	17.31170		
8	First 800			4 800 005 075	40 004 4000	PAG 887 707			
9	All Exces			4.620,925,075	\$0.0214000	\$98,887,797			
10				2,980,891,915	\$0.0214000	\$63,791,087 \$162,678,884	10 100		
11	Total Energ	o chaige				a102,070,004	48.12%		
12	Channes 144	iter Heater Energy Charge		100 100 510		#0.000 474	0.000		
	Storage wa	iter mester chergy charge		139,400,516	\$0.0214000	\$2.983.171	0.88%		
13 14	I and Moon					SO	0.000		
15	loau Maha	gement Water Heater Provision		0 ·	\$0.0214000	ev.	0.00%		
16	(Instrument C	ervice Fund Rider							
17	First 833.			7744 047 500	AA AAA444	P40 030 440			
18	All Exces			7.741,217,506	\$0.0024312	\$18,820,448			
19	Total Charg			0	\$0.000 1731	\$0 \$18,820,448	6 670		
20	i otali Unarg	le				\$16,620,445	5.57%		
20	المعمومة ال	Energy Fund Rider	7.207.281		#0 0000	so	0.00%		
22	Advanced c	cheigy Fund Ruder	1,207,251		\$0.0000	\$U	0.00%		
22		Nt J =							
23 24	KWH Tax F First 2,00			2 005 450 000		400 C00 0CC			
2 4 25				6,995,452,623	\$0.00465	\$32,528,855			
	Next 13,0			743,278,873	\$0.00419	\$3,114,338			
26	Excess ki			2,486,010	\$0.00363	\$9,024	10 500		
27	Total Charg	le .				\$35,652,217	10.55%		
28		femericand Back Descend City		2 214 047 5		#00 070 co7			
29	Everal Fue	clency and Peak Demand Rider		7,741,217,506	\$0.0028902	\$22,373,667	6.62%		
30	Coocert- r	Development Cost Baseves - Dist.			A 005004	CO. 704 CO.	0.455		
31	Economic L	Development Cost Recovery Rider			9,63500%	\$21,794,680	6.45%		
32	Cohooard	Convice Deficibility Disloy			4 50000%	#40.004 E40	2 000		
33 34	ennanced (Service Reliability Rider			4.58062%	\$10,361,510	3.06%		
	anide MAPT		7 007 004		60 67		0 5064		
35 38	gridSMART	w rucer	7,207,281		\$0.27	\$1,945,966	0.58%		
	Man	de Deurs Rides		7 001 010 000	** *****	#004 CCC	6 000		
37	Monongane	ela Power Rider		7,601,816,990	\$0.0001229	\$934,263	0.28%		
38	Tetal DC					8000 405 000	100 005		PDDB GOC 2
39	Total RS		7,207.281	7,741,217,506		\$338,085,966	100.00%	\$0	\$338,085,9

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s); WP E-4.1a - WP E-4.1c

Schedule E-4,1 Page 2 of 60 Witness Responsible: T. Zelina / A. Moore

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				····-		Current Annualized				
Line Na.	Rate Gode (A)	Clase/ Descript. (8)	Customer Bills (C)	Sales KW / KWH (D}	Most Current Rate (J)	Current Annualized Revenue Lees Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Costs (M=F-K)	% increase In Revenue Leas Fuel Cost Revenue (N=M+K)	Total Revenue % Increase (0)
1	RS	Residential Service								
2		Tariffs: 011 to 015, 017, 022 and	038							
3										
4	Distribution.									
5	Customer C	harge:								
6	Bills		7,207,281		\$3.82	\$27,531,813	9.67%	\$33,00 9,3 47	119.90%	119.90%
7	Energy Cha									
8	First 800 I			4,620,925,075	\$0.02356 42	\$108,888,403				
9	All Excess			2,980,891,915	\$0.0171224	\$51,040.024			4 700	4 700
10	Total Energ	y Charge				\$159,928,426	56.14%	\$2,750,457	1.72%	1.72%
11 12	C 1			440 100 540		* • • • • • • •	0.00%	00.001.011	5000 00 8	5993.39%
12	Storage wa	ter Heater Energy Charge		139,400,516	\$0.0 003512	\$48,957	0.02%	\$2,934,214	5993.39%	2689.98%
14	Lond Manag	gement Water Heater Provision		0	65 0000540	\$0	0.00%	\$0	0.00%	0.00%
15	LOCO MONONAL	gentent water meater movision		v	\$0.0 003512	30	0.00%	φu	0.00 %	0.0076
16	Liniversel Si	ervice Fund Rider								
17	First 833,0			7,741,217,506	\$0.0015873	\$12,287,635				
18	All Excess			0	\$0.0001681	30				
19	Total Charg			0	40.000 1001	\$12,287,635	4.31%	\$6,532,813	53.17%	53.17%
20	. diar binarg					4 1 2 , 2 01, 0 00		40,000,000		
21	Advanced E	ineray Fund Rider	7,207,281		\$0.0895	\$645,052	0.23%	-\$645.052	-100.00%	-100.00%
22					+					
23	KWH Tax R	lider								
24	First 2,000	DkWh		6,995,452,623	\$0.00465	\$32,528,855				
25	Next 13,0	00 kWh		743,278,873	\$0.00419	\$3,114,338				
26	Excess kv	Nh		2,486,010	\$0.00363	\$9,024				
27	Total Charg	e				\$35,652,217	12.52%	\$0	0.00%	0.00%
28										
29	Energy Effic	sency and Peak Demand Rider		7,741,217,506	\$0.0029405	\$22,763,050	7.99%	-\$389,383	-1.71%	1.71%
30										
31	Economic D	evelopment Cost Recovery Rider			8.36693%	\$15,688,763	5.51%	\$6,105,916	35.92%	38.92%
32										
33	Enhanced S	Service Reliability Rider			5.49819%	\$10,309,612	3.62%	\$51,898	0.50%	0.50%
34									100 000	488.8
35	gridSMART	@ Rider				\$0	0.00%	\$1,945,988	100.00%	100.00%
36 37	Manua	la Davias Ridas				P A	0.000	#094 989	100.00*	100 000
38	wonongahe	la Power Rider				\$0	0.00%	\$934,263	100.00%	100.00%
39	Total RS		7,207,281	7,741,217,506		\$284,855,526	100.00%	\$53,230,440	18.69%	18.69%
29	i utar na		1,201,281	1,741,211,300		3204,000,020	100.00%	403,230,440	10.03%	10.09%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original_Updated_Revised Work Paper Reference No(s): WP E-4.1d - WP E-4.1e

Schedule E-4.1 Page 3 of 60 Witness Responsible: T. Zellna / A. Moore

		<u></u>				Test Year Propose	d	_	
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Arinualized Gas or Fuel Cost Revenue (H)	Proposed Revenue Total (I)
1	RS-TOD R	esidential - Time of Day Service							
2	Tariffs: 030, 032,	, 034							
Э									
4	Distribution Charge	262							
5	Customer Charge	<u>}:</u>							
6	Bills		4.902		\$9.25	\$45,344	12.09%		
7	Energy Charge:								
8	On-Peak			2,696,466	\$0.0214000	\$57,704			
9	Off-Peak			6,657,584	\$0.0214000	\$142,472			
10	Total					\$200,176	53.37%		
11									
12	Universal Service			0.054.000	** ****	A00 740			
13 14	First 833,000 kl All Excess kWh			9,354,030	\$0.0024312 \$0.0001731	\$22,742 \$0			
15	Total Charge	1		0	50.0001731	\$22,742	6.06%		
16	rolai Charge					#22,142	0.0076		
17	Advanced Energy	/ Fund Ride(4,902		\$0.0000	\$0	0.00%		
18	Northingou Erisigi				40.0000	Ψ0	0.0070	,	
19	KWH Tax Rider								
20	First 2,000 kWh	1		6,991,977	\$0.00465	\$32,513			
21	Next 13,000 kW			2,339,937	\$0.00419	\$9,804			
22	Excess kWh			22,116	\$0.00363	\$80			
23	Total Charge					\$42,397	11.30%		
24							•		
25	Energy Efficiency	and Peak Demand Rider		9,354,030	\$0.0028902	\$27,035	7.21%		
26									
27	Economic Develo	opment Cost Recovery Rider			9.63500%	\$23,656	6.31%		
28									
29	Enhanced Servic	e Reliability Rider			4.58062%	\$11,246	3.00%		
30			4 6 8 7		An <i>c</i>				
31	gridSMART® Rid	er	4,902		\$0.27	\$1,324	0.35%		
32 33	Managarahat- Da	was Didea		0.054.000	#0 000/000	£4 450	0.219		
33 34	Monongahela Po	Wernuer		9,354,030	\$0.0001229	\$1,150	0.31%		
34 35	Total RS-ES		4,902	9,354,030		\$375,069	100.00%	\$0	\$375,069
35			4,902	9,304,030		43/3,009	100.0076	<u>φυ</u>	φοι ο 000

Schedule E-4.1 Page 4 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualize	bd	_		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Gurrent Rate (J)	Current Annualized Revenue Loss Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Costs (M=F-K)	% increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase (Q)
1	RS-TOD Re	sidential - Time of Day Service								
2	Tariffs: 030, 032,									
3										
4	Distribution Charc									
5	Customer Charge	:								
6	Bille		4,902		\$7.64	\$37,451	13.48%	\$7,892	21.07%	21.07%
7	Energy Charge:									
8	On-Peak			2.696,466	\$0.0479974	\$129,423				
9 10	Off-Peak			6,657,564	\$0.0003512	\$2,338		#•••••••••••••	F4 000	F4 000
10	Total					\$131,761	47.42%	\$68,415	51.92%	51.9 2%
12	Universal Service	Event Bides								
13	First 833.000 kV			9.354.030	\$0.0015873	\$14.848				
14	All Excess kWh			8,334,030	\$0.0015873 \$0.0001681	\$14,040 \$0				
15	Total Charge			U	30.0001061	\$14,848	5.34%	\$7,894	53.17%	53.17%
16	rotel ontinge					\$14,940	0.0470	41 Jugar	00.1175	00.117.00
17	Advanced Energy	Fund Rider	4,902		\$0.0895	\$439	0.16%	-\$439	-100.00%	-100.00%
18	37		.,			4.04	•••••	•		
19	KWH Tax Rider									
20	First 2,000 kWh			6,991,977	\$0.00465	\$32,513				
21	Next 13,000 kW	ſh		2,339,937	\$0.00419	\$9,804				
22	Excess kWh			22,116	\$0.00363	\$80				
23	Total Charge					\$42,397	15.26%	\$0	0.00%	0.00%
24										
25	Energy Efficiency	and Peak Demand Rider		9,354,030	\$0.0029405	\$27,506	9.90%	-\$471	-1.71%	-1.71%
26								.		
27	Economic Develo	pment Cost Recovery Rider			8.36693%	\$14,158	5.10%	\$9,498	67.09%	67.09%
28	.									
29	Enhanced Service	e Rehability Rider			5.49819%	\$9,304	3.35%	\$1,943	20.88%	20.88%
30 31						\$0	0.00%	\$1 ,324	100.00%	100.00%
32	gridSMART® Rid	3				\$0	0.00%	31,324	100.00%	100.00%
33	Monongahela Pov	ver Pider				\$0	0.00%	\$1,150	100.00%	100.00%
34	MUNUNUNganata POV					94U	0.00%	φ1,10 0	TO G AND 7D	100.0076
35	Total RS-ES		4,902	9,354.030		\$277,864	100.00%	\$97,205	34.98%	34.98%
~~	· 4104 · 144-164		-+,002	5.004.000		Ø211,004	100.00%	400,000	47.997D	04.0076

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original___Updated___Revised Work Paper Reference No(s): WP-4.11

Schedule E-4.1 Page 5 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d	_	
Line Na.	Rate Code (A)	Class/ Descript. (원)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (i =F+H)
1 2 3	GS-1	General Service - Non-Deman Tariiffs: 211 and 830	d Metered						
3 4 5 6	Customer C Energy Cha		778,125	378,423,775	\$7.85 \$0.0174700	\$6,108,281 \$6,611,063	32.09% 34.74%		
7 8 9 10	Universal S First 833, All Excess Total Chard	s kWn		378,423,775 0	\$0.0024312 \$0.0001731	\$920,D24 \$0 \$920,024	4.83%		
11 12 13	• • • • •	e Energy Fund Rider	778,125		\$0.0000	\$020,024	0.00%		
14 15 16 17	KWH Tax F First 2,00 Next 13,0 Excess k	0 kWh 00 kWh		351,460,014 26,807,844 155,917	\$0.00465 \$0.00419 \$0.00363	\$1,634,289 \$112,325 \$566			
18 19 20	Total Charg Energy Effi	ge ciency and Peak Demand Rider		378,423,775	\$0.0026773	\$1,747,180 \$1,013,154	9.18% 5.3 2%		
21 22 23	Economic (Development Cost Recovery Rider			9.63500%	\$1,225,509	6.44%		
24 25 26	Enhanced S	Service Relfability Rider ® Rider	778,125		4.58062% \$1.00	\$582,625 \$778,125	3.06% 4.09%		
27 28 29	-	ala Power Rider		378,423,775	\$0.0001229	\$46,508	0.24%		
29 30	Total GS-1		778,125	378,423,775	-	\$19,032,469	1 00.00%	\$0	\$19,032,469

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original___Updated___Revised Work Paper Reference No(s): WP-4.11

Schedule E-4.1 Page 8 of 60 Witness Responsible: T. Zelina / A. Moora

					Current Annualize	d			
Line No.	Rate Class/ Code Descript. (A) (B)	Cuştomer Bilis (C)	Sales KWJ KWH (D)	Mast Gurrent Rate (J)	Current Annualized Revenue Loss Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Costs (M=F-K)	% increase in Ravenus Less Fuel Cost Revenue (N=M+K)	Total Revenue % increase (O)
1 2	GS-1 General Service - Non- Tariffs: 211 and 830	Demand Metered							
3 4 5 6	Customer Charge: Energy Charge	778.125	378,423,775	\$13.17 \$ 0.0027999	\$10,247,906 \$1,059,549	62.95% 6.51%	-\$4,139,625 \$5,551,515	-40.39% 523.95%	-40.39% 523.95%
7 8 9 10	Universal Service Fund Rider First 833,000 kWh All Excess kWh Total Charge		378, 423,775 0	\$0.0015873 \$0.0001681	\$600,672 \$0 \$600,672	3.69%	\$319.352	53.17%	53.17%
11 12 13	Advanced Energy Fund Rider	778,125		\$0.0895	\$69,642	0.43%	-\$69,642	-100.00%	-100.00%
t4 15 16 17	KWH Tax Rider First 2,000 kWh Next 13,000 kWh Excess kWh		351,460,014 26,807,844 155,917	\$0.00465 \$0.00419 \$0.00363	\$1,634,289 \$112,325 \$566				
18 19	Total Charge				\$1,747,180	10.73%	\$0	0.00%	0.00%
20 21	Energy Efficiency and Peak Demand R		378,423,775	\$0.0026073	\$986 ,664	6.06%	\$28,490	2.68%	2.68%
22 23 24	Economic Development Cost Recover Enhanced Service Reliability Rider	y Rider		8.36693%	\$946,087 \$621,705	5.81% 3.82%	\$279,422	29.53% -6.29%	29.53% -6.29%
24 25 26	anidSMART® Rider			5.49819%	\$0∠1,705 \$0	3.82% 0.00%	\$778,125	-0.29%	-10.∠9% 100.00%
27 28	Monongahela Power Rider				\$0	0.00%	\$46,508	100.00%	100.00%
29 30	Total GS-1	778,125	378,423,775		\$16,279,406	100.00%	\$2,753,064	16.91%	16.91%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: >Original_Updated_Revised Work Paper Reference No(s): WP E-4.1g

Schedule E-4.1 Page 7 of 80 Witness Responsible: T. Zelina / A. Moore

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			<u></u>			Test Year Propose	d	_	
Line No.	Rate Code (A)	Class/ Descript. (8)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total {G}	increase Less Gas or Fuel Costs <u>(H)</u>	Proposed Total Revenue (I =F+H)
1	GS-1 G	iS-1 On-Peak							
2	Tariff: 225								
3									
4	Distribution Char	roes							
5	Customer Charg								
6	Bils		263		\$8.70	\$2,288	8.11%		
7	Energy Charge:						••••••		
8	On-Peak			240.886	\$0.0174700	\$4,208			
9	Off-Peak			619,509	\$0.0174700	\$10,823			
10	Total			0.0,000	401011-1100	\$15,031	53.27%		
11		•				ψ10,001	00.21 10		`
12	Universal Service	e Euod Rider							
13	First 833,000 k			860.395	\$0.0024312	\$2.092			
14	All Excess kWi			000,000	\$0.0001731	\$0			
15	Total Charge			•	40.0001101	\$2,092	7.41%		
16	Total Onlarge					<i>\$2,002</i>			
17	Advanced Energ	v Fund Rider	263		\$0.0000	\$0	0.00%		
18	/ 10/01/00/01/01/0-8	, · · · · · · · · · · · · · · · · · · ·			40.0000	**	•••••		
19	KWH Tax Rider								
20	First 2,000 kW	h		279,158	\$0.00465	\$1,298			
21	Next 13.000 kV			473.023	\$0.00419	\$1,982			
22	Excess kWh			108,214	\$0.00363	\$393			
23	Total Charge	,		100,214	40.00000	\$3.673	13.02%		
24	rotal charge					40,070	10.0270		
25	Energy Efficience	y and Peak Demand Rider		860,395	\$0.0026773	\$2,304	8.16%		
26	Chergy Enicients	y and I cak bemand I dae		000,000	\$0.00Z0113	44,004	0.1070		
27	Economic Devel	opment Cost Recovery Rider			9.63500%	\$1,669	5.91%		
28		opment eval recovery riddi			0.00000	41,003	0.0170		
29	Enhanced Servic	æ Reliability Rider			4.58062%	\$793	2.81%		
30		Contracting Contraction			7.00002.0	#(22)	E.0 / /0		
31	gridSMART® Rid	ter	263		\$1.00	\$263	0.93%		
32	BURDING LOU		200		ψι.00	9603	0.0070		
33	Monongahela Po	wer Rider		860,395	\$0.0001229	\$106	0.37%		
34	wononganeia ⊢u			000,380	90.000 (<i>EE</i> 9	φισο	0.0170		
35	Total GS-1 On-P	lask Senice	263	860,395		\$28,218	100.00%		528,218
33	TOBI 93-1 OIFF	CON DOI AIGE	203	000,393		440,418	100.0070		φευ,210

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1g

Schedute E-4.1 Page 8 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualiza	d	_		
Line No.	Rate Code (A)	Ciass/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Curreni Rate (J)	Current Annualized Revenue Less Cas or Fuel Cosi Revenue (K)	% of Revenue to Total (L <u>)</u>	increase Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue {N=M+K}	Totał Revenue % Increase {0)
1	GS-1	GS-1 On-Peak								
2	Tariff: 225				`					
3										
4	Distribution Ch	kanges								
5	Customer Cha	rge:								
6	Bilts	5	263		\$15.08	\$3,966	29.35%	-\$1.678	42.31%	42.31%
7	Energy Charge	3 .						- , .		
8	On-Peak			240.886	\$0.0052646	\$1,268				
9	Off-Peak			619,509	\$0.0003512	\$218				
10	Total					\$1,486	10.99%	\$13,545	911.69%	911.69%
11										
12	Universal Serv	rice Fund Rider								
13	First 833,000) kWh		860,395	\$0.0015873	\$1,366				
14	All Excess ki	Wh		0	\$0.0001681	\$0				
15	Total Charge					\$1,366	10.11%	\$726	53.17%	53.17%
16										
17	Advanced Ene	argy Fund Rider	263		\$0.0895	\$24	0.17%	-\$24	-100.00%	-100.00%
18										
19	KWH Tax Ride	91								
20	First 2,000 k ¹			279,158	\$0.00465	\$1,298				
21	Next 13,000			473,023	\$0.00419	\$1,982				
22	Excess kWh			108,214	\$0.00363	\$393				
23	Total Charge					\$3,673	27.18%	\$0	0.00%	0.00%
24										
25	Energy Efficier	ncy and Peak Demand Rider		860,395	\$0.0026073	\$2,243	16.60%	\$60	2.68%	2.68%
26										
27	Economic Dev	elopment Cost Recovery Rider			8.36693%	\$456	3.38%	\$1,213	265.83%	265.83%
28										
29	Enhanced Ser	vice Reliability Rider			5.49819%	\$300	2.22%	\$494	164.66%	164.68%
30										
31	gridSMART® F	Rider				\$0	0.00%	\$263	10 0.00%	100.00%
32										
33	Monongahela I	Power Hider				\$0	0.00%	\$106	100.00%	100.00%
34							<u> </u>			
35	Total GS-1 On	-Peak Service	263	860,395		\$1 3,513	100.00%	\$14,705	108.82%	108.82%

Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1h

Schedule E-4.1 Page 9 of 60 Witness Responsible: T. Zelina / A. Moore

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						Test Year Propose	4		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales Kwi / Kwi (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (i ≡F+H)
1	GS-1	General Service - Non-Demand	Unmetered						
2		Tariff: 213							
3									
4	Customer C	-	8,193		\$6.30	\$51,616	37.02%		
5	Energy Cha	rge		2,425,567	\$0.0174700	\$42,375	30.39%		
6									
7		arvice Fund Rider							
8	First 833,0			2,425,567	\$0.0024312	\$5,897			
9	Alt Excess			0	\$0.0001731	<u>\$0</u>			
10	Total Charge	ė				\$5,897	4.23%		
11		·							
12	Advanced E	nergy Fund Rider	8,193		\$0.0000	\$0	0.00%		
13	_								
14	KWH Tax R								
15	First 2,000			2,268,056	\$0.00465	\$10,546			
16	Next 13,0			157,511	\$0.00419	\$660			
17	Excess kV			0	\$0.00363	<u> </u>			
18	Total Charg	e				\$11,206	8.04%		
19									
20	Energy Effic	iency and Peak Demand Rider		2,425,567	\$0.0026773	\$6,494	4.66%		
21									
22	Economic D	evelopment Cost Recovery Rider			9.63500%	\$9,056	6.49%		
23							-		
24	Enhanced S	ervice Reliability Rider			4.58062%	\$4,305	3.09%		
25									
26	gridSMART	® Rider	8,193		\$1.00	\$8,193	5.88%		
27									
28	Monongahe	la Power Rider		2,425,567	\$0.0001229	\$298	0.21%		
29									
30	Total GS-1	Unmetered	8,193	2,425,567		\$139,440	100.00%	\$0	\$139,440

Data: 3 MOS Actual & 9 MOS Estimated Type of Filling: Coriginal_Updated_Revised Work Paper Reference No(s): WP E-4.1h

Schedule E-4.1 Page 10 of 60 Witness Responsible: T. Zelina / A. Moore

_						Current Annualize	d	_		
Line No.	Rate Code (A)	Clasa/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % increase (O)
1 2 3		eral Service - Non-Demand U f: 213	nmetered							
4 5 6	Customer Charge: Energy Charge		8,193	2,425.567	\$7.35 \$0.0027999	\$60,219 \$6,791	61.19% 6.90%	-\$8,603 \$35,583	-14.29% 523.95%	-14.29% 523.95%
7 8 9 10	Universal Service Fi First 833,000 kWh Ali Excess kWh Total Charge			2,425,567 0	\$0.0015873 \$0.0001681	\$3,850 \$0	3.91%	\$2.047	53.17%	53.17%
11 12 13	Advanced Energy F	und Rider	8,193		\$0.0895	\$733	0.75%	-\$733	-100. 00 %	-1 00.00%
14 15 16 17	KWH Tax Rider First 2,000 kWh Next 13,000 kWh Excess kWh			2,268,056 157,511 0	\$0.00465 \$0.00419 \$0.00363	\$10,548 \$660 \$0				
18 19	Total Charge					\$11,206	11.39%	\$0	0.00%	0.00%
20 21 22		1d Peak Demand Rider		2,425,567	\$0.0026073	\$6,324	6.43%	\$170	2.68%	2.68%
23 24	Economic Developm Enhanced Service F	nent Cost Recovery Rider			8.36693% 5.49819%	\$5.607 \$3.684	5.70% 3.74%	\$3.449 \$621	61.52% 16.86%	61.52% 16.86%
25 26	gridSMART® Rider	A CHARMERY FUNCT			5.4981976	\$0,004	0.00%	58,193	100.00%	100.00%
27 28	Monongahela Pówe	r Rider				\$0	0.00%	\$296	100.00%	100.00%
29 30	Total GS-1 Unmeter	ed	8,193	2,425,567		\$98,415	100.00%	\$41,026	41.69%	41.69%

Schedule E-4.1 Page 11 of 60 Witness Responsible: T. Zeilna / A. Moore

						_			
Line No,	Rate Code (A)	Ciase/ Descript. (E)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (i =F+H)
1	GS-2 Gen	eral Service - Low Load Facto	r (Proposed GS-2)						
2	Secondary Voltage								
3	Tariffs: 215, 218, 23	31, 840							
4									
5	Customer Charge		328.961		\$12.85	\$4,227,149	4.42%		
6	Demand Charge (\$	per kW)		10,771,564	\$4.90	\$52,780,864	55.24%		
7	Excess Demand Ch			243,780	\$2.04	\$497,311	0.52%		
8	Energy Charge (\$ po			2,721,618,861	\$0.0000000	\$0	0.00%		
9				~1, 1, 1, 0, 0, 0, 1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<i></i>	0.00 /8		
10	Minimum Energy Ch	arcie Calculation							
11	Customer Charge		8.480		\$12.85	\$108,968			
12	Demand Charge (\$	oor kiitt	0.460	103 003					
13	Excess Demand Cha			107,837	\$4.90 \$2.04	\$528,401			
14		aiße (à bei KAY)		33,032	-	\$67,385		•	
	Energy (\$ per kWh)			599,693	\$0.0000000	A70 + 770	a 7 100		
15	Total					\$704,755	0.74%		
16									
17	Maximum Energy Cl	harge Calculation							
18	Customer Charge		2,377		\$12.85	\$30,544			
19	Demand Charge (\$			61,408	\$4.90	\$300,899			
20	Excess Demand Ch	arge (\$ per KVA)		58,442	\$2.04	\$119,222			
21	Energy Charge			1,964,932	\$0.0000000	<u>\$0</u>			
22	Total					\$450,665	0.47%		
23									
24	Altamate Feed Serv	ice Charges	1,950		\$3,81	\$7, 430	0.01%		
25									
26	Universal Service Fi	und Rider							
27	First 833,000 kWh			2,724.508,516	\$0.0024312	\$6,623,825			
28	All Excess kWh			100,579	\$0.0001731	\$17			
29	Total Charge					\$6,623,843	6.93%		
30	i otari ornargio					40,020,040	0.0074		
31	Advanced Energy Fi	und Rider	339.818		\$0.0000	50	0.00%		
32	Notelling a might		0001010		40.0000	44	0.007		
33	KWH Tax Rider								
34	First 2,000 kWh			585.041.175	\$0.00465	\$2,720,441			
35	Next 13.000 kWh								
				1.150,065,387	\$0.00419	\$4,818,774			
36	Excess kWh			980,380,568	\$0.00363	\$3,558,781			
37	Total Charge					\$11,097,997	11.61%		
38									
39	Energy Efficiency an	d Peak Demand Rider		2,724,609,095	\$0.0026773	\$7,294,596	7.63%		
40									
41	Economic Developm	ent Cost Recovery Rider			9.36500%	\$5,494,256	5.75%		
42									
43	Enhanced Service R	teliability Rider			4.58062%	\$2,687,357	2.81%		
44									
45	gridSMART® Rider		339.818		\$1.00	\$339,818	0,36%		
46						-			
	Monongahela Powe	Rider		2,724,609,095	\$0.0012290	\$3,348,545	3.50%		
47	MUNUNUMBAR COMB								
47 48	MUNORQ2004 FOWS								

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.11 - WP E-4.1j Schedule E-4.1 Page 12 of 60 Witness Responsible: T. Zelina / A. Moore

	•					Current Annualize	d	-		
Line No.	Rate Code (A)	Class/ Descript, (B)	Customer Bills (C)	Sales Kw / KwH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue [K]	% of Revence to Total (L)	Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase (O)
1	GS-2 General Ser	vice - Low Load Fact	lor							
2	Secondary Voltage									
3	Tariffs: 215, 218, 231, 840							,		
4										
5	Gustomer Charge		328,961		\$22.91	\$7,536,497	11 10%	\$3,309,348	-43.91%	-43.919
6	Demand Charge (\$ per kW			10,771,132	\$2.75	529.620.6 13	43.62%	\$23,160,051	78.19%	78.199
7	Excess Demand Charge (\$			243.780	\$3.82	\$931,240	1.37%	-\$433,928	-46.60%	-46.60%
8	Energy Charge (\$ per kWh))		2,721,618,861	\$0.0003512	\$955,833	1.41%	-\$955,833	-100.00%	-100.009
9	_									
10	Minimum Energy Charge C	alculation								
11	Customer Charge		8,480		\$22.91	\$194,277				
12	Demand Charge (\$ per kW			107,837	\$2.75	\$296,552				
13	Excess Demand Charge (\$			33,032	\$3.82	\$126,182				
14	Energy Charge (\$ per kWh			599,693	\$0.0000000	\$0				
15	Total					\$617,011	0.91%	\$87,744	14.22%	14.22%
16		al								
17	Maximum Energy Charge (alculation								
18	Customer Charge		2,377		\$22.91	\$54,457				
19 20	Energy Charge (\$ per kWh)			1,964,932	\$0.0553420	\$108,743	0.049	8002 400		176.149
20	Total					\$163,200	0.24%	\$287,465	176.14%	175.149
22	Alternate Feed Service Cha	10000	4.050		#3 07	#5 007	0.014	81 440	21.10%	24,109
23	Alternate Feet Service Cita	uñas	1,950		\$3.07	\$5,987	0.01%	\$1,443	24.10%	24.107
23	Universal Service Fund Rid	or								
25	First 833,000 kWh	0		0 704 500 540	10 00 4 E070	#4 504 645				
26	,			2.724,508,516	\$0.0015873	\$4,324,612				
20	All Excess kWn Total Charge			100,579	\$0.0001681	\$17	¢ 776/	\$2,299,213	CD 4714	58,179
28	(oral Ghange					\$4,324,629	6.37%	\$ 4,2 \$\$, 2 15	53.17%	90.175
20 29	Advanced Energy Fund Rid	ter	339,818		\$0.0895	\$30,414	0.04%	-\$30,414	-100.00%	-100.00%
30	Advanced Energy Fond For		338,010		PO'NGRO	330, 414	0.04%	*#30,414	-100.0076	-100.007
31	KWH Tax Rider									
32	First 2,000 kWh			585,041,175	\$0.00465	\$2,720,441				
33	Next 13,000 kWh			1,150,065,387	\$0.00419	\$4,818,774				
34	Excess kWh			980,380,568	\$0.00383	\$3,558,781				
35	Total Charge			300,000,000	00.00000	\$11,097,997	16.34%	50	0,00%	0.003
36	total offenge					411,431,441	14.8-14	40	0.2010	0100 /
37	Energy Efficiency and Peak	Demand Rider		2,724,609,095	\$0.0026073	\$7,103,873	10.46%	\$190,723	2.68%	2.689
38	Energy Enderiney and the			2,12-4,000,000	40.0010010	φ1,100,010	10.4070	4100,720	2.00%	2.007
39	Economic Development Co	st Recovery Rider			8.36693%	\$3,332,580	4.91%	\$2,161,676	64,88%	64.869
40					4.0000070	101,002,000				0
41	Enhanced Service Reliabili	y Rider			5.49819%	\$2,189,950	3,22%	\$497,407	22.71%	22.719
42					Q. 7901970					
43	gridSMART® Rider					\$0	0.00%	\$339,618	100.00%	100.009
44	·····					40				
45	Monongahela Power Rider					50	0.00%	\$3,348,545	100.00%	100.00%
46	· ····									
										40.719

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original_Updated_Revised Work Paper Reference No(s): WP E-4.1k - WP E-4.1l

Schedule E-4.1 Page 13 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d	-	i	
Line No.	Rate Cade (A)	Code Descript. (A) (B)	Cade Descript.		Sales Kw / KwH (D)	Proposed Reta (E)	Proposed Annusilzed Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Lass Gas or Fuel Costs (H)	Proposed Total Revenue (I =F+H)
1	GS-2 Ge	meral Service - Low Load Fac	tor (Proposed GS-2)							
2	Primary Voltage									
3										
4	Customer Charge		3,861		\$52.60	\$203,074	1.68%			
5	Demand Charge (\$ per kW)		1,720,198	\$3.81	\$6,553,954	54.12%			
6	Excess Demand (Charge (\$ per KVA)		86.439	\$2.04	\$176,336	1.45%			
7	Energy Charge (\$	per kWh)		404,739,699	\$0.0000000	\$0	0.00%			
8										
9	Minimum Energy (Charge (\$ per kWh)								
10	Customer Charge	• • • • • • • •	152		\$52.60	\$8,006				
11	Demand Charge			33,288	\$3.81	\$126,827				
12		Charge (\$ per KVA)		87,971	\$2.04	\$179,461				
13	Energy Charge (\$			227,331	\$0.0000000	\$0				
14	Total			221,001		\$314,294	2.60%			
15						401-1-60-4				
16	Maximum Energy	Charge Calculation								
17	Customer Charge		78		\$52.80	\$4,017				
18	Demand Charge (24,227	\$3.81	\$92,305				
19		Charge (\$ per KVA)		65,686	\$2.04	\$133,999				
20	Energy Charge (\$			875,912	\$0.0000000	\$0				
21	Total	per wing		0/3,912	30.0000000	\$230.321	1.90%			
22	10600					φ 2 30,3£1	1.3070			
23	Universal Service	Fund Didee								
23 24	First 833,000 kV			378,110.057	\$0.0024312	2040 0C-1				
24	All Excess kWh				+	\$919,261				
	Total Charge			27,741,423	\$0.0001731	\$4,802	7.63%			
26 27	LOGE OFFERBE					\$924,063	1.0370			
28	Advanced Energy	Sund Bides	4,089		#0 50 00	**	0.00%			
	Advanced Energy	runa raaer	4,008		\$0.0000	\$0	0.00%			
29	Manual Taya Dialasa									
30	KWH Tax Rider									
31	First 2,000 kWh			8,164,462	\$0.00465	\$37,965				
32	Next 13,000 kW	n		43,097,505	\$0.00419	\$180,579				
33	Excess kWh			354,492,110	\$0.00363	\$1,286,806	40 400			
34	Total Charge					\$1,505,350	12.43%			
35	F	and Back Barry (Horse				A. A				
36	Energy Emclency	and Peak Demand Rider		405,851,480	\$0.0026773	\$1,086,586	8.97%			
37	F units Du 1					A	C 000'			
38	Economic Develo	pment Cost Recovery Rider			9.63500%	\$720,503	5.95%			
39	- · · · · · · · ·									
40	Enhanced Service	Reliability Rider			4.58062%	\$342,538	2.83%			
41										
42	gridSMART® Ride	er	4,089		\$1.00	\$4,08 9	0.03%			
43										
44	Monongahela Pov	ver Rider		405,851,480	\$0.0001229	\$49,879	0.41%			
45		_								
46	Total GS-2 Primar	Y	4,089	405,842,942		\$12,110,987	1 00 .00%	\$0	\$12,110,987_	

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated____Revised Work Paper Reference No(s): WP E-4.1k - WP E-4.1

Schedule E-4.1 Page 14 of 60 Witness Responsible: T. Zelina / A. Moore

Line No.	Rate Class/ Code Descript. (A) (B) GS-2 General Service - Low Load Factor Primary Voltage	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gat or Fuel Cost Revenue (K)	% of Revenue to Total {L}	increase Less Gas or Fuel Costs (M=F-K)	% increase in Revenue Less Fuei Cost Revenue (N=M+K)	Total Revenue % Increase (0)		
1	GS-2 Ge	neral Service - Low Load Facto	r								
2	Primary Voltage										
3											
4	Customer Charge		3,861		\$95.47	\$368,583	4.33%	-\$165,5 0 9	-44.90%	-44.90%	
5	Demand Charge (\$ per kW)		1,713,822	\$1.98	\$3,393,368	39.86%	\$3,160,587	93.14%	93.14%	
6	Excess Demand (harge (\$ per KVA)		86,439	\$3.82	\$330,197	3.88%	-\$153,861	-46.60%	-46.60%	
7	Energy Charge (\$	per kWh)		404,739,699	\$0.0003512	\$142,145	1.67%	-\$142,145	-100.00%	-100.00%	
8											
9	Minimum Energy	Charge (\$ per kWh)									
10	Customer Charge		152		\$95.47	\$14,531					
11	Demand Charge (\$ per kW)		33,288	\$1.98	\$65,910					
12	Excess Demand (harge (\$ per KVA)		87,971	\$3.82	\$336,049					
13	Energy Charge (\$	per kWh)		227,331	\$0.000000	\$0					
14	Total					\$416,491	4.89%	-\$102,196	-24.54%	-24.54%	
15											
16	Maximum Energy	Charge Calculation									
17	Customer Charge		76		\$95.47	\$7,263					
18	Energy Charge (\$	per kWh)		875,912	\$0.0398758	\$34,928					
19	Total					\$42,190	0.50%	\$188,131	445.91%	445.91%	
20											
21	Universal Service	Fund Rider									
22	First 833,000 kV	Vh		378,110,057	\$0.0015873	\$600,174					
23	All Excess kWh			27,741,423	\$0.0001681	\$4,663					
24	Total Charge					\$604,837	7.11%	\$319,226	52.78%	52.78%	
25											
26	Advanced Energy	Fund Rider	4,089		\$0.0895	\$366	0.00%	-\$366	-100.00%	-100.00%	
27					+						
28	KWH Tax Rider										
29	First 2,000 kWh			8,164,462	\$0,00465	\$37,965					
30	Next 13,000 kW	h		43.097.505	\$0.00419	\$180,579					
31	Excess kWh			354,492,110	\$0.00363	\$1,286,806					
32	Total Charge					\$1,605,350	17.68%	50	0.00%	0,00%	
33											
34	Energy Efficiency	and Peak Demand Rider		405.851.480	\$0.0026073	\$1,058,177	12.43%	\$28,410	2.68%	2.68%	
35						• • • • • • • • • • • • • • • • • • • •					
36	Economic Develo	ment Cost Recovery Rider			8.36693%	\$392,658	4.61%	\$327,846	83.49%	83.49%	
37											
38	Enhanced Service	Reliability Rider			5.49819%	\$258,029	3.03%	\$84,509	32.75%	32.75%	
39					2					-	
40	gridSMART® Ride	ar				\$0	0.00%	\$4,089	100.00%	100.00%	
41						40					
42	Monongahela Poy	ver Rider				\$0	0.00%	\$49,879	100.00%	100.00%	
43						20		• • • • • •			
		Y	4.089	405,842,942		\$8,512,389	100.00%	\$3,598,598	42.27%	42.27%	

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__updated__Revised Work Paper Reference No(s): WP E-4.1m - WP E-4.1m

Schedule E-4.1 Page 15 of 60 Witness Responsible: T. Zellina / A. Moore

						Test Year Propose	d		
Line No.	Rate Class/ Customer Code Descript. Bills (A)(B) (C)	Bills	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (1=F+H)	
1	68-2 Ge	neral Service - Low Load Facto	(Proposed GS-2)						
2	Subtransmission \								
3									
4	Customer Charge		378		\$806.10	\$304,706	12.69%		
5	Demand Charge (\$ nar kWA	0.0	788,857	\$0.00	\$004,100	0.00%		
6		harge (\$ per KVA)		83,495	\$2.04	\$170,330	7.09%		
ž	Energy Charge (\$			213,035,416	\$0.0000000	\$170,000	0.00%		
8	mergh cualfie (a	then waarin		213,033,410	30.000000	φ¢	0.00%		
9	Minimum Engrav (Charge Calculation							
9 10		vialde Calcoratori	23		6 000 40	640 E40			
	Customer Charge	* 1910	23	0.400	\$806.10	\$18,540			
11	Demand Charge (3,180	\$0.00	\$0			
12		harge (\$ per KVA)		308	\$2.04	\$628			
13	Energy Charge (\$	perkWh)		24,006	\$0.0000000	\$0			
14	Total					\$19,169	0.80%		
15									
16		Charge Calculation							
17	Customer Charge		0		\$806.10	\$0			
18	Demand Charge (0	\$0.00	\$0			•
19	Excess Demand C	harge (\$ per KVA)		0	\$2.04	\$0			
20	Energy Charge (\$	per kWh)		0	\$0.0000000	\$0			
21	Total					\$0	0.00%		
22									
23	Universal Service	Fund Rider							
24	First 833.000 kW	/h		162.324.636	\$0.0024312	\$394,644			
25	All Excess kWh			49,829,820	\$0.0017310	\$86,255			
26	Total Charge			10/020/020	40.00.000	\$480,899	20.02%		
27							-		
28	Advanced Energy	Fund Rider	401		\$0,0000	\$0	0.00%		
29	/ level lood chergy				40.0000	40	0.0070		
30	KWH Tax Rider								
31	First 2,000 kWh			812,126	50.00465	\$3.776			
32	Next 13,000 kW	ь.		4,898,791	\$0.00419	\$20,526			
33	Excess kWh	"							
33 34				203,288,227	\$0.00363	\$737,936	01 708/		
34 35	Total Charge					\$762,239	31.73%		
	Constant Effects	and Deal Demand Bider		646 464 4 - -	#A ARR#	the approximation			
36	energy Efficiency:	and Peak Damand Rider		212,154,458	\$0.0026773	\$568,001	23.65%		
37									
38	Economic Develop	ment Cost Recovery Rider			9.63500%	\$47,617	1.98%		
39	_								
40	Enhanced Service	Reliability Rider			4.58062%	\$22,638	0.94%		
41									
42	gridSMART@ Ride	H.	401		\$1.00	\$401	0.02%		
43									
44	Monongahela Pow	ver Rider		212,154,456	\$0.0001229	\$26,074	1.09%		
45	-			•		• • •			
-v									

Date Prepared: Feb. 28, 2011

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Dats: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original_Updated_Revised Work Paper Reference No(s): WP E-4.1m - WP E-4.1r Schedule E-4.1 Page 16 of 60 Witness Responsible: T. Zelina / A. Moorr

					Current Annualize	nd			
Line No.	Rate Class/ Code Descript (A) (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fue! Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue {N=M+K}	Total Revenue % Increase (0)
	GS-2 General Service - Lov	w) and Creder						_	
1 2	Subtransmission Voltage	N LOAG FACIO							
3	oden an annagion y Grogo								
4	Customer Charge	378		\$272.09	\$102,850	2.86%	\$201,856	198.28%	196.26%
5	Demand Charge (\$ per kW)	÷	788,857	\$1.60	\$1,282,171	35.08%	-\$1,262,171	-100.00%	-100.00%
6	Excess Demand Charge (\$ per KVA	>	83,495	\$3.82	\$318,951	8.86%	-\$148,621	-46.60%	-46.60%
7	Energy Charge (\$ per kWh)	,	213.035,416	\$0,0003512	\$74,918	2.08%	-\$74,818	-100.00%	-100.00%
8	B , B (P)			•					
8	Minimum Energy Charge Calculation	3							
10	Customer Charge	23		\$272.09	\$6,258				
11	Demand Charge (\$ per kW)		3,180	\$1.60	\$5,088				
12	Excess Demand Charge (\$ per KVA))	308	\$3.82	\$1,177				
13	Energy Charge (\$ per kWh)		24,006	\$0.000000	<u>\$0</u>				
14	Total				\$12,523	0.35%	\$6,646	53.07%	53.07%
16									
16	Maximum Energy Charge Calculation								
17	Customer Charge	0	_	\$272.09	\$0				
18	Energy Charge (\$ per kWh)		0	\$0.0324291	\$0	0.000	\$0	0.00%	0.00%
19	Total				\$0	0.00%	2 0	0.00%	0.00%
20									
21 2 2	Universal Service Fund Rider		400 004 000	** ******	\$257,658				
	First 833.000 kWh All Excess kWh		162,324,635 49,829,820	\$0.0015873	\$8.376				
23 24			49,629,620	\$0.0001681	\$266.034	7.39%	\$214,865	80.77%	80.77%
24 29	Total Charge				\$200,034	1.0070	4214,000	VV.1 - /1	00.11/0
26	Advanced Energy Fund Rider	401		\$0.0895	\$36	0.00%	-\$36	-100.00%	-100.00%
27	Advanced chergy Fand Nider	401		40.0040	400	0.0070			
28	KWH Tax Rider								
29	First 2.000 kWh		812,126	\$0,00465	\$3,776				
30	Next 13,000 kWh		4.898.791	\$0.00419	\$20,526				
31	Excess kWh		203,288,227	\$0.00363	\$737,936				
32	Total Charge				\$762,239	21.18%	\$0	0.00%	0.00%
33	-								
34	Energy Efficiency and Peak Demand	f Rider	212,154,456	\$0.0026073	\$553,150	15.37%	\$14,851	2.68%	2.68%
35									
36	Economic Development Cost Recov	ery Rider		8.36693%	\$148,205	4.12%	-\$100,588	-67.87%	-67.87%
37	•								
38	Enhanced Service Reliability Rider			5.49819%	\$97,390	2.71%	-\$74,753	-76.76%	-76.78%
39									
40	gridSMART® Rider				\$0	0.00%	\$401	100.00%	
41					* -	· · · · ·		400 000	
42	Monongahela Power Rider				\$0	0.00%	\$26,074	100.00%	
43 44			240 500 100		PA 200 -0	100.00%	\$1,196,295	-33.25%	
	Total GS-2 Subtransmission	401	213,059,422		\$3,598,367	100.00%	-01,1370,∠8°O	-33.20%	

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original___Updated___Revised Work Paper Reference No(s): WP E-4.10 - WP E-4.1q

Schedule E-4.1 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d		
Line No.	Rate Code (A)	Class/ Descript. (8)	Customer Bills (C)	Sales KW / KWH {D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fueł Cost Revenue (F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Proposed Totał Revenue (I =F+H)
1 2 3	GS-2 Ge Transmission Volt	eneral Service - Low Load Fa age	actor (Proposed QS-2)						
4	Customer Charge	1	58		\$806.10	\$46,754	5.78%		
5	Demand Charge (~	276,467	\$0.00	\$0	0.00%		
6		Charge (\$ per KVA)		96,827	\$2.04	\$197.527	24,42%		
7	Energy Charge (\$			76,223,333	\$0.000000	50	0.00%		
8						*-	•••••		
9	Universal Service	Fund Rider							
10	First 833,000 kV			43.349.135	\$0.0024312	\$105.390			
11	All Excess kWh			32,618,545	\$0.0001731	\$5,646			
12	Total Charge				40.0001101	\$111,037	13.73%		
13	· · · · · · · · · · · · · · · · · · · ·					••••			
14	Advanced Energy	Fund Rider	58		\$0.0000	\$0	0.00%		
15			••		40.0000	••	÷ · ·		
16	KWH Tax Rider								
17	First 2.000 kWh			90.346	\$0.00465	\$420			
18	Next 13,000 kW	Ъ		587.253	\$0.00419	\$2,461			
19	Excess kWh			55,975,876	\$0.00363	\$203,192			
20	Total Charge				•••••••	\$206,072	25.48%		
21	•								
22	Energy Efficiency	and Peak Demand Rider		75,967,680	\$0.0026773	\$203,388	25,14%		
23	••• •				•••	•			
24	Economic Develo	pment Cost Recovery Rider			9.63500%	\$23,536	2.91%		
25									
26	Enhanced Service	e Reliability Rider			4.58062%	\$11,190	1.38%		
27		-							
28	gridSMART® Ride	er	58		\$1.00	\$58	0.01%		
29									
30	Monongahela Pov	ver Rider		75,967,680	\$0.0001229	\$9,336	1.1 5%		
31	-						-		
32	Total GS-2 Transi	mis sion	58	76,223,333		\$808,899	100.00%	\$0	\$808,89

Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1c - WP E-4.1c

Schedule E-4.1 Page 18 of 60 Witness Responsible: T. Zelina / A. Moorc

						Current Annualize	d			
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales Kw / KwH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M=F-K)	% increase in Revenue Less Fuel Cost Revenue (N=M+K)	Totai Revenue % Increase (O)
1	GS-2 G	eneral Service - Low Load Facto	э г							
2	Transmission Vol									
3										
4	Customer Charge	Ð	58		\$534.63	\$31,009	2.35%	\$15,745	50.78%	50.78%
5	Demand Charge	(\$ per kW)		276,467	\$1.12	\$309,643	23.49%	-\$309,643	-100.00%	-100.00%
6	Excess Demand	Charge (\$ per KVA)		96,827	\$3.82	\$369,879	28.06%	-\$172,352	-46.60%	-46.60%
7	Energy Charge (S	\$ per kWh)		76,223,333	\$0.0003512	\$26,770	2.03%	-\$26,770	-100.00%	-100.00%
8										
9	Universal Service									
10	First 833,000 k			43,349,135	\$0.0015873	\$68,808				
11	All Excess kWF	1 ·		32,618,545	\$0.0001681	\$5,483			· · · · · · · · · · · · · · · · · · ·	
12 13	Total Charge			-		\$74,291	5.64%	\$38.745	49.46%	49.48%
14	Advanced Energy	- Event Older	58		** ****	\$5	0.00%	-\$5	-100.00%	-100.00%
15	Advanced cherg	y Fund Rober	00		\$0.0895	23	0.00 %	-20	-100.00%	-100.0074
16	KWH Tax Rider									
17	First 2.000 kWh	b		90,346	\$0.00465	\$420				
18	Next 13,000 kV			587,253	\$0.00419	\$2,461				
19	Excess kWh			55,975,676	\$0.00363	\$203,192				
20	Total Charge					\$206,072	15.64%	\$0	0.00%	0.00%
21	Ū.									
22	Energy Efficiency	y and Peak Demand Rider		75,967, 680	\$0.0026073	\$198,071	15.03%	\$5,318	2.68%	2.68%
23										
24	Economic Develo	opment Cost Recovery Rider			8.36693%	\$61,689	4.68%	-\$38,153	-61.85%	-61.85%
25										
26	Enhanced Servic	e Reliability Rider			5.49819%	\$40,538	3.08%	-\$29,349	-72.40%	-72.40%
27							6 00 m		400.000	100 000
28 29	gridSMART® Ric	Jer					0.00%	\$58	100.00%	100.00%
29 30	Mononganeta Po	wer Dider					0.00%	\$9,336	100.00%	100.00%
30	wononganesa Po						0.00%	3 2,330	100.00%	100.0070
32	Total GS-2 Trans	mission	58	76,223,333		\$1,317,967	100.00%	-\$509,069	-38.63%	-38.63%
				10,220,000		100,110,100	100.0070	-44.003	-1010070	-00/00//8

Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original__Updated__Revised Work Paper Reference No(s): WP E-4.1r Schedule E-4.1 Page 19 of 60 Witness Responsible: T. Zelina / A. Moore

				····	·····	Test Year Propose	ld		
Line No.	Rate Code (A)	Class/ Descript, (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I =F+H)
1	GS-2	GS-2 Energy Storage Provision							
2	Tariff 223								
3									
4	Distribution Cl								
5	Customer Cha	arge:							
6	Bills		216		\$7.95	\$1,717	2.75%		
7	Energy Charg	e:							
8	On-Peak			504,725	\$0.0146800	\$7,409			
9	Off-Peak			1,814,052	\$0.0146800	\$26,630			
10	Total					\$34,040	54.45%		
11									
12		vice Fund Rider				1 .			
13	First 833,00			2,318,777	\$0.0024312	\$5,637			
14	All Excess k	Wh		0	\$0.0001731	\$0			
15	Total Charge					\$5,637	9.02%		
16									
17	Advanced Ene	ergy Fund Rider	216		\$0.0000	\$0	0.00%		
18									
19	KWH Tax Rid								
20	First 2,000 I			328,109	\$0.00465	\$1,526			
21	Next 13.000			1,028,321	\$0.00419	\$4,309			
22	Excess kWr	1		962,347	\$0.00363	\$3,493			
23	Total Charge					\$9,328	1 4.92%		
24	F F / P - -	en and Back Barris Print		0.040 777		***	a co1/		
25	Energy Emicie	ncy and Peak Demand Rider		2,318,777	\$0.0026773	\$6,208	9.93%		
26	mie Der	allowed Oracl Ocean and Distance			+ 007000	FD 440			
27	Economic Dev	elopment Cost Recovery Rider			9.63500%	\$3,445	5.51%		
28 29	Enhanced Pro	nico Bolizbility Ridor			4 500000	\$1.638	9 000/		
	Ennanced Sei	vice Reliability Rider			4.58062%	\$1,038	2.62%		
30 31		Pidar	216		e4 ee	£340	0.96%		
31 32	gridSMART®	LYRAI	216		\$1.00	\$216	0.35%		
32 33	Monongahela	Denvos Didez		0.040 777	00 0004 000	\$285	0.46%		
33 34	workinganera	rowst riller		2,318,777	\$0.0001229	\$ 20 \$	0.40%		
34 35	Total GS-2 En	orm Siomon		0.040 777		#CO E4 4	100.00%	\$0	\$62,514
32	TOTAL CO-2 EP	a gy aiolage	216	2,318,777		\$62,514	100.00%		402,314

Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1r

Schedule E-4.1 Page 20 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualize	d	_		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Billis (C)	Sales KW / KWH (D)	Mosi Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Loss Gas or Fue) Costs (M=F-K)	% Increase in Revenue Less Fuel Coat Revenue (N=M+K)	Total Revenue % increase (Q)
1		2 Energy Storage Provision						_		
2 3	Tariff 223									
4	Distribution Charge	5								
5	Customer Charge:	-								
6	Bills		216		\$2.96	5639	1.90%	\$1,078	168.58%	168.58%
7	Energy Charge:									100.0010
8	On-Peak			504,725	\$0.0227282	\$11,471				
9	Off-Peak			1,814,052	\$0.0003512	\$637				
10	Total					\$12,109	36.05%	\$21,931	181.12%	181.12%
11										
12	Universal Service F									
13	First 833,000 kW?	1		2,318,777	\$0.0015873	\$3,681				
14	All Excess kWh			0	\$0.0001681	\$0		•		
15 16	Total Charge					\$3,681	10.96%	\$1,957	53.17%	53.17%
17 18	Advanced Energy F	fund Rider	216		\$0.0895	\$19	0.06%	-\$19	-100.00%	-100 .00%
19	KWH Tax Rider									
20	First 2,000 kWh			328,109	\$0.00465	\$1,526				
21	Next 13,000 kWh			1.028.321	\$0.004 0 5 \$0.00419	\$4,309				
22	Excess kWh			962,347	\$0.00363	\$3,493				
23	Total Charge				40.00000	\$9,328	27,77%	\$0	0.00%	0.00%
24						401020	210110	**	0.0010	0.00 %
25 26	Energy Efficiency a	nd Peak Demand Rider		2,318,777	\$0.0026073	\$6,046	18.00%	\$162	2.68%	2.68%
27 28	Economic Developr	nent Cost Recovery Rider			8.3 669 3%	\$1,067	3.18%	\$2 ,379	223.00%	223.00%
29 30	Enhanced Service F	Reliability Rider			5.49819%	\$701	2.09%	\$937	133.68%	133.68%
31 32	gridSMART® Rider					\$0	0.00%	\$216	100.00%	100.00%
33 34	Monongahela Powe	a Rider				\$0	0.00%	\$285	100.00%	100.00%
36	Total GS-2 Energy	Storage	216	2,318,777		\$33,589	100.00%	\$28,925	86.12%	86.12%

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: Doriginal_Updated_Revised Work Paper Reference No(s): WP E-4.1s

Schedule E-4.1 Page 21 of 60 Witness Responsible: T. Zelina / A. Moore

				Saies KW / KWH (D)	· · · ·	Test Year Propose	đ	-	Proposed Tota) Revenue (I≖F+H)
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Billis (C)		Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	
1	GS-2 Ger	ieral Service - Low Load Fa	nctor - Athletic Fields					-	
2	Tariff: 214								
3									
4	Customer Charge:		4,465		\$12.00	\$53,580	19.33%		
5	Energy Charge			8,028,112	\$0.0146800	\$117,853	42.51%		
6	- · ·								
7	Universal Service F	und Rider							
8	First 833,000 kW	h		8,028,112	\$0.0024312	\$19,518			
9	All Excess kWh			0	\$0.0001731	\$0			
10	Total Charge					\$19,518	7.04%		
11									
12	Advanced Energy F	Fund Rider	4,465		\$0.0000	\$0	0.00%		-
13									
14 15	KWH Tax Rider First 2.000 kWh	-		0.004.407	60 00 107	\$17.024			
16	Next 13.000 kWh			3,661,107 3,775,161	\$0.00465 \$0.00419	\$17,024 \$15,818			
17	Excess kWh			591,844	\$0.00419 \$0.00363	\$2,148			
18	Total Charge			391,044	\$0.00565	\$34,990	12.62%		
19	rola charge					404,880	12,0270		
20	Energy Efficiency a	ind Peak Demand Rider		8.028,112	\$0.0026773	\$21,494	7.75%		
21				0,020,112	••••••	•~•••	1		
22	Economic Develop	ment Cost Recovery Rider			9.63500%	\$16,518	5.96%		
23									
24	Enhanced Service	Reliability Rider			4.58062%	\$7,853	2.83%		
25									
26	gridSMART® Rider	•	4,465		\$1.00	\$4,465	1.61%		
27	-								
28	Monongahela Powe	er Rider		8,028,112	\$0.0001229	\$987	0.36%		
29									
30	Total GS-2 Athletic	Fields	4,465	8,028,112		\$277,257	100.00%	\$0	\$277,257

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original___Updated___Revised Work Paper Reference No(s): WP E-4.1s

Schedule E-4.1 Page 22 of 60 Witness Responsible: T. Zelina / A. Moore

					Current Annualize	d	_		Total Revenue
Line No.	Code De	class/ Customer script. Bills (6) (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Rovenue Loss Gas or Fuel Cost Revenue _(K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	
1	GS-2 General Servic	e - Low Load Factor - Athletic Fields	5						
2	Tariff: 214								
3									
4	Customer Charge:	4,465		\$17.23	\$76,932	28.32%	-\$23,352	-30.35%	-30.35%
5	Energy Charge		8,028,112	\$0.0125784	\$100,981	37.17%	\$16,872	16.71%	16.71%
7	Universal Service Fund Rider								
A A	First 833,000 kWh		8,028,112	\$0.0015873	\$12,743				
9	All Excess kWh		0,020,112	\$0.0001681	\$0				
10	Total Charge		Ū.	\$0.000 TOD T	\$12,743	4.69%	\$6,775	53.17%	53.17%
11					••••••		•••••		
12	Advanced Energy Fund Rider	4,465		\$0.0895	\$400	0.15%	-\$400	-100.00%	-100.00%
13	r								
14	KWH Tax Rider								
15	First 2,000 kWh		3,661,107	\$0.00485	\$17,024				
16 [°] 17	Next 13,000 kWh Excess kWh		3,775,161	\$0.00419	\$15,818				
18	Total Charge		591,844	\$0.00363	\$2,148 \$34,990	12.88%	<i>30</i>	0.00%	0.00%
19	iotal Gilarge				934,890	12.00 %	30	0.00 %	0.00%
20	Energy Efficiency and Peak D	emand Rider	8.028.112	\$0.0026073	\$20,932	7.71%	\$562	2.68%	2.68%
21	······································			00.0022010					
22	Economic Development Cost I	Recovery Rider		8.36693%	\$14,886	5.48%	\$1,632	10.96%	10.96%
23									
24	Enhanced Service Reliability F	Rider		5.49819%	\$9,782	3.60%	-\$1,929	-19.72%	-19.72%
25							.		
26 27	gridSMART® Rider				\$0	0.00%	\$4,465	100.00%	100.00%
27	Monongahela Power Rider				\$0	0.00%	\$987	100.00%	100.00%
20	mananganaki untur 1908:				30	V.VV76	470/	100.0076	100.00 %
30	Total GS-2 Athletic Fields	4.465	8,028,112		\$271,645	100.00%	\$5,611	2.07%	2.07%

Date: 3 MOS Actual & 9 MOS Estimated Type of Filing: >Original___Updated____Revised Work Paper Reference No(s): WP E-4.1t

Schedule E-4.1 Page 23 of 60 Witness Responsible: T. Zelina / A. Moore

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						Test Year Propose	d	_	
Lín e No	Rate Code (A)	Ciass/ Descript. (8)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gaa or Fuel Cost Revenue <u>(</u> F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I =F++1)
1	GS-TOD	General Service - Time-of-Day							
2 3	Distribution	Charrie							
3	Customer C								
4 5	Blis	marge:	8,926		\$12.85	\$114.699	3.91%		
5 6	Energy Cha		8,920		\$12.85	3114,033	3.91%		
7	On-Peak	nge.		45,538,024	\$0.0146800	\$668,498			
8	Off-Peak			45,536,024 62,034,971	\$0.0146800 \$0.0146800	\$910,673			
9	Total			62,034,971	\$U.01468UU	\$1,579,172	53.84%		
10	O.C.					φ1,07 0 ,172	00.04%		
11	Liniversal S	ervice Fund Rider							
12	First 833.			107.572.995	\$0.0024312	\$261,531			
13	All Excess			0,072,000	\$0.0001731	\$0			
14	Total Charg			v	\$0.000 H 31	\$261.531	8.92%		
15	recur entrig					QE01 ,007	0.02 /0		
16	Advanced F	Energy Fund Rider	8,926		\$0,0000	\$0	0.00%		
17			0,020		\$5.0000	¥-	1.0075		
18	KWH Tax R	lider							
19	First 2,00			14,225,928	\$0.00465	\$66,151			
20	Next 13.0			38,934,639	\$0.00419	\$163,136			
21	Excess ki			54,412,428	\$0.00363	\$197,517			
22	Total Charg	1 0				\$426,804	14.55%		
23						• ••••			
24	Energy Effic	ciency and Peak Demand Rider		107,572,995	\$0.0026773	\$288,005	9.82%		
25		-			•				
26	Economic D	evelopment Cost Recovery Rider			9.63500%	\$163,204	5.56%		
27									
28	Enhanced S	Service Reliability Rider			4.58062%	\$77,590	2.65%		
29									
30	gnidSMART	® Rider	8,926		\$1.00	\$8,926	0.30%		
31									
32	Monongahe	la Power Rider		107,572,995	\$0.0001229	\$13,221	0.45%		
33		_							
34	Total GS-T(סל	8,926	107,572,995		\$2,933,152	100.00%	\$0	\$2,933,152

Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original_Updated_Revised Work Paper Reference No(s): WP E-4.1

Schedule E-4.1 Page 24 of 60 Witness Responsible: T. Zelina / A. Moore

		<u> </u>				Current Annualize	d			
Lìme No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Loss Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Costs (M=F-K)	% increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase (0)
1	GS-TOD Ger	neral Service - Time-of-Day								
2										
3 4	Distribution Charge Customer Charge:									
5	Bills		8.926		\$23.15	\$206.637	8,92%	-\$91,938	-44,48%	-44,49%
6	Energy Charge:		0,920		-p23.15	\$200,037	0.92%	-091,930	-44,48%	-44.4876
7	On-Peak			45,538,024	\$0.0227282	\$1,034,997				
8	Off-Peak			62,034,971	\$0.0003512	\$21,787				
9	Total			02,004,071	\$0.0000012	\$1,056,784	45.60%	\$522,388	49,43%	49.43%
10						41,000,104	1010070	4022 ,000	40,4070	
11	Universal Service	Fund Rider								
12	First 833,000 kW	Ah .		107,572,995	\$0,0015873	\$170.751				
13	All Excess kWh			0	\$0,0001681	\$0				
14	Total Charge					\$170,751	7.37%	\$90,781	53.17%	53.17%
15										
16	Advanced Energy	Fund Rider	8,926		\$0.0895	\$799	0.03%	-\$799	+100.00%	-100.00%
17										
18	KWH Tax Rider									
19	First 2,000 kWh			14,225,928	50.00465	\$66,151				
20	Next 13,000 kWł	1		38,934,639	\$0.00419	\$163,136				
21	Excess kWh			54,412,428	\$0.00363	\$197,517	10 1001			~ ~~~
22 23	Total Charge					\$426,804	18.42%	\$0	0.00%	0.00%
23 24	Enargy Cfficianay	and Peak Demand Rider		407 570 00F	\$0.0026073	\$280,475	12.10%	\$7.530	2.68%	2.68%
25	chergy chickency a	and Peak Demand Fuggr		107,572,995	30.0020075	\$200,470	12.10%	\$1,030	2,00%	2.00 %
26	Economic Develor	ment Cost Recovery Rider			8.36693%	\$105,710	4.56%	\$57,495	54,39%	54. 39%
27					0.0000076	4100,11 0	7.00 /0	401, 1 80	um, 2070	JT.JJ770
28	Enhanced Service	Retiability Rider			5,49819%	\$69,465	3.00%	\$8,124	11.70%	11.70%
29					2					
30	gridSMART® Ride	r				\$0	0.00%	\$8,925	100.00%	100.00%
31	-									
32	Mononganela Pow	ver Rider				\$0	0.00%	\$13,221	100.00%	100.00%
33										
30	Total GS-TOD		8,926	107.572,995		\$2,317,424	100.00%	\$615.728	26.57%	26.57%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original___Updated___Revised Work Paper Reference No(\$): WP E-4.1u - WP E-4.1v

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Schedule E-4.1 Page 25 of 60 Witness Responsible: T. Zelina / A. Moore

		··· ·····				Test Year Propose	d		_
Line No.	Rate Gode (A)	Class/ Descript. (B)	Customer Bills (C)	Saləs KW i KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I=F+H)
1	GS-3 Ge	aneral Service - Medium/High Lo	ad Factor (Propose	d GS-2)					
2	Secondary Voltag	e		,					
3									
4,	Distribution Charg	95							
5	Customer Charge		61,453		\$12.85	\$789,671	1.26%		
6	Demand Charge (\$ per kW)		5,943,911	\$4.90	\$29,125,164	46.30%		
7	Excess Demand C	Charge (per KVA)		101,067	\$2.04	\$206,177	0.33%		
8	Energy Charge (\$	per kWh)		2,784,572,118	\$0.0000000	\$0	0.00%		
9									
10		Charge Calculation							
11	Customer Charge		386		\$12.85	\$4,960			
12	Demand Charge (\$perkW)		14 635	\$4.90	\$71,712			
13	Excess Demand C	Charge (\$ per KVA)		8,369	\$2.04	\$17,073			
14	Energy Charge (\$	per kWh)		666,026	\$0.0000000	\$0			
15	Total				-	\$93,744	0.15%		
16									
17	Maximum Energy	Charge Calculation							
18	Customer Charge		13		\$12.85	\$167			
19	Demand Charge (\$ per kW)		417	\$4.90	\$2.043			
20	Excess Demand C	Charge (\$ per KVA)		1,118	\$2.04	\$2,281			
21	Energy Charge (\$			41 512	\$0.0000000	\$0			
22	Total					\$4,491	0.01%		
23						• .,			
24	Alternate Feed Se	arvice Charges	6,000		\$3.81	\$22,860	0.04%		
25						+,			
26	Universal Service	Fund Rider							
27	First 833.000 kV			2,761,584,389	\$0.0024312	\$6,713,964			
28	All Excess kWh			24.010.325	\$0.0001731	\$4,156			
29	Total Charge			24,010,020	WU.UUU 1101	\$6,718,120	10.68%		
30	ruaronarge					40,710,120	10.0070		
31	Advanced Energy	Fund Rider	61,852		\$0.0000	\$0	0.00%		
32	Advances Energy		01,004		40.0000	ψυ	0.0070		
33	KWH Tax Rider								
34	First 2,000 kWh			123,519,331	\$0.00465	\$574,365			
35	Next 13,000 kW			625, 128, 172	\$0.00403	\$2,619,287			
36	Excess kWh			2,023,789,584	\$0.00363	\$7,346,356			
37	Total Charge			2,020,100,004	\$0.00303	\$10,540,008	16.75%		
38	i utar sinarge					φ10,040,000	10.1070		
39	Enanty Efficiency	and Peak Demand Rider		2,784,613,630	\$0.0038450	\$10,706,839	17.02%		
40	Elleiðk Elliciendá			210401020	φ 0.003 0430	\$10,100,005	11.0275		
41	Economic Develo	pment Cost Recovery Rider			0.02500%	80 049 807	4.63%		
42	Scotlowic Develo	hinerik Oraci vertekel à L'IORI			9.63500%	\$2,913,827	4,0370		
43	Echopand Convict	Polichilly Didor			4.58062%	\$1,385,276	2.20%		
43 44	Enhanced Service				4.00002%	\$1,000,270	2.2078		
44 45			61,852		£4.00	664 050	0.10%		
45 46	gridSMART® Ride	21	01,052		\$1.00	\$61,852	0.1076		
46 47	Heneralais D	vor Bidos		0 705 604 744	60.0004000	£940.950	0 6 49/		
	Monongahela Pov			2,785,594,714	\$0.0001229	\$342,350	0.54%		
48		don.	61 950	0 705 070 070		#23 D40 032	400.000/		\$62 010 270
49	Total GS-3 Secon	uery	61,852	2,785,279,656		\$62,910,379	100.00%	\$0	\$62,910,379

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1u - WP E-4.1v

Schedule E-4.1 Page 26 of 60 Witness Responsible: T. Zelina / A. Moore

					Current Annualiz	ed				
Ļine No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M≕F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenus %. Increase (O)
1	GS-3 Gène	ral Service - Medium/High L	oad Eactor							
.2	Secondary Voltage	nal de vice - Neodonarii gri c	OBO T BCIDI							
3										
4	Distribution Charges									
5	Customer Charge		61,453		\$22.91	\$1,407,888	2.64%	-\$618.217	-43.91%	-43.91%
6	Demand Charge (\$ p			5,937,098	\$4.13	\$24,520,215	45.91%	\$4,604,949	18.78%	18.78%
7	Excess Demand Cha			101,067	\$3.82	\$386,076	0.72%	-\$179,899	-46.60%	-46.60%
8	Елегду Charge (\$ ре	er kWh}		2,784,572,118	\$0.0003512	\$977,942	1.83%	-\$977,942	-100.00%	-100.00%
9										
10 11	Minimum Energy Ch Customer Charge	arge Calculation	386		\$22.91	\$6,843				
12	Demand Charge (\$ g	nor MAG	300	14,635	\$4.13					
13	Excess Demand Cha			8,369	\$3.82	\$31,970				
14	Energy Charge (\$ pe		-	666,026	\$0.0000000	\$0 \$0				
15	Total			000,020	40.0000000	\$101,255	0.19%	-\$7,511	-7.42%	-7.42%
16										
17	Maximum Energy Cl	harge Calculation								
18	Customer Charge	-	13		\$22.91	\$298				
19	Energy Charge (\$ pe	ər kWh)		41,512	\$0.0416897	<u>\$1,731</u>				
20	Total					\$2,028	0.00%	\$2,463	121.40%	121.40%
21								• • • • •		
22	Alternate Feed Servi	ice Charges	6.000		\$3.07	\$18,420	0.03%	\$4,440	24.10%	24.10%
23										
24 25	Universal Service Fu First 833,000 kWh			0 704 504 000		#4.000 400				
25 26	All Excess kWh			2,761,584,389 24,010,325	\$0.0015873 \$0.0001681	\$4,383,463 \$4,036				
27	Total Charge			24,010,020	30.0001061	\$4,387,499	8.22%	\$2,330,621	53,12%	53.12%
28	Total Onlarge					44,001,480	0.22.10		00.12.0	00.1279
29	Advanced Energy Fu	und Rider	61,852		\$0,0895	\$5,536	0.01%	-\$5,536	-100,00%	-100.00%
30					+			-		
31	KWH Tax Rider									
32	First 2,000 kWh			123,519,331	\$0.00465	\$574,365			-	
33	Next 13,000 kWh			625,128,172	\$0,00419	\$2,619,287				
34	Excess kWh			2,023,789.584	\$0.00363	\$7,346,356				
35	Total Charge					\$10,540,008	19.73%	\$0	0.00%	0.00%
36	-							PO 440 F40	ATT 4704	47 470/
37 38	Energy Efficiency an	d Peak Demand Rider		2,784,613,630	\$0.0026073	\$7,260,323	13.59%	\$3,446,516	47.47%	47.47%
39 39	Economia Dovolcom	ent Cost Recovery Rider			8.36693%	\$2,293,696	4.29%	\$620.132	27.04%	27.0 4%
40	Economic Developm	IERIC COST RECOVERY MORE			8.3009376	92,283,090	4.20%	9020, 13Z	21.0476	27.0476
41	Enhanced Service R	tellahility Rider			5.49819%	\$1,507,264	2.82%	-5121,988	-8.09%	-8.09%
42	TIERRINAAN ABIANA U				0.4001076	\$1,997,20 4	2.95/0	÷	<i>4.44</i>	
43	gridSMART® Rider					\$0	0.00%	\$61,852	100.00%	100.00%
44	······································					•••				
45	Monongahela Power	r Rider				\$0	0.00%	\$342,350	100.00%	100.00%
46										
47	Total GS-3 Seconda	ιry	61,852	2,785,279,656		\$53,408,150	100.00%	\$9,502,229	17.79%	17.79%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s); WP E-4.1w - WP E-4.1x

Schedule E-4.1 Page 27 of 60 Witness Responsible: T. Zelina / A. Moore

					Test Year Propose	_		
Line No.	Rate Class/ Code Descript. (A) (B)	Customer Bills (C)	Sales KWi / KWiH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposec Total Revenue (I =F+H)
1	GS-3 General Service - Medium/High Lo	ad Factor (Propose	ed GS-2)					
2 3	Primary Voltage							
4	Distribution Charges							
5	Customer Charge	3,943		\$52.60	\$207,402	0.43%		
6	Demand Charge (\$ per kW)	3,242	5,227,063	\$3.81	\$19,915,110	41.56%		
7	Excess Demand Charge (per KVA)		112,111	\$2.04	\$228,706	0.48%		
8	Energy Charge (\$ per kWh)		2.620,948,363	\$0.0000000	\$0	0.00%		
9			2.020,940,203	\$0.000000	φU	0.00%		
9 10	Minimum Energy Charge Calculation							
11	Customer Charge	60		\$52.60	\$3,156			
12	Demand Charge (\$ per kW)	50	33,263	\$3.81	\$126,732			
13	Excess Demand Charge (\$ per KVA)		2.288	\$3.81	\$4,668			
			,					
14	Energy Charge (\$ per kWh)		1,757,287	\$0.000000	\$0	0.000/		
15	Total				\$134,556	0.28%		
16								
17	Maximum Energy Charge Calculation							
18	Customer Charge	2		\$52.60	\$105			
19	Demand Charge (\$ per kW)		332	\$3.81	\$1,265			
20	Excess Demand Charge (\$ per KVA)		463	\$2.04	\$945			
21	Energy Charge (\$ per kWh)		35,726	\$0.0000000	\$0			
22	Total				\$2,315	0.00%		
23								
24	Alternate Feed Service Charges	62,700		\$3.81	\$245,523	0.51%		
25								
26	Universal Service Fund Rider							
27	First 833.000 kWh		1,777,896,569	\$0,0024312	\$4,322,422			
28	All Excess kWh		844,284,872	\$0.0001731	\$146,146			
29	Total Charge			40.0001101	\$4,468,568	9.32%		
30	lotal antigo				41,100,000	0.0210		
31	Advanced Energy Fund Rider	4,005		\$0.0000	\$0	0.00%		
32	Advanced Energy Fond Fider	4,000		30.0000	.eU	0.0070		
33	KWH Tax Rider							
34			0.000 700	** ****	638 DC4			
	First 2,000 kWh		8,357,792	\$0.00465	\$38,864			
35	Next 13,000 kWh		53,040,762	\$0.00419	\$222,241			
36	Excess kWh		2,507,615,742	\$0.00363	\$9,102,645			
37	Total Charge				\$9,363,750	19.54%		
38								
39	Energy Efficiency and Peak Demand Rider		2.622,181,441	\$0.0038450	\$10,082,288	21.04%		
40					····			
41	Economic Development Cost Recovery Rider			9.63500%	\$1,997,683	4.17%		
42	.							-
43	Enhanced Service Reliability Rider			4.58062%	\$949,728	1.98%		
44								
45	gridSMART® Rider	4,005		\$1.00	\$4,005	0.01%		
46	•							
47	Monongahela Power Rider		2,622,181,441	\$0.0001229	\$322,266	0.67%		
48	-							
							SO	\$47,921,8

Data: 3 MOS Actual & 9 MOS Estimated Type of Fäing: ► Original__Updated__Revised Work Paper Reference No(s); WP E-4.1w - WP E-4.1»

Schedule E-4.1 Page 28 of 60 Witness Responsible: T. Zelina / A. Noore

No. C 1 GS 2 Print 3	aximum Energy Charge Calculation	Customer Bills (C) 3.943 60	Sales KW / KWH (D) 5,215,105 112,111 2,620,948,363 33,263 2,288 1,757,287	Most Current Rate (J) \$95.47 \$3.31 \$3.62 \$0.0003512 \$95.47 \$3.31 \$3.82 \$0.0000003	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K) \$376,438 \$17,261,998 \$428,264 \$920,477 \$5,728 \$110,101 \$8,740 <u>\$0</u> \$124,569	% of Revenue to Total (L) 0.91% 41.94% 1.04% 2.24%	Increase Less Gas or Fuel Costs (M=F-K) -\$169,036 \$2,653,112 -\$199,558 -\$920,477	% Increase in Revenue Less Fuel Cost Revenue (N=M+K) -44.90% 15.37% -46.60% -100.00%	Total Revenue % increase (D) -44.90% 15.37% -46.60% -100.00%
2 Prir 3 January 4 Diss 5 Quis 6 Der 7 Exc 8 Ence 9 10 11 Cus 12 Der 13 Exc 15 Tot 16 Int 20 Ence 21 Ence 22 After 23 Unit 24 Unit 25 F 26 A	imany Voltage sithution Charges ustomer Charge emand Charge (\$ per kW) ccess Demand Charge (per KVA) hergy Charge (\$ per kWh) inimum Energy Charge Calculation ustomer Charge smand Charge (\$ per kWh) iccess Demand Charge (\$ per kVA) wergy Charge (\$ per kWh) otal aximum Energy Charge Calculation ustomer Charge	3.943 60	112,111 2,620,948,363 33,263 2,288	\$3.31 \$3.82 \$0.0003512 \$95.47 \$3.31 \$3.82	\$17,261,998 \$428,264 \$920,477 \$5,728 \$110,101 \$8,740 \$0	41.94% 1.04% 2.24%	\$2,853,112 -\$199,558 -\$920,477	15.37% -46.60% -100.00%	15.37%
3 4 Diss 5 Cuts 6 Den 7 Excel 9 10 10 Min 11 Cuts 12 Der 13 Excel 14 Ensel 16 Tot 17 Mail 18 Cuts 20 Tot 21 22 22 Altre 23 Unit 25 F 26 A	imany Voltage stribution Charges ustomer Charge emand Charge (\$ per kW) ccess Demand Charge (per KVA) hergy Charge (\$ per kWh) inimum Energy Charge Calculation ustomer Charge amand Charge (\$ per kW) ccess Demand Charge (\$ per KVA) hergy Charge (\$ per kWh) http://www.communication ustomer Charge	3.943 60	112,111 2,620,948,363 33,263 2,288	\$3.31 \$3.82 \$0.0003512 \$95.47 \$3.31 \$3.82	\$17,261,998 \$428,264 \$920,477 \$5,728 \$110,101 \$8,740 \$0	41.94% 1.04% 2.24%	\$2,853,112 -\$199,558 -\$920,477	15.37% -46.60% -100.00%	15.37% - 46.6 0%
4 Diss 5 Curs 6 Der 7 Exco 8 Enne 9 10 11 Curs 12 Der 13 Exco 14 Enne 15 Tot 16 17 20 Attra 20 Tot 21 22 22 Attra 23 Unit 24 Unit 25 Fri 26 A	ustomer Charge emand Charge (\$ per kW) ccess Demand Charge (per KVA) hergy Charge (\$ per kWh) inimum Energy Charge Calculation ustomer Charge amand Charge (\$ per kW) ccess Demand Charge (\$ per kVA) hergy Charge (\$ per kWh) hergy Charge (\$ per kWh) http: aximum Energy Charge Calculation ustomer Charge	60	112,111 2,620,948,363 33,263 2,288	\$3.31 \$3.82 \$0.0003512 \$95.47 \$3.31 \$3.82	\$17,261,998 \$428,264 \$920,477 \$5,728 \$110,101 \$8,740 \$0	41.94% 1.04% 2.24%	\$2,853,112 -\$199,558 -\$920,477	15.37% -46.60% -100.00%	15.37% - 46.6 0%
5 Cus 6 Der 7 Exc 8 Ence 9 10 11 Cus 12 Der 13 Exc 14 Ence 16 17 17 Mai 20 Tot 21 22 22 Atter 23 Unit 25 F 26 A	ustomer Charge emand Charge (\$ per kW) ccess Demand Charge (per KVA) hergy Charge (\$ per kWh) inimum Energy Charge Calculation ustomer Charge amand Charge (\$ per kW) ccess Demand Charge (\$ per kVA) hergy Charge (\$ per kWh) hergy Charge (\$ per kWh) http: aximum Energy Charge Calculation ustomer Charge	60	112,111 2,620,948,363 33,263 2,288	\$3.31 \$3.82 \$0.0003512 \$95.47 \$3.31 \$3.82	\$17,261,998 \$428,264 \$920,477 \$5,728 \$110,101 \$8,740 \$0	41.94% 1.04% 2.24%	\$2,853,112 -\$199,558 -\$920,477	15.37% -46.60% -100.00%	15.37% - 46.6 0%
6 Der 7 Exc 8 Enne 9 10 Min 11 Cus 12 12 Der 13 Exc 13 Exc 14 Ene 15 Tot 16 17 Ma: 19 Ene 20 Tot 21 22 Altre 23 24 Unit 25 F 26 A	emand Charge (\$ per kW) ccess Demand Charge (per KVA) hergy Charge (\$ per kWh) inimum Energy Charge Calculation ustomer Charge amand Charge (\$ per kW) ccess Demand Charge (\$ per KVA) hergy Charge (\$ per kWh) http://www.charge Calculation ustomer Charge	60	112,111 2,620,948,363 33,263 2,288	\$3.31 \$3.82 \$0.0003512 \$95.47 \$3.31 \$3.82	\$17,261,998 \$428,264 \$920,477 \$5,728 \$110,101 \$8,740 \$0	41.94% 1.04% 2.24%	\$2,853,112 -\$199,558 -\$920,477	15.37% -46.60% -100.00%	15.37% - 46.6 0%
7 Exc 9 10 Min 11 Cus 11 12 Der 13 Exc 13 Exc 15 Tot 16 17 Mai 19 Ene 20 Tot 21 22 After 23 Unit 25 F 26 A	Access Demand Charge (par KVA) hergy Charge (\$ per kWh) ustomer Charge smand Charge (\$ per kW) access Demand Charge (\$ per kW) access Demand Charge (\$ per kVA) hergy Charge (\$ per kWh) herd aximum Energy Charge Celculation ustomer Charge		112,111 2,620,948,363 33,263 2,288	\$3.82 \$0.0003512 \$95.47 \$3.31 \$3.82	\$428,264 \$920,477 \$5,728 \$110,101 \$8,740 \$0	1.04% 2.24%	-\$199,558 -\$920,477	-46.60% -100.00%	-46.60%
8 Ene 9 10 Min 11 Cus 12 12 Der 13 Exc 13 Exc 14 Ene 16 17 Ma: 18 Cus 19 Ene 20 Tot 21 22 Altre 23 Unit 25 Fi 26 A 26 A 26 A	inimum Energy Charge (\$ per kWh) inimum Energy Charge Calculation ustomer Charge gmand Charge (\$ per kW) ccess Demand Charge (\$ per KVA) vergy Charge (\$ per kWh) otel aximum Energy Charge Celculation ustomer Charge		2,620,948,363 33,263 2,288	\$0.0003512 \$95.47 \$3.31 \$3.82	\$920,477 \$5,728 \$110,101 \$8,740 \$0	2.24%	-\$920,477	-100.00%	
9 10 Min 11 Cus 12 Devi 13 Exc 14 Ense 15 Tot 16 17 Ma 18 Cus 19 Ense 20 Tot 21 22 Alte 23 24 Uni 25 F 26 A	inimum Energy Charge Calculation ustomer Charge amand Charge (\$ per kW) ceess Demand Charge (\$ per KVA) nergy Charge (\$ per kWh) stal aximum Energy Charge Calculation ustomer Charge		33,2 63 2,288	\$95.47 \$3.31 \$3.82	\$5,728 \$110,101 \$8,740 \$0				-100.00%
10 Min 11 Cus 12 Der 13 Exc 14 Ense 15 Tot 16 17 17 Mai 18 Cus 20 Tot 21 22 22 After 23 24 24 Unit 25 F 26 A	ustomer Charge amand Charge (\$ per kW) ccess Demand Charge (\$ per KVA) hergy Charge (\$ per kWh) otel aximum Energy Charge Calculation ustomer Charge		2,288	\$3.31 \$3.82	\$110,101 \$8,740 \$0_	0.30%	50 087		
11 Cus 12 Der 13 Exc 14 Ene 15 Tot 16 If 17 Max 19 Ene 20 Tot 21 22 22 After 23 Cus 24 Unit 25 F 26 A	ustomer Charge amand Charge (\$ per kW) ccess Demand Charge (\$ per KVA) hergy Charge (\$ per kWh) otel aximum Energy Charge Calculation ustomer Charge		2,288	\$3.31 \$3.82	\$110,101 \$8,740 \$0_	0.30%	50 DR7		
12 Der 13 Exo 14 Ense 15 Tot 16 17 17 Mai 19 Ense 20 Tot 21 22 22 After 23 Uai 24 Uai 25 Fri 26 A	amand Charge (\$ per kW) ccess Demand Charge (\$ per KVA) nergy Charge (\$ per kWh) otel aximum Energy Charge Calculation ustomer Charge		2,288	\$3.31 \$3.82	\$110,101 \$8,740 \$0_	0.30%	5G 087		
13 Exc 14 Ene 15 Tot 16 17 17 Mai 18 Cus 19 Ene 20 Tot 21 22 22 Alter 23 Uni 24 Uni 25 F 26 A	ccess Demand Charge (\$ per KVA) wergy Charge (\$ per kWh) stal aximum Energy Charge Calculation ustomer Charge	2	2,288	\$3.82	\$8,740 \$0	0.30%	50 987		
14 Enset 15 Tot 16 17 17 Mai 18 Cus 19 Enset 20 Tot 21 22 22 After 23 24 24 Unit 25 F 26 A	nergy Charge (\$ per kWh) stal aximum Energy Charge Calculation ustomer Charge	2			\$0_	0.30%	50 987		
15 Tot 16 17 Mai 17 Mai 18 Cus 18 Cus 19 Ene 20 Tot 22 After 22 After 23 24 Unit 25 F 26 A	aximum Energy Charge Calculation ustomer Charge	2	1,431,201	50.0000000		0.30%	50 087		
16 17 Mai 18 Cus 19 Ene 20 Tot 21 22 23 24 24 Uni 25 F 26 A	aximum Energy Charge Calculation	2			ψ124,00 9	0.00/0		8.02%	8.02%
17 Ma: 18 Cus 19 Ene 20 Tot 21 22 23 23 24 Unit 25 F 26 A	ustomer Charge	2					40,001	U.DE /6	0.02.70
18 Cus 19 Ene 20 Tot 21 22 22 Alte 23 23 24 Uni 25 F 26 A	ustomer Charge	2							
19 Ene 20 Tot 21 22 22 Alte 23 23 24 Uni 25 F 26 A				\$95.47	5191				
20 Tot 21 22 Alte 23 24 Uni 25 F 26 A	nergy Charge (\$ per kWh)	—	35,726	\$0.0334793	\$1,196				
21 22 Alte 23 24 Uni 25 F. 26 A			00,120	00.0004730	\$1,387	0.00%	\$928	66.88%	66.88%
23 24 Uni 25 F. 26 A					+ 1++ 1				
24 Uni 25 F 26 A	temate Feed Service Charges	62,700		\$3.07	\$199,125	0.48%	\$46,398	23.30%	23.30%
25 F. 26 A									
26 A	niversal Service Fund Rider								
	First 833,000 kWh		1,777,896,569	\$0.0015873	\$2,822,055				
27 Tet	All Excess kWh		844,284,872	\$0.0001681	\$141,924				
41 106	otal Charge				\$2,963,980	7.20%	\$1,504,588	50.76%	50,78%
28									
	ivanced Energy Fund Rider	4,005		\$0.0895	\$358	0.00%	-\$358	-100.00%	-1 00. 00%
30									
	MH Tax Rider								
	First 2,000 kWh		8,357,792	\$0.00465	\$38,864				
	Next 13,000 kWh		53,040,762	\$0.00419	\$222,241				
	Excess kWh		2,507,615,742	\$0.00363	\$9,102,645				
	otal Charge				\$9,363,750	22.75%	\$0	0.00%	0.00%
36									
	ergy Efficiency and Peak Demand Rider		2,622,181,441	\$0.0026073	\$6,836,814	16.61%	\$3,245,474	47.47%	47 47 %
38 39 Eco	commic Development Cost Recovery Rider			a necessor'	61 E1E 043	3.93%	\$381.840	23.63%	23,63%
39 ECC 40	Chame Geagobulaur Cost Lacoaelà Estiél.			8.36693%	\$1,615,843	3,83%	9201,040	20.00%	23.03%
	hanced Service Reliability Rider			5,49819%	\$1,061,825	2.58%	-\$112,097	-10.56%	-10.56%
41 En	Illumous water and a residential and a			5.45619%	41,001,020	2.0070	1900, at 19-	-10.00 %	-10.00 /0
	dSMART® Rider				\$0	0.00%	\$4,005	100.00%	100.00%
44 ginu	NAVIE IN CONTINUES				\$U	0.0076		100.00 %	
					\$0	0.00%	\$322,266	100.00%	100.00%
46	noncehela Power Rider				W	0.0070	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	100.9070	100.00 /0
47 Tot	onongahela Power Rider							16,44%	16.44%

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Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original__Updated__Revised Work Paper Reference No(s): WP E-4.1y - WP E-4.1z

Schedule E-4.1 Page 29 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d	_	
Line No.	Rate Code (A) GS-3 Gener Subtransmission Volta	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I=F+H)
1	GS-3 Gen	eral Service - Medium/High L	oad Factor (Propose	d GS-2)					
2			• •						
3									
4	Distribution Charges	5							
5	Customer Charge		8 9 2		\$806.10	\$719,041	8.09%		
6	Demand Charge (\$			1,961.867	\$0.00	S D	0.00%		
7	Excess Demand Ch			66,639	\$2.04	\$135,944	1.53%		
8	Energy Charge (\$ p	er kWh)		868,133,352	\$0.0000000	\$0	0.00%		
9									
10	Minimum Energy Ch	narge Calculation	·						
11	Customer Charge		21		\$806.10	\$16.928			
12	Demand Charge (\$			10,957	\$0.00	\$0			
13	Excess Demand Ch			3,256	\$2.04	\$6,642			
14	Energy Charge (\$ p	er kVVh)		435,671	\$0.0000000	\$0			
15	Total					\$23,570	0.27%		
16		.							
17	Maximum Energy C	harge Calculation							
18	Customer Charge		a		\$806.10	\$0			
19	Demand Charge (\$			0	\$0.00	\$0			
20	Excess Demand Ch			0	\$2.04	\$0			
21	Energy Charge (\$ p	erkWh)		0	\$0.0000000	\$0			
22	Total					\$0	0.00%		
23									
24	Universal Service Fi								
25	First 833,000 kWh	1		505,663,652	\$0.0024312	\$1,229,369			
26	All Excess kWh			360,718,088	\$0.0001731	\$62,440			
27	Total Charge					\$1,291,810	14.53%		
28									
29	Advanced Energy Fo	und Rider	. 913		\$0.0000	\$0	0.00%		
30									
31	KWH Tax Rider					AA +			
32	First 2,000 kWh			1,926,598	\$0.00465	\$8,959			
33	Next 13,000 kWh			12,342,136	\$0.00419	\$51,714			
34	Excess kWh			852,113,006	\$0 .00363	\$3,093,170			
35	Total Charge					\$3,153,842	35.49%		
36	-				· · · · · · · · · · · · · · · · · · ·				
37	Energy Enciency ar	nd Peak Demand Rider		866,381,740	\$0.0038450	\$3,331,238	37.48%		
38									
39	Economic Developm	nent Cost Recovery Rider			9.63500%	\$84,649	0.95%		
40		5.8.1.1.1. m				• • • • • •			
41	Enhanced Service R	kenadility Rider			4.58062%	\$40,243	0.45%		
42			~~~						
43	gridSMART® Rider		913		\$1.00	\$913	0.01%		
44	Manager and a state	- Distan		000 004 715	An	#400 JT-	4 0000		
45	Monongahela Powe	r Kider		866,381,740	\$0.0001229	\$106,478	1.20%		
46	T								
47	Total CS-3 Subirans	SITUSSION	913	868,569,023		\$8,887,728	100.00%	\$0	\$8,887,728

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original__Updated__Revised Work Paper Reference No(s): WP E-4.1y - WP E-4.1z

Schedule E-4.1 Page 30 of 60 Witness Responsible: T. Zelina / A. Moore

					· · · · · · · · · · · · · · · · · · ·	Current Annualize	D			
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bilis (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=N+K)	Total Revenue % Increase (O)
1	GS-3 Ge	aneral Service - Medium/High L	nad Factor							
2	Subtransmission									
3		· 3 -								
4	Distribution Charc	ies								
5	Customer Charge	—	892		\$272.09	\$242,704	1.84%	\$476,337	196.26%	196.26%
6	Demand Charge (•••=	1,772,987	\$2.93	\$5,194,852	39 47%	\$5,194,852	-100.00%	-100.00%
7	Excess Demand (66,639	\$3.52	\$254,561	1.93%	-\$118,617	-46.60%	-48.60%
8 9	Energy Charge (\$	per kWh)		868,133,352	\$0.0003512	\$304,888	2.32%	-\$304,888	-100.00%	-100.00%
10	Minimum Energy	Charge Calculation								
11	Customer Charge	· • ·	21		\$272.09	\$5,714				
12	Demand Charge (\$ per kW)		10,957	\$2.93	\$32,104				
13	Excess Demand (Charge (\$ per KVA)		3,256	\$3.82	\$12,438				
14	Energy Charge (\$	per kWh)		435,671	\$0.0000000	\$0				
15 16	Total					\$50,256	0.38%	-\$26,685	-53.10%	-53.10%
17	Maximum Energy	Charge Calculation								
18	Customer Charge	I	0		\$272.09	\$0				
19	Energy Charge (\$	per kWh)		0	\$0.0296605	\$0				
20	Total					\$0	0.00%	\$0	0.00%	0.00%
21										
22	Universal Service	Fund Rider								
23	First 833,000 kV			505,663,652	\$0.0015873	\$802,640				
24	All Excess kWh			360,718,088	\$0.0001681	\$60,637				
25	Total Charge					\$863,277	6.56%	\$428,533	49.64%	49.64%
26										
27 28	Advanced Energy	Fund Rider	913		\$0.0895	\$82	0.00%	-\$82	-100.00%	-100.00%
29	KWH Tax Rider									
30	First 2,000 kWh			1,926,598	\$0.00465	\$8,959				
31	Next 13,000 kW	h		12,342,136	\$0.00419	\$51,714				
32	Excess kWh			852,113,006	\$0.00363	\$3,093,170				
33 34	Total Charge					\$3,153,842	23.96%	\$ 0	0.00%	0.00%
35 36	Energy Efficiency	and Peak Demand Rider		866,381,740	\$0.0026073	\$2,258,917	17.16%	\$1,072,321	47.47%	47.47%
37 38	Economic Develo	pment Cost Recovery Rider			8.36693%	\$505,970	3.84%	-5421,321	-83.27%	-83.27%
39 40	Enhanced Service	a Reliability Rider			5.49819%	\$332,490	2.53%	-\$292,247	-87 .90%	-87.90%
41 42	gridSMART® Rid	er				\$0	0.00%	\$9 13	100.00%	100.00%
43	Monongahela Pov	ver Rider				\$0	0.00%	\$106,478	100.00%	100.00%
44 45	Total GS-3 Subtra	anemiesion	913	020 200 000		\$13,161,639	100.00%	-\$4,274,111	-32.47%	-32.47%
40	TOTAL OCTO GUDIN	namaatun		868,569,023		313,101,039	100.00%	-04,274,111	*32.4170	- JC. +/ 7

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1aa - WP E4.1ac

Schedule E-4.1 Page 31 of 60 Witness Responsible: T. Zelina / A. Moore

•				-		Test Year Propose	d		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Totai (G)	increase Less Gas or Fuel Costs (H)	Proposed Totał Revenue (I =F+H)
1	GS-3 Ge	neral Şervice - Medium/High L	oad Factor (Proposed	(GS-2)					
2	Transmission Volta			· - • -,					
3		•							
4	Distribution Charge	es							
5	Customer Charge		52		\$806.10	\$41,917	1 0.99%		
6	Demand Charge (\$perkW)		87,426	\$0.00	\$0	0.00%		
7	Excess Demand C	Charge (per KVA)		10,886	\$2.04	\$22,207	5.83%		
8	Energy Charge (\$	per kWh)		44,840.951	\$0.0000000	\$0	0.00%		
9									
10		Charge Calculation							
11	Customer Charge		1		\$806.10	\$806			
12	Demand Charge (2,136	\$0.00	\$0			
13		harge (\$ per KVA)		0	\$2.04	\$0			
14	Energy Charge (\$	per kWh)		106,788	\$0.0000000	\$0			
15	Total					\$806	0.21%		
16									
17		Charge Calculation	~			**			
18	Customer Charge	• \\ ! ₽	٥		\$806.10	\$0			
19	Demand Charge (0	\$0.00	\$0			
20		Charge (\$ per KVA)		0	\$2.04	\$0			
21 22	Energy Charge (\$ Totał	per kyvn)		0	\$0.0000000	<u> </u>	0.00%		
22	I OUBI					φu	0.00%		
23	Universal Service	Erund Elizion							
24	First 833.000 kW			21,103.883	***	\$51,308			
25	All Excess kWh	¥1			\$0.0024312				
20	Total Charge			23,843,856	\$0.0001731	<u>\$4,127</u> \$55,435	14.54%		
28	rotat charge					¢00,400	14.3470		
29	Advanced Energy	Fund Pider	53		\$0.0000	\$0	0.00%		
30	Advanced Energy				\$U.UUUU	ψU	0.00%		
31	KWH Tax Rider								
32	First 2,000 kWh			76,507	\$0.00465	\$356			
33	Next 13,000 kW	h		497,300	\$0.00419	\$2,084			
34	Excess kWh			19,505,541	\$0.00363	\$70,805			
35	Total Charge			10,000,041	40.00000	\$73,245	19.21%		
36	and a starge					+. 0/k /0			
37	Energy Efficiency :	and Peak Demand Rider		44,947,739	\$0.0038450	\$172,824	45.33%		
38	,, ,				********				
39	Economic Develop	ment Cost Recovery Rider			9.63500%	\$6,256	1.64%		
40		· · · · · · · · · · · · · · · · · · ·				• • • •			
41	Enhanced Service	Reliability Rider			4.58062%	\$2,974	0,78%		
42									
43	gridSMART® Ride	er -	53		\$1.00	\$53	0.01%		
44					+	÷			
45	Monongahela Pow	ver Rider		44,947,739	\$0.0001229	\$5,524	1.45%		
40									
47	Total GS-3 Transn	nission	53	44,947,739		\$381,242	100.00%	\$0	\$381,242

Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original___Updated___Revised Work Paper Reference No(s): WP E-4.1aa - WP E4.1ac

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3 Distribution C 4 Distribution C 5 Customer Chi 6 Demand Chair 7 Excess Dema 8 Energy Charg 9 10 10 Minimum Energy Charg 11 Customer Chi 12 Demand Chair 13 Excess Dema 14 Energy Charg 15 Total 16 17 17 MaxImum Energy Charg 20 Total 21 Energy Charg 20 Total 21 22 22 Universal Ser 23 First 833,00 24 All Excess k 25 Total Charge 26 . 27 Advanced Energy 28 KWH Tax Rid 30 First 2,000 H 31 Next 13,000 32 Excess kWP 33 Total Charge 34 Energy Efficie 36 Energy Efficie 37 Economic De 38 Economic De	Code Descript. (A) (B)		·		Current Annualize	d	_		
2 Transmission 3 Distribution Cl 5 Customer Chi 6 Demand Chai 7 Excess Dema 8 Energy Charg 9 Iminimum Energy Charg 10 Minimum Energy Charg 12 Demand Chai 13 Excess Dema 14 Energy Charg 15 Total 16 Iminimum Energy Charg 17 MaxImum Energy Charg 18 Customer Chi 19 Energy Charg 20 Total 21 Universal Ser 22 Universal Ser 23 First 833,00 24 All Excess k 25 Total Charge 26 . 27 Advanced Energy 29 KWH Tax Rid 30 First 2,000 i 31 Next 13,000 32 Excess kWI 33 Total Charge 34 Energy Efficie 35 Energy Efficie		Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M≃F-K)	% Increase in Rovenue Less Fuel Cost Rovenue (N=M+K)	Total Revenue % Increase (O)
2 Transmission 3 Distribution Cl 5 Customer Chi 6 Demand Chai 7 Excess Dema 8 Energy Charg 9 10 10 Minimum Ene 11 Customer Chi 12 Demand Chai 13 Excess Dema 14 Energy Charg 15 Total 16 17 17 MaxImum Ene 18 Customer Chi 19 Energy Charg 20 Total 21 Universal Ser 22 Universal Ser 23 First 833,00 24 All Excess k 25 Total Charge 26 . 27 Advanced Ene 29 KWH Tax Rid 30 First 2,000 i 31 Next 13,000 32 Excess kWI 33 Total Charge 34 Energy Efficie 35 Energy Efficie <t< td=""><td>General Service - Medium/High f</td><td>Load Factor</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	General Service - Medium/High f	Load Factor							
3 Distribution C 5 Customer Chi 6 Demand Chai 7 Excess Dema 8 Energy Charg 9 Image: Second Chai 10 Minimum Ene 11 Customer Chi 12 Demand Chai 13 Excess Dema 14 Energy Charg 15 Total 16 Image: Second Charge 17 MaxImum Ene 18 Customer Chi 19 Energy Charg 20 Total 21 Image: Second Charge 22 Universal Ser 23 First 833,00 24 All Excess Is 25 Total Charge 26 . 27 Advanced Energy 28 KWH Tax Rid 30 First 2,000 I 31 Next 13.000 32 Excess kWI 33 Total Charge 34 Energy Efficie 35 Energy Efficie 36 Energy Efficie 37 Economic Defi									
5Customer Chi6Demand Chai7Excess Dema8Energy Charg91011Customer Chi12Demand Chai13Excess Dema14Energy Charg15Total161617MaxImum Ene18Customer Chi19Energy Charg20Total21Energy Charg22Universal Ser23First 833,00024All Excess k25Total Charge262727Advanced En282929KWH Tax Rid30First 2,000 I31Next 13,00032Excess kWT33Total Charge343537Economic De38Economic De	-								
6Demand Chai7Excess Dema8Energy Charg91011Customer Chai12Demand Chai13Excess Dema14Energy Charg15Total161717MaxImum Energy Charg18Customer Chai19Energy Charg20Total21Energy Charg22Universal Ser23First 833,0024All Excess k25Total Charge26.27Advanced Energy29KWH Tax Rid30First 2,000 i31Next 13,00032Excess kWR33Total Charge343537Economic De38Economic De	Charges								
7Excess Dema8Energy Charg91011Customer Chi12Demand Chai13Excess Dema14Energy Charg15Total161717MaxImum Energy Charg18Customer Chi19Energy Charg20Total211022Universal Ser23First 833,0024All Excess k25Total Charge262729KWH Tax Rid30First 2,000 i31Next 13,00032Excess kWH33Total Charge343537Economic De3829	large	52		\$534.63	\$27,801	4.93%	\$14,116	50.78%	50.78%
 8 Energy Charg 9 10 Minimum Ene 11 Customer Chi 12 Demand Char 13 Excess Dema 14 Energy Charg 15 Total 16 17 MaxImum Ene 18 Customer Chi 19 Energy Charg 20 Total 21 22 Universal Ser 23 First 833,000 24 Alt Excess k 25 Total Charge 26 . 27 Advanced Ene 28 29 KWH Tax Rid 30 First 2,000 k 31 Next 13,000 32 Excess kWH Tax Rid 33 Total Charge 34 35 Energy Efficie 36 37 Economic Definition 	arge (\$ per kW)		85,305	\$2.40	\$204,732	36.27%	-\$204,732	-100.00%	-100.00%
9 Minimum Ene 10 Minimum Ene 11 Customer Chi 12 Demand Chai 13 Excess Dema 14 Energy Charg 15 Total 16 In 17 Maximum Ene 18 Customer Chi 19 Energy Charg 20 Total 21 Universal Ser 22 Universal Ser 23 First 833.000 24 All Excess k 25 Total Charge 26 Interversal Ser 27 Advanced Ene 28 KWH Tax Rid 30 First 2,000 i 31 Next 13,000 32 Excess kWI 33 Total Charge 34 Interversal Ser 35 Energy Efficie 36 Energy Efficie 37 Economic De 38 Economic De	and Charge (per KVA)		10,886	\$3.82	\$41,585	7.37%	-\$19,377	-46.60%	-46.60%
10Minimum Ene11Customer Cha12Demand Char13Excess Dema14Energy Charg15Total16Interpret Charg17MaxImum Ene18Customer Charg20Total21Interpret Charg22Universal Ser23First 833,0024All Excess k25Total Charge26.27Advanced Ene29KWH Tax Rid30First 2,000 i31Next 13,00032Excess kWR33Total Charge34S35Energy Efficie3637Economic De38Energy Efficie	ge (\$ per kWh)		44,840,951	\$0.0003512	\$15,748	2.79%	-\$15,748	-100.00%	-100.00%
11 Customer Chail 12 Demand Chail 13 Excess Dema 14 Energy Charg 15 Total 16	ergy Charge Calculation								
12Demand Chai13Excess Dema14Energy Charg15Total1617MaxImum Ent18Customer Chi19Energy Charg20Total21Total22Universal Ser23First 833,0024All Excess k25Total Charge26.27Advanced En29KWH Tax Rid30First 2,000 k31Next 13,000 k32Excess kWH33Total Charge34.35Energy Efficie36.37Economic De38.		1		\$534.63	\$535				
13Excess Dema14Energy Charg15Total1617MaxImum Energy Charg20Total21Energy Charg22Universal Ser23First 833,00024All Excess k25Total Charge262727Advanced Energy282929KWH Tax Rid30First 2,000 l31Next 13,00032Excess kWH33Total Charge343537Economic Definition38Energy Efficie38Energy Efficie	arge (\$ per kW)	-	2,136	\$2.40	\$5,126				
14Energy Charg15Total16Interface17MaxImum Energy18Customer Charg20Total21Interface22Universal Ser23First 833,0024All Excess k25Total Charge26Interface27Advanced Energy29KWH Tax Rid30First 2,000 i31Next 13,000 i33Total Charge34S35Energy Efficie363737Economic Der38S	and Charge (\$ per KVA)		0	\$3.82	\$0				
1617MaxImum End18Customer Chill19Energy Charg20Total212223First 833,0024All Excess k25Total Charge26.27Advanced En28KWH Tax Rid30First 2,000 l31Next 13,00032Excess kWP33Total Charge34.35Energy Efficie36Energy Efficie37Economic De38	ge (\$ per kWh)		106,788	\$0.0000000	\$0				
17Maximum Ene18Customer Chi19Energy Charg20Total212122Universal Ser23First 833,0024All Excess k25Total Charge262727Advanced En282929KWH Tax Rid30First 2,000 i31Next 13,00032Excess kWH33Total Charge343535Energy Efficie363738	-			-	\$5,661	1.00%	\$4,855	-85.76%	-85.76%
18Customer Chi19Energy Charg20Total212122Universal Ser23First 833,0024All Excess k25Total Charge262727Advanced En282929KWH Tax Rid30First 2,000 I31Next 13,00032Excess kWI33Total Charge343535Energy Efficie363738									
19Energy Charg20Total21Universal Ser23First 833,0024All Excess &25Total Charge26.27Advanced En29KWH Tax Rid30First 2,000 31Next 13,00032Excess kWR33Total Charge343535Energy Efficie363737Economic De38	tergy Charge Calculation								
20 Total 21 21 22 Universal Ser 23 First 833,00 24 All Excess k 25 Total Charge 26		Ó		\$534.63	\$0				
2122Universal Ser23First 833,0024All Excess k25Total Charge26-27Advanced En28-29KWH Tax Rid30First 2,000 k31Next 13,00032Excess kWH33Total Charge34-35Energy Efficie36-37Economic De38	ge (\$ per kWh)		0	\$0.0243142	\$0				
22 Universal Ser 23 First 833,00 24 All Excess k 25 Total Charge 26 . 27 Advanced En 28 . 29 KWH Tax Rid 30 First 2,000 + 31 Next 13,000 32 Excess kW 33 Total Charge 34 . 35 Energy Efficie 36 . 37 Economic Der 38 .					\$0	0.00%	\$0	0.00%	0.00%
23 First 833,00 24 All Excess k 25 Total Charge 26									
24 All Excess k 25 Total Charge 26 Total Charge 27 Advanced En 28 KWH Tax Rid 30 First 2,000 i 31 Next 13,000 32 Excess kWr 33 Total Charge 34 S 35 Energy Efficie 36 37 38	rvice Fund Rider								
25Total Charge2627Advanced En2829KWH Tax Rid30First 2,000 /31Next 13,00032Excess kWT33Total Charge343535Energy Efficie363738			21,103,883	\$0.0015873	\$33,498				
26 27 27 Advanced En 28 29 30 First 2,000 / 31 Next 13,000 32 Excess kWF 33 Total Charge 34 35 36 37 38 Economic Der			23,843,856	\$0.0001681	\$4,008				
27 Advanced En 29 KWH Tax Rid 30 First 2,000 + 31 Next 13,000 32 Excess KWF 33 Total Charge 34 - 35 Energy Efficie 36 - 37 Economic Der 38 -	1				\$37,506	6.64%	\$17,929	47.80%	47.80%
28 29 KWH Tax Rid 30 First 2,000 i 31 Next 13,000 32 Excess kWI 33 Total Charge 34 35 35 Energy Efficie 36 27 37 Economic Der 38 28									
29 KWH Tax Rid 30 First 2,000 / 31 Next 13,000 / 32 Excess kWI 33 Total Charge 34 - 35 Energy Efficie 36 - 37 Economic Def 38 -	hergy Fund Rider	53		\$0.0895	\$5	0.00%	-\$5	-100.00%	-100.00%
30 First 2,000 + 31 Next 13,000 32 Excess kWP 33 Total Charge 34 - 35 Energy Efficie 36 - 37 Economic Der 38 -									
31 Next 13,000 32 Excess kWr 33 Total Charge 34				** ** ***	#0 50				
32 Excess KW 33 Total Charge 34 35 Energy Efficie 36 37 Economic Der 38			76.507	\$0.00465	\$356				
33Total Charge3435Energy Efficie3637Economic Der38			497,300	\$0.00419	\$2,084				
34 35 Energy Efficie 36 37 Economic Der 38			19,505,541	\$0.00363	\$70,805 \$73,245	12.98%	\$0	0.00%	0.00%
35 Energy Efficie 36 37 Economic De 38)				₿/ 3,24 3	12.80 %	40	0.00 %	0.0078
36 37 Economic De 38	iency and Peak Demand Rider		44,947,739	\$0.0026073	\$117,192	20.76%	\$55,632	47 47%	47.47%
37 Economic De 38	ency and ribar bandria rucer		44,041,108	30.0020013	ψ ¹ 117,1342	20.70 %	400,00E	41.41.70	41.41.15
38	evelopment Cost Recovery Rider			8.36693%	\$24,726	4.38%	-\$18,470	-74 70%	-74.70%
				0.0003070	*****	4.447			•••••
	ervice Reliability Rider			5,49819%	\$16,249	2.88%	-\$13,274	-51.70%	-81.70%
40	·····, ···-			0007070	4,10		÷		
41 gridSMART®	ð Rider				\$0	0.00%	\$53	100.00%	100.00%
42									
	a Power Rider				\$0	0.00%	\$5,524	100.00%	100.00%
44							,		
45 Total GS-3 Tr	ransmission	53	44,947,739		\$564,449	100.00%	-\$183,208	-32.46%	-32.46%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Driginal__Updated__Revised Work Paper Reference No(s): WP E-4.1ad Schedule E-4.1 Page 33 of 60 Witness Responsible: T. Zelina / A. Moore

			·			Test Year Propose	d		
Line No.	Rate Code (A) GS-4 Ger	Class/ Descript. (8)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenus (I =F+H)
1	68-4 64	eneral Service - Large (Propo	sed GS-2)						
2	Primary Voltage								
3									
4	Distribution Charg	es							
5.	Customer Charge		48		\$52.60	\$2,525	0.11%		
6	Demand Charge (\$perkW)		457,344	\$3.81	\$1,742,481	75.73%		
7	Reactive Demand	Charge (\$ per KVAR)		45,348	\$0.69	\$31,290	1.36%		
8	Energy Charge (\$	per kWh)		259,140,848	\$0.0000000	\$0	0.00%		
9									
10	Universal Service								
11	First 833,000 kV	Yh		42,334,660	\$0.0024312	\$102,924			
12	All Excess kWh			216,806,188	\$0.0001731	\$37,529			
13	Total Charge					\$140,453	6.10%		
14		- 1811							
15	Advanced Energy	Fund Rider	48		\$0.0000	\$0	0.00%		
16 17									
17 18	KWH Tax Rider			-		to.			
18 19	First 2,000 kWh Next 13,000 kW			0	\$0.00465	\$0 \$0			
20	Excess kWh	n		0	\$0.00419 \$0.00363	\$Q			
21	Total Charge			u	\$0.00363		0.00%		
22	TULAI CIMILIJE					40	0.0070		
23	Energy Efficiency	and Peak Demand Rider		259,140,848	\$0.0003845	\$99,640	4.33%		
24	Energy Energy			200,140,040	\$0.00000 1 0	₩₩₩₩₩			
25	Economic Develo	pment Cost Recovery Rider			9.63500%	\$171,146	7.44%		
26					3.000000	•			
27	Enhanced Service	Reliability Rider			4,58062%	\$81,365	3.54%		
28		·····				<i>+- ,</i>			
29	gridSMART® Ride	er	48		\$1.00	\$48	0.00%		
30									
31	Monongahela Pov	wer Rider		259,140,848	\$0.0001229	\$31,848	1.38%		
32	-		·	· · ·					
33	Total GS-4 Prima	ry	48	259,140,848		\$2,300,796	100.00%	\$0	\$2,300,796

Schedule E-4.1 Page 34 of 60 Witness Responsible: T. Zelina / A. Moore

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					Current Annualiza	d			
Line No.	Rate Class/ Code Descript. (A) (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Totał Revenue % Increase (O)
1	GS-4 General Service - Large								
2	Primary Voltage								
3									
4	Distribution Charges								
5	Customer Charge	48		\$162.30	\$7,790	0.44%	\$5,266	-67.59%	-67.59%
6	Demand Charge (\$ per kW)		456.752	\$2.77	\$1,265,203	71.22%	\$477,278	37.72%	37.72%
7	Reactive Demand Charge (\$ per KVAR)		45,348	\$0.48	\$21,767	1.23%	\$9,523	43.75%	43.75%
8	Energy Charge (\$ per kWh)		259,140,848	\$0.0003512	\$91,010	5.12%	-\$91,010	-100.00%	-100.00%
9									
10	Universal Service Fund Rider								
11	First 833,000 kWh		42,334,660	\$0.0015873	\$67,198				
12	All Excess kWh		216,806,188	\$0.0001681	\$36,445				
13	Total Charge				\$103,643	5.83%	\$36,810	35.52%	35.52%
14									
15 16	Advanced Energy Fund Rider	48		\$0.0895	\$4	0.00%	-\$4	-100.00%	-100.00%
17	KWH Tax Rider								
18	First 2,000 kWh		0	\$0.00465	\$0				
19	Next 13,000 kWh		0	\$0.00419	\$ 0				
20	Excess kWh		0	\$0.00363	<u>\$0</u> \$0				
21 22	Total Charge				\$0	0.00%	\$0	0.00%	0.00%
23 24	Energy Efficiency and Peak Demand Rider		259,140,848	\$0.0003662	\$94,897	5.34%	\$4,742	5.00%	5.00%
25 26	Economic Development Cost Recovery Rider			8.36693%	\$115,946	6.53%	\$55,200	47.61%	47.61%
27 28	Enhanced Service Reliability Rider			5.49819%	\$76,192	4.29%	\$5,173	6.79%	6.79%
29 30	gridSMART® Rider				\$0	0.00%	\$48	100.00%	100.00%
31 32	Monongahela Power Rider				\$0	0.00%	\$31,848	100 .00%	100.00%
33 33	Total GS-4 Primary	48	259,140,848		\$1,778,454	100.00%	\$524,342	29.52%	29.52%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original___Updated___Revised Work Paper Reference No(s): WP E-4.1ae - WP E-4.1af

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Schedule E-4.1 Page 35 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d		
Line No.	Rate Class/ Code Descript. (A) (B)		Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Ges or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I =F+H)
1	GS-4 Gr	eneral Service - Large (Proposed	(GS-2)						
2 3	Subiransmission		,						
4	Distribution Charg	88							
5	Customer Charge	•	337		\$606.10	\$271,656	9.22%		
6	Demand Charge	(\$perkW)		4,231,890	\$0.00	\$0	0.00%		
7 8	Energy Charge (\$	i per kWh)		2,293,121,263	\$0.0000000	\$0	0.00%		
9 10	Reactive Demand	Charge (\$ per KVAR)		13,240	\$0.69	\$9,136	0.31%		
11	Standby Service (Backup Reservation Charge		159,000	\$0.00	\$0	0.00%		
12 13	Standby Service I			134,376	\$0.0000000	\$0	0.00%		
14	Universal Service	Fund Rider							
15	First 833,000 kV	Vh		293,384,250	\$0.0024312	\$713,276			
16	All Excess kWh			1,999,613,141	\$0.0001731	\$346,133			
17 18	Total Charge					\$1,059,409	35.95%		
19 20	Advanced Energy	Fund Rider	337		\$0.0000	\$0	0.00%		
21	KWH Tax Rider								
22	First 2,000 kWh			24,231	\$0.00465	\$113			
23	Next 13,000 kM	^t h		157,514	\$0.00419	\$660			
24	Excess kWh			110,808,171	\$0.00363	\$402,234			
25 26	Total Charge					\$403,006	13.68%		
27 28	Energy Efficiency	and Peak Demand Rider		2,292,997,391	\$0.0003845	\$881,657	29.92%		
29 30	Economic Develo	pment Cost Recovery Rider			9.63500%	\$27,054	0.92%		
31 32	Enhanced Service	Reliability Rider			4.58062%	\$12,862	0.44%		
33	gridSMART® Rid	er	337		\$1.00	\$337	0.01%		
34 35	Monongahela Pov	ver Rider		2,292,997,391	\$0.0001229	\$281,809	9.56%		
36	-				40,000 (220				
37	Total GS-4 Subtra	Insmission	337	2,293,255,639		\$2,946,927	100.00%	\$0	\$2,946,927

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original__Updated__Revised Work Paper Reference No(s): WP E-4.1ae - WP E-4.1ar

Schedule E-4.1 Page 36 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualize	d			
Line No.	Rate Code _(A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Ravenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	Increase Less Gas or Fuel Gosts (M=F-K)	% Increase In Révenue Less Fuel Cost Révenue (N=M+K)	Tatal Revenue % Increase (0)
1	GS-4 G	ieneral Service - Large								
2	Subtransmission									
3										
4	Distribution Char									
5	Customer Charg		337		\$429.62	\$144,782	1.66%	\$126,874	87.63%	87.63%
6	Demand Charge			4,231,890	\$1.15	\$4,866,674	55.77%	-\$4,866,674	-100.00%	-100.00%
7	Energy Charge (\$perkWh)		2,293,121,263	\$0.0003512	\$805,344	9.23%	-\$805,344	-100.00%	-100.00%
8	Departure Deserve							40 TRO		
9 10	Reactive Deman	d Charge (\$ per KVAR)		13,240	\$0.48	\$6,355	0.07%	\$2,780	43.75%	43.75%
11	Standby Service	Backup Reservation Charge		159.000	\$0.28	\$44.520	0.51%	-\$44,520	-100.00%	-100.00%
12	Standby Service			134,376	\$0.0003512	\$47	0.00%	-\$47	-100,00%	-100.00%
13	dianaby but the	Dawlop Energy		104,070	\$0.0003312	- 1944 (0.00%		-100.0070	-100.007
14	Universal Servic	e Fund Rider								
15	First 833,000 k			293.384.250	\$0.0015873	\$465.689			- /	•
16	All Excess kW	n		1,999,613,141	\$0.0001681	\$336,135		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		e de la composition d
17	Total Charge				•	\$801,824	9.19%	\$257,585	32.12%	32.12%
18	*	-								
19 20	Advanced Energ	y Fund Rider	337		\$0.0895	\$30	0.00%	-\$30	-100.00%	-100.00%
21	KWH Tax Rider				÷					
22	First 2,000 kW	h		24,231	\$0.00465	\$113				
23	Next 13,000 kV	Mh		157,514	\$0.00419	\$660				
24	Excess kWh			110,808,171	\$0.00363	\$402,234				
25	Total Charge					\$403.006	4.62%	\$0	0.00%	0.00%
26								*		
27	Energy Efficiency	y and Peak Demand Rider		2,292,997,391	\$0.0003662	5839,696	9.62%	\$41,962	5.00%	5.00%
28 29	Concernio Dourt				A 400000	£400.040	5 0000	£463 804	04 408/	-94,49%
29 30	Economic Devel	opment Cost Recovery Rider			8,36693%	\$490,948	5.63%	-\$463,894	-94.49%	-94.49%
31	Enhanced Serviv	æ Reliability Rider			5.49819%	\$322.619	3.70%	-\$309.757	-96.01%	-96.01%
32		So reality rules			₽. ₩701870	402C,010	0.74	4000,101	-uu.u i 70	-00.014
33	gridSMART® Rid	der				\$0	0.00%	\$337	100.00%	100.00%
34	.									
35	Monongaheta Po	wer Rider				\$0	0.00%	\$281,809	100.00%	100.00%
36	-									
37	Total GS-4 Subt	ransmission	337	2,293,255,639		\$8,725,845	100.00%	\$5,778,918	-66.23%	66.23%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1ag

Schedule E-4.1 Page 37 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d ·	_	
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Reven ue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue {I =F+H}
1	GS-4 Ge	eneral Service - Large (Propos	ed GS-2)						
2	Transmission Vol								
3									
4	Distribution Chart								
5	Customer Charge		59		\$806.10	\$47,560	4.23%		
6	Demand Charge (2,234,290	\$0.00	\$0	0.00%		
7		Charge (\$ per KVAR)		34,042	\$0.69	\$23,489	2.09%		
8 9	Energy Charge (\$	i per kWh)		1,359,231,693	\$0.0000000	\$0	0.00%		
10	Universal Service								
11	First 833,000 kV	Wh		52,341,747	\$0.0024312	\$127,253			
12	All Excess kWh	1		1,306,889,946	\$0.0001731	\$226,223			
13	Total Charge					\$353,476	31.44%		
14									
15	Advanced Energy	/ Fund Rider	59		\$0.0000	\$0	0.00%		
୍ 16									•
17	KWH Tax Rider								
18	First 2,000 kWh	1 `		0	\$0.00465	\$0	•		
19	Next 13,000 kW	/h	* .	0	\$0.00419	\$0			
20	Excess kWh			0	\$0.00363	\$0			
21	Total Charge					\$0	0.00%		
22	-								
23	Energy Efficiency	and Peak Demand Rider		1,359,231,693	\$0.0003845	\$522.625	46,48%		
24				,,	+	·····			
25	Economic Develo	pment Cost Recovery Rider			9.63500%	\$6,846	0.61%		
26		······				•••••			
27	Enhanced Service	e Reliability Rider			4.58062%	\$3,254	0.29%		
28					-1.4444a /V	40,204	0.2070		
29	gridSMART® Rid	er	59		\$1.00	\$59	0.01%		
30	g		35		÷	448			
31	Monongahela Pov	war Rider		1,359,231,693	\$0.0001229	\$167,050	14,86%		
32				·,000,001,000	40.000 ILLO	+tor,000	11.0010		
33	Total GS-4 Transi	mission	59	1,359,231,693		\$1,124,358	100.00%	\$0	\$1,124,358
				1,003,201,003		91,127,000	100.0070		w1,124,000

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original___Updated___Revised Work Paper Reference No(s): WP E-4.1ag

Schedulø E-4.1 Page 38 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualized	<u> </u>	_		
Line No.	Rate Code (A)	Class/ Descript. (B) General Service - Large	Customer Bills (C)	Bills KW/KWH		Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M=F-K)	% Increase in Révenue Less Fuel Gost Revenue (N=M+K)	Total Revenue % Increase (O)
1	G8-4 (Sonoral Sonvino - Largo								
2	Transmission V									
3	Trainsmission ve	hage								
4	Distribution Cha	mae								
5	Customer Charg		59		\$534,63	\$31.543	1.27%	\$16.017	50.78%	50.78%
6	Demand Charge		00	2,234,290	\$0.43	\$980.745	38.54%	-\$960,745	-100.00%	-100.00%
7		nd Charge (\$ per KVAR)		34,042	\$0.48	\$16,340	0.66%	\$7,149	43.75%	43.76%
8	Energy Charge			1.359,231,693	\$0.0003512	\$477,362	19.15%	-\$477,362	-100.00%	-100.00%
9	3, 444 34	(*)			\$0.00000 /L	4.1.1.002		• • • • • • •		
10	Universal Servic	a Fund Rider								
11	First 833,000	kWh		52,341,747	50.0015873	\$83,082				
12	All Excess kW	հ		1,306,889,946	\$0.0001681	\$219,688				
13	Total Charge					\$302,770	12.15%	\$50,706	16.75%	16.75%
14			*							·
15	Advanced Energy	by Fund Rider	59		\$0.0895	\$5	0.00%	-\$5	-100.00%	-100.00%
16										
17	KWH Tax Rider									
18	First 2,000 kW			0	\$0.00465	\$0				
19	Next 13,000 k	Wh		0	\$0.00419	\$0 ·		· · ·	, ·	
20	Excess kWh			0.	\$0.00363	50				
_ 21	Total Charge					\$0	0.00%	\$ 0	0.00%	0.00%
22								AC + AT +	E 660	
23 24	Energy Efficienc	y and Peak Demand Rider		1,359,231,693	\$0.0003662	\$497,751	19.97%	\$24,874	5.00%	5.00%
24 25	Feene - Perso	Dennest Cart Danser Didan				Pres and	4.99%	-\$117,486	-94.49%	-94.49%
25 26	Economic Deve	lopment Cost Recovery Rider			8.36693%	\$124,332	4.99%	-3117,400	-94.48%	-94.49%
26	Echopord Cond	ce Reliability Rider			5 1001000	Pa+ 700	3.28%	-\$78,448	-96.02%	-96.02%
28	Ennanceo Servi	ce Renability Riber			5.49819%	\$81,703	3.20%	-9/0,440	-90.02%	-90.04.70
29	gridSMART® Ri	idor				\$0	0.00%	\$59	100.00%	100.00%
30	gino on APCT @ PC					\$U	0.00%	404	100.00%	104.00 %
31	Monongahela P	ower Rider				\$0	0.00%	\$167,050	100.00%	100.00%
32	mananganga P					\$V	0.0070	#141,00V	144-54.10	104-44 14
33	Total GS-4 Tran	smission	59	1,359,231,693		\$2,492,551	100.00%	-\$1,368,193	-54.89%	-54.89%
••							100.0010	4110001.00	01.0010	0

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original___Updated___Revised Work Paper Reference No(s): WP E-4.1ah

Schedule E-4.1 Page 39 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I ≍F+H)
1	IRP-D Int	erruptible Power - Discretional	ry (Proposed GS-2)						
2	Subtransmission \	√oltage							
3									
4	Distribution Charg								
5	Customer Charge		12		\$806.10	\$9,673	7.65%		
6	Demand Charge (36,741	\$0.00	\$0	0.00%		
7	Energy Charge (\$	per kWh)		21,695,725	\$0.0000000	\$0	0.00%		
8									
9	Universal Service								
10	First 833,000 kV			9,670,465	\$0.0024312	\$23,511			
11	All Excess kWh			12,025,260	\$0.0001731	\$2,082			
12	Total Charge					\$25,592	20.23%		
13									
14	Advanced Energy	Fund Rider	12		\$0.0000	\$O	0.00%		
15						i.			
16	KWH Tax Rider			54 355					
17	First 2,000 kWh			24,000	\$0.00465	\$112			
. 18	Next 13,000 kW	'n		156,000	\$0.00419	\$654			
19	Excess kWh			21,515,725	\$0.00363	\$78,102		1	
20	Total Charge	• •		*		\$78,867	62.33%		
21							0		
22	Energy Efficiency	and Peak Demand Rider		21,695,725	\$0.0003845	\$8,342	6.59%		
23									
24	Economic Develo	pment Cost Recovery Rider			9.63600%	\$932	0.74%		
25						A (10	0.070/		
26	Enhanced Service	e regula dility radier ,			4.58062%	\$443	0.35%		
27					e	\$12	0.01%		
28	gridSMART® Ride	30	12		\$1.00	\$1Z	0.01%		
29	the second second second			04 005 305		#0.000	0.000		
30	Monongahela Pov	ver Kicéř		21,695,725	\$0.0001229	\$2,666	2.11%		
31 32	Total IRP-D Subtr		12	04 005 305		\$126,528	100.00%		\$126,528
J2		21131111531211	12	21,695,725		Φ120, 920	100.00%		

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Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filling: ►Original___Updated___Revised Work Paper Reference No(s): WP E-4.1ah

Schedule E-4.1 Page 40 of 60 Witness Responsible: T. Zellna / A. Moore

		·····				Current Annualize	d	_		
Line No.	Raie Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M=F-K)	% increase in Rovenuø Less Fuel Cost Røvenue (N=M+K)	Total Revenue % Increase (O)
1 2 3	IRP-D Int Subtransmission 1	erruptible Power - Discretionary Voltage								
4	Distribution Charc	165								
5	Customer Charge		12		\$429.62	\$5,155	3.09%	\$4,518	87.63%	87.63%
6	Demand Charge (\$ per kW)		36,741	\$1.15	\$42,252	25.32%	-\$42,252	-100.00%	-100.00%
7 8	Energy Charge (\$	per kWh)		21,695,725	\$0.0003512	\$7.620	4.57%	-\$7,620	-100.00%	-100.00%
9	Universal Service	Fund Rider	,							
10	First 833.000 kt			9,670,465	\$0.0015873	\$15,350				
11	All Excess kWh			12.025.260	\$0.0001681	\$2.021				
12 13	Total Charge			, E'REQTER	Q1 ,0001001	\$17,371	10.41%	\$8,221	47.33%	47.33%
14	Advanced Energy	Fund Rider	1 2		\$0.0895	\$1	0.00%	-\$1	-1 00.00%	-100.00%
15 16	KWH Tax Rider									
17	First 2,000 kWh			24.000	\$0.0046 5	\$112				•
18	Next 13,000 kW			156,000	\$0.00419	\$654				
19	Excess kWh			21,515,725	\$0.00363	\$78,102				
20 21	Total Charge			21,010,120		\$78,867	47.27%	\$0	0.00%	0.00%
22 23	Energy Efficiency	and Peak Demand Rider		21,695,725	\$0.0003662	\$7,945	4.76%	\$397	5.00%	5.00%
24 25	Economic Develo	pment Cost Recovery Rider		,	8.36693%	\$4,604	2.76%	-\$3,672	79.76%	-79.76%
28 27	Enhanced Service	Reliability Rider	1		5.49819%	\$3,025	1.81%	-\$2,582	-85.35%	-85.35%
28 29	gridSMART® Ride	8 r				\$0	0.00%	\$12	100.00%	100.00%
30 31	Monongahela Pov	ver Rider				\$0	0.00%	\$2,666	100.00%	100.00%
32	Total IRP-D Subtr	ansmission	12	21,695,725		\$166,841	100.00%	-\$40,313	-24.16%	-24.16%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(9): WP E-4.1ai - WP E-4.1ai

Schedule E-4.1 Page 41 of 60 Witness Responsible: T. Zeilna / A. Moore

				·		Test Year Propose	d		
Line No.	Rate Code (A)	Class <i>i</i> Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Totał (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I ≠F+H)
1	IRP-D Inf	erruptible Power - Discretionary	(Proposed GS-2)						
2	Transmission Volt		(
3		•							
4	Distribution Charg								
5	Customer Charge		59		\$806.10	\$47,560	2.11%		
6	Demand Charge (5,431,410	\$0.00	50	0.00%		
7	Energy Charge (\$	i per kWh)		3,018,199,162	\$0.0000000	\$0	0.00%		
8									
9	Alternate Feed Se	ervice Charge				\$3,594	0.16%		
10 11	U-1	Fund Older							
12	Universal Service First 833.000 kV			53.064.016	\$0.0024312	\$129,009			
13	Ali Excess kWb			2,999,957,185	\$0.0024312 \$0.0001731	\$519,293			
14	Total Charge			2,333,307,100	\$0.0001731	\$648,302	28.74%		
15	rotal charge					40+10,002	20.7470		
16	Advanced Energy	Fund Rider	59		\$0,0000	50	0.00%		
17									
18	KWH Tax Rider								
19	First 2,000 kWh	1		0	\$0.00465	\$0			
20	Next 13,000 kW	/h		٥	\$0.00419	\$0			
21	Excess kWh			0	\$0.00363	\$0			
22	Total Charge			-		\$0	0.00%		
23									•
24	Energy Efficiency	and Peak Demand Rider		3,053,021,201	\$0.0003845	\$1,173,887	52.04%	•	
25									
26	Economic Develo	pment Cost Recovery Rider			9.63500%	\$4,929	0.22%		
27	Eulosus d Oscida	Sallability Distance	•			, 	0.400		
28 29	Enhanced Service	s kenability Kider			4.58062%	\$2,343	0.10%		
29 30	gridSMART® Ride		59		\$1.00	\$59	0.00%		
31	SURSINIAL IS LUCK				φ1.00	<i>ф</i> .39	0.00%		
32	Monongahela Pov	ver Rider		3,053,021,201	\$0.0001229	\$375,216	16.63%		
33	OLADADAGUAIG L. OF				40,000 IE40	901 A12 19	14.4470		
34	Total IRP-D Trans	smission		3,018,199,162		\$2,255,890	100.00%	\$0	\$2.255.890

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶ Criginal___Updated___Revised Work Paper Reference No(s): WP E-4.1ai - WP E-4.1a

Schedule E-4.1 Page 42 of 60 Witness Responsible: T. Zelina / A. Moore

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						Current Annualize	bd			
Linə No.	Rate Code (A)	Class/ Descript. (B)	Customer Bilts (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total {L)	Increase Less Gas or Fuei Costs (M=F-K)	Fuel Cost	Totai Revenus % Increase (O)
1	IRP-D	Interruptible Power - Discretionary								
2	Transmission V									
3										
4	Distribution Che	arges								
5	Customer Char		59		\$534.63	\$31,543	0.56%	\$16,017	60.78%	50.78%
6	Demand Charg			5,431,410	\$0.43	\$2,335,506	41.61%	-\$2,335,506	-100.00%	-100.00%
7	Energy Charge	(\$ per kWh)		3.018,199,162	\$0.0003512	\$1,059,992	18.89%	-\$1,059,992	-100.00%	-100.00%
8										
9	Alternate Feed	Service Charge				\$3,594	0.06%	\$0	0.00%	0.00%
10		- 1011								
11 12	Universal Servi									
12	First 833,000 All Excess kM			53,064,016	\$0.0015873	\$84.229				
14	Total Charge	VN		2,999,957,185	\$0.0001681	\$504,293 \$588,521	10.49%	\$59,781	10.16%	10.16%
15	rotai Charge					\$588,521	10,4976	\$59,781	10.10%	10.10%
16	Advanced Ener	rov Fund Rider	59		\$0.0895	\$5	0.00%	-55	-100.00%	-100.00%
17		97 1 212 1 22 2	30		40.0030	40		-6-	-100.0074	-100.00 /
18	KWH Tax Rider	r								
19	First 2,000 kV			0	\$0.00465	\$0				
- 20	Next 13,000 k	cWh s		Ó	\$0.00419	\$0				
21	Excess kWh			. 0	\$0.00383	\$0				
22 23	Total Charge	. · · · · ·		,		\$0	0.00%	\$0	0.00%	0.00%
23										
24	Energy Efficien	cy and Peak Demand Rider		3,053,021,201	\$0.0003662	\$1,118,016	19.92%	\$55,870	5.00%	5.00%
25								_		
26 27	Economic Deve	alopment Cost Recovery Rider			8.36693%	\$287,039	5.11%	-\$282,110	-98.28%	-98.28%
. 28	Exhanned Con-	ice Reliability Rider			C 1004001	#4.83.000 ·	0.000	# 400.000	00 7000	. 08 76W
29	Ennanced Serv	ICE Honabality Kider			5.49819%	\$188,623	3.36%	-\$186,280	-98.76%	-98.76%
29 30	gridSMART® R	lidae				\$0	0.00%	\$59	100.00%	100.00%
31	gricommenter					50 °	0.00%	908	100,00%	100.00%
32	Monongahela P	Power Rider				50	0.00%	\$375.216	100.00%	100.00%
33						20	0.0075	w010,210	100.00/10	144.44/4
34	Total IRP-D Tra	nsmission		3.018,199,162		\$5,612,840	100.00%	-\$3,356,950	-59.81%	-59.81%
	-									

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1am

Schedule E-4.1 Page 43 of 60 Witness Responsible: T. Zelina / A. Moore

		Class/ Descript. (8)				Test Year Propose	d	_	
Line No.	Rate Code (A)		Customer Bills (C)	Sales Kw / KwH _(D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Propo se d Total Revenue (I =:F+H)
1	SBS SI	tandby Service (Proposed GS-2)							
2	Transmission Vo								
3		•							
4	Distribution Char								
5	Customer Charge		12		\$806.10	\$9,673	82.29%		
6		tion Charge (\$ per kW)		240,000	\$0.00	\$0	0.00%		
7	Backup Energy (Charge (\$ per kWh)		101,700	\$0.0000000	\$0	0.00%		
8									
9	Universal Service								
10	First 833,000 k			101,700	\$0.0024312	\$247			
11	All Excess kWh	1		0	\$0.0001731	\$2	o 100		
12 13	Total Charga					\$247	2.10%		
14	Advanced Energy	v Fund Dider	12		\$0.0000	\$0	0.00%		
15	Patrono Chorg	3 T and 1406	12		40.0000	Ψ	0.00 /		
16	KWH Tax Rider								
17	First 2,000 kWi	h		18,000	\$0.00465	\$84			
18	Next 13,000 kV	Mh		83,700	\$0.00419	\$351			
19	Excess kWh	· ·		0	\$0.00363	\$0			
20	Total Charge					\$434	3.70%		
21									
22	Energy Efficiency	y and Peak Demand Rider		101,700	\$0.0000000	\$0	0.00%		
23									-
24	Economic Develo	opment Cost Recovery Rider			9.63500%	\$932	7.93%		
25							·		
26 27	Enhances Servic	a Reliability Rider			4.58062%	5443	3.77%		
27 28	andSMART® Ric		12		* * ~	610	0.10%		
29 29	grassiant in the		۲ ۲		\$1.00	\$12	0.10%	•	
30	Monongahela Po	wer Rider		101,700	\$0.0001229	\$12	0.11%		•
31	monoriganos ro			101,700	90.0001229	φ14	V-11/0		
32	Total SBS Transi	Mission	12	101,700		\$11,754	100.00%		\$11,754
~~									\$1.11.04

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original___Updated___Revised Work Paper Reference No(s); WP E-4.1am

Schedule E-4.1 Page 44 of 60 Witness Responsible: T. Zelina / A. Moore

					Current Annualize	¢	_		
Line No.	Rate Class/ Code Descript. (A) (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Totai (L)	increase Less Gas or Fuel Costs (N=F-K)	% Increase in Revenus Less Fuel Cost Revenus (N=M+K)	Total Revenue % Increa se {0)
1	SBS Standby Service								
2	Transmission Voltage								
3									
4	Distribution Charges								
5	Customer Charge	12		\$534.63	\$6,416	13.89%	\$3,258	50.78%	50.78%
6	Backup Reservation Charge (\$ per kW)		240,000	\$D.14	\$33,600	72.75%	-\$33,600	-100.00%	-100.00%
7	Backup Energy Charge (\$ per kWh)		101,700	\$0.0003512	\$36	0.08%	-\$36	-100.00%	-100.00%
8									
9	Universal Service Fund Rider								
10	First 833,000 kWh		101,700	\$0.0015873	\$1 61				
11	All Excess kWh		D	\$0.0001681	\$0				
12	Total Charge				\$161	0.35%	\$86	53.17%	53.17%
13					**		•	100 000	100 000
14 15	Advanced Energy Fund Rider	12		\$0.0895	\$1	0.00%	-\$1	-100.00%	-100.00%
15	KWH Tax Rider								
17	First 2.000 kWb		18,000	\$0.00465	\$84				
18	Next 13.000 kWh		83,700	\$0.00419	\$351				
19	Excess kWh		0	\$0.00363	\$0				•
20	Total Charge		. 0	\$0.00.00J	5434	0.94%	\$0	0.00%	0.00%
21	i otoli onorgo				v 10+	0.0170	40		
22	Energy Efficiency and Peak Demand Rider		101,700	\$0.00000000	\$0	0.00%	\$0	0.00%	0.00%
23			• •		-				
24	Economic Development Cost Recovery Rider			8.33091%	\$3,337	7.22%	\$2,405	-72.07%	-72.07%
25									
26	Enhanced Service Reliability Rider			5.49819%	\$2,202	4.77%	-\$1,759	-79.88%	-79.88%
27									
28 🧠	gridSMART® Rider				\$0	0.00%	\$12	100.00%	100.00%
29									
30	Monongahala Power Rider				\$0	0.00%	\$12	100.00%	100.00%
31	Trial 000 T					400.002			
32	Total SBS Transmission	12	101,700		\$46,187	100.00%	-\$34,432	-74.55%	-74.55%

Date Prepared: Feb. 28, 2011

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Dats: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1an - WP E-4.1ao

Schedule E-4.1 Page 45 of 60 Witness Responsible: T. Zollna / A. Moore

						Test Year Propose	d	_	
_ine No.	Rate Code (A)	Class/ Descript. (8)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revanue Less Gas or Fuel Cost Revenue {F}	% of Revenue to Total (G)	Increase Lass Gas or Fuel Costs (H)	Proposed Total Revenue (i =F+H)
1 2	OL O	utdoor Lighting							
3	Distribution Charg	065:							
4) pressure sodium	380.556		\$7.25	\$2,759.031	29.09%		
5		h pressure sodium	69,117		\$9.14	\$631,729	6.66%		
6		h pressure sodium floodlight	40.015		\$9.11	\$364.637	3.84%		
7		h pressure sodium floodlight	108.680		\$10.12	\$1,099,842	11.59%		
8		stal hatide floodlight	7,065		\$10.58	\$74,748	0.79%		
9		h metai hafida ficodight	69,617		\$10.62	\$739.333	7.79%		
10	awww.wingiting	n menti nomne norfinghir	00/01/		@10.02	¥,03,000	r.4 ¢ 10		
11	2,500 lumen inca	ndescent	1,149		\$9.75	\$11,203	0.12%		
12	4,000 lumen inca		122		\$10.51	\$1,203	0.01%		
13	7,000 iumen men		28.021		\$7.66	\$1,282	2.26%		
14	20,000 jumen men 20,000 jumen me				37.00 \$9.81	\$214,64 \$21,994	2.20%		
14 15			2,242			\$21,994 \$18,749	0.23%		
15	20,000 lumen me		1.466		\$12.38				
16 7	50.000 lumen me	nen y noodignt	1,165		\$14.18	\$16,520	0.17%		
18	7 000 hanna				*** **	ten set	0 7 02		
		cury lam on 12 ft. post	5,162		\$13.27	\$68.500	0.72%		
19	9,000 luman high	pressure sodium lamp on 12 ft. pos	24,095		\$13.77	\$331,788	3.50%		
20			_						
21		sure Sodium (special)	614		\$10.79	\$6,625	0.07%		
22	1,000 W Metal H:	alide Floodiight (special)	1.003		\$17.11	\$17,161	0.18%		
23									
24	Facilities Charges				-	.			
25		ns of secondary overhead circuit	239,395		\$6.34	\$1,517,765	16.00%		
26	Underground circ	wits in excess of 30 feet	40.831		\$0.89	\$36,340	0.38%		
27									
28	Universal Service							•	
29	First 833,000 ki			59,258,630	\$0.0024312	\$144.070			
30	All Excess kWh	1		0	\$0.0001731	<u>\$0</u>			
31	Total Charge					\$144.070	1.52%		
32								•	
33	Advanced Energy	Fund Rider	0		\$0.0000	\$0	0.00%		
34									
35	KWH Tax Rider						•		
36	First 2,000 kWr	1		69,258,630	\$0.00465	\$275,553		•	
37	Next 13,000 kV			0	\$0,00419	S 0			
38	Excess kWh	· · · · · · · · · · · · · · · · · · ·		Ő	\$0,00363	SO .			
19	Total Charge			5		\$275.553	2.90%		
40									
ŧi –	Energy Efficiency	and Peak Demand Rider		59,258,630	\$0,0000000	S Ú	0.00%		
42	,								
43	Economic Develo	pment Cost Recovery Rider			9.63500%	\$764,170	8.06%		
44					4.0000019	91,114			
45	Enhanced Servic	e Reliability Rider			4.58062%	\$363,298	3.83%		
46					4.0000270	www.u.uv	0,0070		
47	gridSMART@ Rid	er .			\$0.00	\$0	0.00%		
18	Supplementer Ind				w0.00		0.00 N		
49	Monongeheia Po	was Rider		59,258,630	\$0.0001229	\$7,283	0.08%		
	alonongeneta Po			33,230,030	30.0001223	<i>\$1,102</i>	0.00.0		
51 51	Total OL	-	1000.015	60 3 50 695		\$9,485,559	10 0.00%	\$0	\$9,485,55
21 - C	I D LOH I LAL	-	1,020,315	59,258,630		33,460,005	10/01/07/07/0		

Date Prepared: Feb. 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original__Updated__Revised Work Paper Reference No(s): WP E-4.1an - WP E-4.1ao

Schedule E-4.1 Page 46 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualize	ed	-		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	inorease Less Gas or Fuel Costs (M=F-K)	% increase in Revenue Less Fuel Cost Revanue (N=M+K)	Total Revenue % Increase (O)
_										
1 2	OL C	utdoor Lighting								
3	Distribution Cha	ges:								
4	9,000 lumen higi	n pressure sodium	380.556		\$4.76	\$1,811,447	29.39%	\$947,584	52.31%	52.319
5	22,000 tumen hij	h pressure sodium	69,117		\$5.66	\$391,202	6.35%	\$240,527	61.48%	61,489
6		h pressure sodium floodlight	40.015		\$5.64	\$225,685	3.66%	\$138,852	61.52%	61,529
7		n pressure sodium floodlight	108.680		\$6.26	\$680,337	11.04%	\$419.505	61.66%	61.669
8		etal halide floodlight	7.065		\$7.14	\$50,444	0.82%	\$24,304	48.18%	48.187
9		yh metal halide floodlight	69.617		\$6.57	\$457,384	7.42%	\$281,949	61.64%	61.649
10	ED,000 ILMOIT IO	grinneter newce wooduight,	05.017		40.07	10,10,10,10	1.42.70	4401,945	01.0475	01.047
11	2,500 lumen inca	time can't	1,149		\$6.91	\$7,940	0.13%	\$3,263	41,10%	41.10%
12	4,000 lumen inca				\$7.45	\$909	0.01%	\$373	41.07%	41.07%
13	7,000 lumen me		122			\$152,154	2.47%		41.07%	41.079
14	20,000 lumen m		28.021		\$5.43	\$15,582	0.25%	\$62,487	41.15%	41.15%
			2.242		\$6.95			\$6,412		
15	20,000 lumen m		1,466		\$8.77	\$12,857	0.21%	\$5,292	41.16%	41.169
16	50,000 lumen m	ercury floodlight	1.165		\$10.05	\$11,708	0.19%	\$4,811	41.09%	41.09%
17										
18		rcury lam on 12 ft, post	5.162		\$9.40	\$48,523	0.79%	\$19,977	41.17%	41.179
19	9,000 lumen higi	n pressure sodium lamp on 12 ft. pos	24.095		\$8.93	\$21 5,168	3.49%	\$116,620	54.20%	54.20%
20										
21		ssure Sodium (special)	614		\$6.67	\$4,095	0.07%	\$2,530	61.77%	61.77%
22 23	1,000 W Metal F	lalide Ficodlight (special)	1.003		\$10.58	\$10,812	0.17%	\$6,550	61.72%	61.72%
	E									
24	Facilities Charge				• • • •					
25		ans of secondary overhead circuit	239,395		\$4.05	\$969,550	15.73%	\$548,215	56.54%	56.549
26 27	Underground cir	cuits in excess of 30 feet	40,831		\$0.55	\$22,457	0.36%	\$13,883	61.82%	61.829
28	Universal Servic	• Event Birles								
29	First 833.000 k			60.050.000	40 0040000	\$94.061				
30				59,258,630	\$0.0016873					
	All Excess kW	n .		0	\$0.0001681	\$0				
31	Total Charge					\$94,061	1.53%	\$50,008	53,17%	53.179
32	· · · -									
33 3 4	Advanced Energ	y Fund Rider	0		\$0.0895	\$0	0.00%	\$0	0.00%	0.00%
3 4 35	(()))) (T)	· .								
	KWH Tax Rider									
36	First 2,000 kW			59,258,630	\$0.00465	\$275,553				
37	Next 13,000 ki	Mh .		Ó	\$0.00419	. \$0				
38	Excess kWh	· ·		Q	\$0.00363	<u>\$0</u>				
39	Total Charge					\$275,553	4.47%	\$0	0.00%	0.00%
40							s - 1			
41	Energy Efficienc	y and Peak Demand Rider		69,258,630	\$0.0000000	\$0	0.00%	\$0	0.00%	0.00%
42										
43	Economic Devel	opment Cost Recovery Rider			8.36693%	\$425,714	6.91%	\$338,456	79.50%	79.50%
44										
45	Enhanced Service	e Reliability Rider			5.49819%	\$279,751	4.54%	\$83,647	29.86%	29.86%
46										
47	gridSMART® Ri	der				\$0	0.00%	\$0	0.00%	0.00%
48								•-		
49	Monongaheta Pr	war Rider				\$0	0.00%	\$7,283	100.00%	100.00%
49										
49 50										

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated___Revised Work Paper Reference No(s): WP E-4.1ap

Schedule E-4.1 Page 47 of 60 Witness Responsible: T. Zeiina / A. Moore

					Ť	est Year Proposed	1	_	
Line No.	Rate Gode (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (i =F+H)
1	SL Str	reet Lighting							
2		• •						1	
з	Distribution Charg	ies:							
4	On Wood Pole								
5	7,000 lumen me		93,493		\$4.20	\$392,671	6.88%		
6	11,000 lumen m		9,048		\$4.86	\$43,973	0.77%		
7	20,000 lumen m		11,602		\$5.20	\$60,332	1.06%		
8	50,000 lumen m		12		\$9.43	\$113	0.00%		
9	•	h pressure sodium	637,051		\$3.82	\$2,433,535	42.66%		
10 11	•	igh pressure sodium	51.860		\$3.89	\$200,957	3.52%		
12		gh pressure sodium	75,075		\$4.46 \$4.83	\$334,835	5.87% 0.56%		
13		igh pressure sodium ih pressure sodium (post 1988)	6,660 23,528		\$10.55	\$32,168 \$248,220	4.35%		
14	-,	igh pressure sodium (post 1988)	1,706		\$10.62	\$18,118	0.32%		
15		igh pressure sodium (post 1988)	6,886		\$11.20	\$77,123	1.35%		
16		igh pressure sodium (post 1988)	968		\$11.58	\$11,209	0.20%		
17	00,000 10110-00	an present couldn't (poor root)	000		• • • • • •		0.2079		
18	On Metal Pole:								
19	7,000 lumen me	SCUry vapor	2,868		\$8.14	\$23,346	0.41%		
20	11,000 lumen m		0		\$9.56	\$0	0.00%		
21	20,000 lumen m	ercury vepor	4,440		\$10.26	\$45,554	0.80%		
22	50,000 lumen m	ercury vapor	708		\$14.98	\$10,606	0.19%		
23	9,000 lumen hig	h pressure sodium	3,994		\$9.50	\$37, 943	0.67%		
24	16,000 lumen hi	igh pressure sodium	2,110		\$9.55	\$20,151	0.35%		
25	22,000 lumen hi	igh pressure sódium	16,813		\$10.15	\$170,652	2.99%		
26		igh pressure sodium	8,602		\$10.51	\$90,407	1.58%	•	
27		h pressure sodium (post 1998)	. 60		\$23.22	\$1,393	0.02%		
28		igh pressure sodium (post 1998)	588		\$23.77	\$13,977	0.25%		,
29 30	50,000 lumen hi	igh pressure sodium (post 1998)	396		\$26.00	\$10,296	0.18%	-	
31	Multiple Lamps or	Metal Pole							
32	20,000 luman m		12		\$7.97	\$96	0.00%		
33		h pressure sodium	3,550		\$6.65	\$23,608	0.41%		
34		igh pressure sodium	0		\$6.71	\$0	0.00%		
35		igh pressure sodium	934		\$7,31	\$6,828	0.12%		
36		igh pressure sodium	156		\$7.67	\$1,197	0.02%		
37									
38	Post Top Unit								
39	7,000 lumen me	ercury vapor	0		\$8.06	\$0	0.00%		
40	9,000 lumen hig	h pressure sodium	10,380		\$6.77	\$70,273	1.23%		
41	9,000 lumen hig	h pressure sodium (post 1988)	19,140		\$9.76	\$186,806	3.27%		
42	On a stat Link (not)								
43 44	Special Lighting:	h pressure sodium	0.000		#44.07	ይባለ ሰብታ	0 5 407		
44 45		igh pressure sodium	2,808 36		\$11.07 \$9.90	\$31,0 8 5 \$356	0.54% 0.01%		
45	,	igh pressure sodium (Tiffin)	-30 180		\$9.90	\$356 \$4,073	0.01%		
40	Facilities Charges		160		ψες.03	4m,013	0.01 /8		
48	Receptacle Charges		3,288		\$2.11	\$6,938	0.12%		
		·= · · ·		· · · ·		40,000			

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Data: 3 MOS Actual & 9 MOS Estimated Type of Fifing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1ap

Schedule E-4.1 Page 48 of 60 Witness Responsible: T. Zelina / A. Moore

					ī	est Year Proposed	ī		
Line No.	Rate Code (A)	Class/ Descript, (B)	Customer Bil ls (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuei Costs (H)	Proposed Total Revenue (1=F+H)
1	SL	Street Lighting							
2		0 0							
3	Universa) Se	ervice Fund Rider							
4	First 833,0	000 KWh		66,771,476	\$0.0024312	\$162,335			
5	All Excess	; kWh		0	\$0.0001731	\$0			
ß	Total Charge	Ð				\$162,335	2.85%		
7	_								
8 9	Advanced E	nergy Fund Rider	11,979		\$0.0000	\$0	0.00%		
10	KWH Tax Ri	ider							
11	First 2,000			15.023,582	\$0.00465	\$69,860			
12	Next 13.00			22.348.413	\$D.00419	\$93,640			
13	Excess kV	-		29,399,481	\$0.00363	\$106,720			
14	Total Charge	9		· ·	•	\$270,220	4.74%		
15	· ·								
16	Energy Effic	iency and Peak Demand Rider		66,771,476	\$0.0000000	\$0	0.00%		
17									
18	Economic D	evelopment Cost Recovery Rider			9.63500%	\$444,D61	7.78%		
1 9									
20	Enhanced S	ervice Reliability Rider			4.58062%	\$210,796	3.70%		
21									
22	gridSMART	® Rider			\$0.00	\$0	0.00%		
23									
24	Monongahei	la Power Rider		66,771,476	\$0.0001229	\$8,206	0.14%		
25 22	Tatal OI					AT 704 47 1	100.000		Pr 70.1 101
26	Total SL		<u>11,</u> 979	66,771,476		\$5,704,454	100.00%	\$0	\$5,704,454

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original___Updated___Revised Work Paper Reference No(s): WP E-4.1ap Schedule E-4.1 Page 49 of 60 Witness Responsible: T. Zelina / A. Moore

						Surrent Annualized	l	_		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenus Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	íncrease Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase (O)
1	SL	Street Lighting							·	
2	31	Sirber Lighting								
3	Distribution	Charges:								
4	On Wood Po	ble								
5	7,000 lumi	en mercury vapor	93,493		\$3.67	\$343,119	7.03%	\$49,551	14.44%	14,44%
6	11,000 lun	nen mercury vapor	9,048		\$4.24	\$38,364	0.79%	\$5,610	14.62%	14.62%
7	20,000 Jun	nen mercury vapor	11,602		\$4.54	\$52,674	1.08%	\$7.658	14.54%	14,54%
8	50,000 lun	nen mercury vapor	12		\$8.23	\$99	0.00%	\$14	14.58%	14.58%
9	9,000 lume	en high pressure sodium	637,051		\$3.25	\$2,070,416	42.43%	\$363,119	17.54%	17.54%
10	16,000 lun	nen high pressure sodium	51,660		\$3.31	\$170,995	3.50%	\$29,963	17.52%	17.52%
11	22,000 lun	nen high pressure sodium	75,075		\$3.80	\$285,285	5.85%	\$49,550	17.37%	17.37%
12	50,000 lun	nen high pressure sodium	6,660		\$4.11	\$27,373	0.56%	\$4,795	17.52%	17,52%
13	9,000 lum	an high pressure sodium (post 1988)	23,528		\$8.98	5211,281	4.33%	\$36,939	17.48%	17.48%
14	16,000 lun	nen high pressure sodium (post 1988)	1,706		\$9.04	\$15,422	0.32%	\$2,695	17.48%	17,48%
15	22,000 lun	nen high pressure sodium (post 1988)	6,886		\$9.54	\$65,692	1.35%	\$11,431	17.40%	17.40%
16	50,000 lun	nen high pressure sodium (post 1988)	968		\$9.86	\$9.544	0.20%	\$1,665	17.44%	17.44%
17										
18	On Metal Po	le:								
19	7,000 ium	en mercury vapor	2,868		\$7.11	\$20,391	0.42%	\$2,954	14.49%	14,49%
20		nen mercury vapor	0		\$8.35	SO	0.00%	50	0.00%	0.00%
21	20,000 lun	nen mercury vapor	4,440		\$8.96	\$39,782	0.82%	\$5,772	14.5 1%	14.51%
22	50,000 lun	nen mercury vapor	708		\$13.08	\$9,261	0.19%	\$1,345	14.53%	14.53%
23	9,000 luma	en high pressure sodium	3,994		\$8.09	\$32,311	0.66%	\$5,632	17.43%	17,43%
24	16,000 lun	nen high pressure sodium	2,110		\$8.13	\$17,154	0.35%	\$2,996	17.47%	17.47%
25	22,000 lun	nen high pressure sodium	16,813		\$8.64	\$145,264	2.98%	\$25,388	17.48%	17.48%
26	50,000 lun	nen high pressure sodium	8,602		\$8.95	\$76,988	1.58%	\$13,419	17.43%	17.43%
27	9,000 luma	en high pressure sodium (post 1998)	60		\$23.22	\$1,393	0.03%	\$0	0.00%	0.00%
28	22,000 lun	nen high pressure sodium (post 1998)	588		\$23.77	\$13,977	0.29%	\$0	0.00%	0.00%
29		nen high pressure sodium (post 1998)	396		\$24.09	\$9,540	0.20%	\$750	7.93%	7.93%
30										
31		nps on Metal Pole:						+		• • - • •
32		nen mercury vapor	12		\$6.96	\$84	0.00%	\$12	14.51%	14.51%
33		en high pressure sodium	3,550		\$5.66	\$20,093	0.41%	\$3,515	1 7.49%	17.49%
34		ten high pressure sodium	0		\$5.71	\$0	0.00%	\$0	0.00%	0.00%
35		nen high pressure sodium	934		\$6.22	\$5,809	0.12%	\$1,018	17.52%	
36	50,000 lun	nen high pressure sodium	156		\$6.53	\$1,019	0.02%	\$178	17.48%	17.46%
37	B									
38	Post Top Un		~					**	0.000	
39		en mercury vapor	0		\$7.04	\$0	0.00%	\$0	0.00%	0.00%
40		an high pressure sodium	10,380		\$6.77	\$70,273	1.44%	\$0	0.00%	0.00%
41	9,000 IUMA	en high pressure sodium (post 1988)	19,140		\$8.31	\$159,053	3.26%	\$27,753	17.45%	17,45%
42	On a shall be to	14								
43	Special Ligh	-	* * * *		A	A		* *		
44		en high pressure sodium	2,808		\$11.07	\$31,085	0.64%	\$0	0.00%	0.00%
45		nen high pressure sodium	36		\$8.43	\$303	0.01%	\$53	17.44%	17.44%
46	16,000 lun	nen high pressure sodium (Tiffin)	180		\$22.63	\$4,073	0.08%	\$0	0.00%	0.00%
47										
48	Facilities Ch				-					
49	Receptacle I	Charge	3,288		\$1.84	\$6,050	0.12%	\$888	14.67%	14.67%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1ap

Schedule E-4.1 Page 50 of 60 Witness Responsible: T. Zelina / A. Moore

					Current Annualized					
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M≡F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase {0]
1	SL	Street Lighting								
2										
3	Universal Serv	rice Fund Rider								
4	First 833,000) kWh		66,771,476	\$0.0015873	\$105,986				
5	All Excess ki	Wh		Q	\$0.0001681	\$0				
6	Total Charge					\$105,986	2.17%	\$56,348	53.17%	53.17%
7										
8	Advanced Ene	argy Fund Rider	11,979		\$0.0895	\$1,072	0.02%	-\$1,072	-100.00%	-100.00%
9										
10	KWH Tax Ride									
11	First 2,000 k			15,023,582	\$0.00465	\$69,860				
12	Next 13.000			22,348,413	\$0.00419	\$93,640				
13	Excess kWh			29.399.481	\$0.00363	\$106,720		**		0.00%
14 15	Total Charge					\$270,220	5.54%	\$0	0.00%	0.00%
16	Enormy Efficien	ncy and Peak Demand Rider		66,771,476	\$0.0000000	\$0	0.00%	\$0	0.00%	0.00%
17	Energy Enroise			00,111,410	40.000000	φu	0.00 /0		0.0070	0.007
18	Economic Dev	elopment Cost Recovery Rider			8.36693%	\$330.843	6.78%	\$113,219	34.22%	34.22%
19	2001.01110 201				0.000007	0000.010	0.0014	41.00		
20	Enhanced Ser	vice Reliability Rider			5.49819%	\$217,408	4.46%	-56.612	-3.04%	-3.04%
21						,				
22	gridSMART® F	Rider				\$0	0.00%	\$0	0.00%	0.00%
23	•									
24	Monongahela	Power Rider				\$0	0.00%	\$8,206	100.00%	100.00%
25										
26	Total \$L		11,979	66,771,476		\$4,879,697	100.00%	\$824,757	16.90%	16.90%

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1aq - WP E-4.1ar

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Schedule E-4,1 Page 51 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d	_	
Lin e No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Proposed Totai Revenue (I ≖F+H)
1	EHG E	lectric Heating General (Proposed	GS-2)						
2 3	Dishibutian Ohas								
3	Distribution Charge Customer Charge		5,989		\$12.85	\$76.959	7.70%		
4 5	Energy Charge (5		0,909	23,402,333	\$0.0000000	576,909 \$0	0.00%		
5		in excess of 30 KW (\$ per kW)		23,402,333 121,877	\$0.0000000	\$597,197	59.72%		
7	Demand Charge	II excess of 50 KW (\$ per kW)		121,077	34.9U	\$397, I97	Q9.12%		
8	Universal Service	Fund Rider							
9	First 833,000 k			23,402,333	\$0.0024312	\$56,896			
10	All Excess kWh			20,402,000	\$0.0001731	\$0			
11	Total Charge	1		v	40.0001731	\$56.896	5.69%		
12	rolar onarge					φ	0.00 10		
13	Advanced Energy	v Fund Rider	5,989		\$0.0000	\$0	0.00%		
14	Autorio a Lingig	y tand taken	0,000		40.0000	**	0.0070		
15	KWH Tax Rider								
16	First 2,000 kWh	n		9,185,472	\$0.00465	\$42,712			
17	Next 13.000 kV			13.041.079	\$0.00419	\$54,642			
18	Excess kWh	•		1,175,782	\$0.00363	\$4,268			
19	Total Charge			-1	*******	\$101,623	10.16%		
20						+			
21	Energy Efficiency	and Peak Demand Rider		23,402,333	\$0.0026773	\$62,655	6.27%		
22	5,,			,,	,				
23	Economic Develo	opment Cost Recovery Rider			9.63500%	\$64,955	6.50%		
24						+- ·			
25	Enhanced Servic	a Reliability Rider			4,58062%	\$30,881	3.09%		
26		- •					• •		
27	gridSMART® Ric	ler	5,989		\$1.00	\$5,989	0.60%		
28	•				•••==				
29	Monongahela Po	wer Rider		23,402,333	\$0.0001229	\$2,876	0.29%		
30				,		• •			
31	Total EHG		5,989	23,402,333		\$1,000,030	100.00%	\$0	\$1,000,030

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1aq - WP E-4.1au

Schedule E-4.1 Page 52 of 60 Witness Responsible: T. Zelina / A. Moore

		• • • • • • • • • • • • • • • • • • •				Current Annualize	d	_		·
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total	Increase Less Gas or Fuel Costs (M=F-K)	% Increase In Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase (O)
1	EHG EI	ectric Heating General						-		
2										
3	Distribution Char									
4	Customer Charge		5,989		\$21.96	\$131,518	18.27%	-\$54,560	-41.48%	-41.48%
5	Energy Charge (\$			23,402,333	\$0.0132863	\$310,930	43.20%	-\$310,930	-100.00%	-100.00%
8	Demand Charge	in excess of 30 KW (\$ per kW)		11,572	\$1.18	\$13.665	1.90%.	\$5 83,542	4273.48%	4273.48%
7										
8	Universal Service									
9 10	First 833,000 kl			23,402,333	\$0.0015873	\$37,147				
11	All Excess kWh Total Charge			0	\$0.0001681	\$0 \$37,147	5.16%	\$19,749	53.17%	53.17%
12	TOTAL CHAIGE					437. 147	0.10%	\$19,14 8	33.17%	53.1776
13	Advanced Energy	Fund Bider	5.989		\$0.0895	\$538	0.07%	-\$536	-100.00%	-100.00%
14	Advances Chorgy	i ulla kuel	0,908		\$0.0080	2000	0.0178	-4000	-10030076	-100.007
15	KWH Tax Rider									
16	First 2,000 kWh	1		9,185,472	\$0.00465	\$42,712				
17	Next 13.000 kW			13,041,079	\$0,00419	\$54,642				
18	Excess kWh			1,175,782	50.00363	\$4,268				
19	Total Charge					\$101,623	14.12%	\$0	0.00%	0.00%
20	_									
21	Energy Efficiency	and Peak Demand Rider		23,402,333	\$0.0026073	\$61,017	8.48%	\$1,638	2.68%	2.68%
22										•
23	Economic Develo	pment Cost Recovery Rider			8.36693%	\$38,162	5.30%	\$26,793	70.21%	70.21%
2 4										
25	Enhanced Servic	e Reliability Rider			5.49819%	\$25,077	3.48%	\$5,803	23.14%	23.14%
26										
27	gridSMART® Rid	er					0.00%	\$5,989	100.00%	100.00%
28 20	Alexandral- C-						0.000	A0 070	100.000	400 000
29 30	Monongahela Por	Wer Kloef					0.00%	\$2,876	100. 00%	100.00%
30 31	Total EHG		5,989	23,402,333		\$719,665	100.00%	\$280.365	38.96%	38,96%
31			5,999	23,402,333	•		100.00%		30.00%	30.0070

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original___Updated___Revised Work Paper Reference No(s): WP E-4.1as Schedule E-4.1 Page 53 of 80 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d	_	
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I=F+H)
1	ehs ei	ectric Heating Schools (Propo	sed GS-2)						
2									
З	Distribution Charg								
4	Customer Charge		12		\$12.85	\$155	1.00%		
5	Energy Charge (\$			423,167	\$0.000000	\$0	0.00%		
6 7	Demand Charge ((SperkW)		2,043	\$4.90	\$10,011	64.67%		
8	Universal Service	Fund Rider							
9	First 833,000 kV	Mh		423,167	\$0.0024312	\$1,029			
10	All Excess kWh			0	\$0.0001731	\$0			
11	Total Charge					\$1,029	6.65%		
12									
13	Advanced Energy	Fund Rider	12		\$0.0000	\$0	0.00%		
14									
15	KWH Tax Rider								
16	First 2,000 kWh			24,000	\$0.00465	\$112			
17	Next 13,000 kW	/h		148,219	\$0.00419	\$621			
18	Excess kWh			250,948	\$0.00363	<u>\$911</u>			
19 20	Total Charge					\$1,644	10.62%		
21	Enermy Efficiency	and Peak Demand Rider		423.167	\$0.0026773	\$1,133	7.32%		
22	CHOLÔÀ CHICHOLOÀ	and Feak Demand Rider		423,107	30.0020773	\$1,130	1.2670		
23	Economic Develo	pment Cost Recovery Rider			9.63500%	\$979	6.33%		
24		prinsing close (Abbortory (Close			3.00000 //	40.0	0.0070		
25	Enhanced Service	a Reliability Rider			4.58062%	\$466	3.01%		
26		s rockering rado			4.00002.00	4.44			
27	gridSMART® Rid	er	12		\$1.00	\$12	0.08%		
28	g								
2 9	Monongahela Por	wer Rider		423,167	\$0.0001229	\$52	0.34%		
30	-								
31	Total EHS		12	423,167		\$15,480	100.00%	\$0	\$15,480

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference Nc(s): WP E-4.1as

Schedule E-4.1 Page 54 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualize	id	-		
Line No.	Rate Code (A)	Classi Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Mo st Current Rate (J)	Current Annualized Revenue Less Ges or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M¤F-K)	% Increase in Revenue Less Fuel Cost Révenue (N=M+K)	Total Revenue % Increase (0)
1	EHS E	lectric Heating Schools								
2										
З	Customer Charg		12			\$0	0.00%	\$155	100.00%	100.00%
4	Energy Charge (423,167	0.0021744	\$920	20.60%	-\$920	-100.00%	-100.00%
5	Demand Charge	: (\$ per kW)				\$C	0.00%	\$10,011	100.00%	100.00%
6										
7										
8	Universal Service					****				
9 10	First 833,000 k All Excess kWi			423,167	\$0.0015873	\$672				
11	Total Charge	n.		Û	\$0.0001681	\$0	15.04%	\$357	53.17%	53.17%
12	rotai Griarge					4072	10.04%	\$301	00.1776	55.17%
13	Advanced Energ	w Fund Rider	12		\$0.0895	\$1	0.02%	-\$1	-100.00%	-100.00%
14	Advanced Litery		12		00.000	Ψi	0.0270	· •	-100.0078	-100.00 %
15	KWH Tax Rider									
16	First 2,000 kW	h		24,000	\$0.00465	\$112				
17	Next 13,000 kV			148,219	\$0.00419	\$621				
18	Excess kWh			250,948	\$0.00363	\$911				
19	Total Charge					\$1,644	36.79%	\$0	0.00%	0.00%
20 .	•									
21	Energy Efficiency	y and Peak Demand Rider		423,167	\$0.0026073	\$1,103	24.70%	\$30	2.68%	2.65%
22										
23	Economic Devel	opment Cost Recovery Rider			8.36693%	\$77	1.72%	\$902	1172.19%	1172.19%
24										
.25	Ennanced Servic	e Reliability Rider			5.49619%	\$51	1.13%	\$415	820.39%	820.39%
26 27	gridSMART® Rid	· .				\$0	0.000	***	100 000/	100.00%
∡r 28	grooman ing hid	der				\$U	0.00%	\$12	100.00%	100.00%
29	Monongahela Po	nuer Dider				\$0	0.00%	\$52	100.00%	100.00%
30	mononganeta Pt					20	0.00%	•0Z	100.00%	100.00%
31	Total EHS		12	423,167		\$4,467	100.00%	\$11,012	246.50%	246.50%
••			14	420,107		VT,TVI	100.0070	¥11,¥14	6-10-100 /0	

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Data; 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1at Schedule E-4.1 Page 55 of 60 Witness Responsible: T. Zelina / A. Moore

						Test Year Propose	d	_	
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (i =F+H)
1	SS	School Service (Proposed GS-2)							
2									
3	Distribution	h Charges:							
4	Customer (2,216		\$12.85	\$28,476	1.90%		
5	Demand Cl	harge (\$ per kW)		188,385	\$4.90	\$923,087	61.48%		
6		arge - 1st 300 KWH/sq ft (\$ per KWH)		20,846,715	\$0.0000000	\$0	0.00%		
7	Energy Cha	arge - additional KWH (\$ per KWH)		24,086,655	\$0.0000000	\$0	0.00%		
8									
9	Universal S	Service Fund Rider							
10	First 833,	.000 kWh		44,933,370	\$0.0024312	\$109,242			
11	All Exces	s kWh			\$0.0001731	50			
12	Total Charg	ge				\$109,242	7.28%		
13									
14	Advanced I	Energy Fund Rider	2,216		\$0.0000	\$0	0.00%		
15									
16	KWH Tax F	Rider							
17	First 2,00	lû kWh 👘		4,064,859	\$0.00465	\$18,902			
18	Next 13,0	000 kWh		18,009,549	\$0.00419	\$75,460			
19	Excess k	Wh		22,858,962	\$0.00363	\$82,978			
20	Total Charg	qe				\$177,340	11.81%		
21		-							
22	Energy Effi	ciency and Peak Demand Rider		44,933,370	\$0.0026773	\$120,300	8.01%		
23	0.	•		,,	•••••				
24	Economic (Development Cost Recovery Rider			9.63500%	\$91,683	6.11%		
25		•		•					
26	Enhanced :	Service Reliability Rider			4.58062%	\$43,587	2.90%		
27									
28	gridSMAR7	® Rider	2,216		\$1.00	\$2,216	0.15%		
29			_,0		¥1.39	+=,= 10			
30	Monongahe	ela Power Rider		44,933,370	\$0.0001229	\$5,522	0.37%		
31				,	40.000.000	**,***			
32	Total SS		2.216	44,933,370		\$1,501,453	100.00%	\$0	\$1,501,453

Data: 3 MOS Actual & 9 MOS Estimated Type of Filling: ► Original___Updated___Revised Work Paper Reference No(s): WP E-4.1at

Schedule E-4.1 Page 56 of 60 Witness Responsible: T. Zelina / A. Moore

						Current Annualize	d	-		
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M≖F-K)	% Increase In Revenue Less Fuel Cost Revenue {N=M+K}	Total Revenue % Increase {0}
. 1	SS 54	chool Service								
2										
3	Distribution Char	ges:								
4	Customer Charge	- 9	2,216		\$31.84	\$70,557	6.51%	-\$42,082	-59.64%	-59.64%
5	Demand Charge						0.00%	\$923,087	100.00%	100.00%
6		1st 300 KWH/sq ft (\$ per KWH)		20,846,715	\$0.0124738	\$260.038	23.98%	-\$260,038	-100.00%	-100.00%
7	Energy Charge -	additional KWH (\$ per KWH)		24,086,655	\$0.0124738	\$300,452	27.70%	-\$300,452	-100.00%	-100. 00%
8										
9 10	Universal Service First 833,000 kt			44,933,370	\$0.0015873	\$71,323				
11	All Excess kWh			44,955,570	\$0.0001681	\$0				
12	Total Charge			Ŭ	20.000 IBO F	\$71,323	6.58%	\$37,919	53.17%	53.17%
13	iotor ontargo					φ1 1,0±0	0.0074	401,010	0011110	
14	Advanced Energy	y Fund Rider	2,216		\$0.0895	\$198	0.02%	-\$198	-100.00%	-100.00%
15	•		,		••••••					
16	KWH Tax Rider									
17	First 2,000 kWh			4,064,859	\$0.00465	\$18,902				
18	Next 13,000 kV	Vin		18.009,549	\$0.00419	\$75,460				
19	Excess kWh			22,858,962	\$0.00363	\$82,978			6 6 6 6	
20 21	Total Charge		,			\$177,340	16.35%	\$0	0.00%	0.00%
22 23	Energy Efficiency	and Peak Demand Rider		44,933,370	\$0.0026073	\$117,155	10.80%	\$3,145	2.68%	2.68%
24	Economic Develo	pment Cost Recovery Rider			8.36693%	\$52,799	4.87%	\$38,884	73.64%	73.64%
25 26	Enhanced Servic	e Reliability Rider			5.49819%	\$34.696	. 3.20%	\$8,891	25.63%	25.63%
27			•	+						
28.	gridSMART® Rid	ler .			-	\$0	0.00%	\$2,216	100.00%	100.00%
29 30	Monongahela Po	wat Bidan				50	0.00%	\$5,522	100.00%	100. 00 %
30 31	Mononganeia Po	MÁL L'IÓGE				20	0.00%	30,522	100.00%	100.00%
32	Total SS		2,216	44,933,370		\$1,084,558	100.00%	\$416,894	38.44%	38.44%
				44,000,070						

OHIO POWER COMPANY Case No. 11-352-EL-AIR Annualized Test Year Revenues at Proposed Rates vs. Most Current Rates (Electric and Gas Utilities)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated___Revised Work Paper Reference No(s): WP E-4.1au

Schedule E-4.1 Page 57 of 60 Witness Responsible: T. Zelina / A. Moore

					· · · · · · · · · · · · · · · · · · ·	Test Year Propose	d	+	
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	Increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (i =F+H)
1	FL PUMP-Q Flo	od Pumps							
2									
3	Distribution Charg	es:							
4	Customer Charge		312		\$7.85	\$2,449	13.32%		
5	Energy Charge - 1	st 1,500 KWH		243,982	\$0.01747	\$4,262	23.19%		
6	Energy Charge - a	dditional KWH		271,377	\$0.01747	\$4,741	25.79%		
7									
₿	Prompt Payment (Discount		515,359	\$0.00000	\$0	0.00%		
9									
10	Universal Service								
11	First 833,000 kV	/h		515,359	\$0.0024312	\$1,253			
12	All Excess kWh			0	\$0.0001731	\$0			
13	Total Charge					\$1,253	6.82%		
14									
15	Advanced Energy	Fund Rider	312		\$0.0000	\$0	0.00%		
16	MARIN, MIJ.								
17	KWH Tax Rider					64 070			
18 19	First 2,000 kWh Next 13,000 kW			294,609	\$0.00465	\$1,370 \$905			
20	Excess kWh	n		215,880	\$0.00419	318			
20	Total Charge			4,870	\$0.00363	\$2,292	12.47%		
22	rotal charge					9 2,292	12.41 70		
23	Energy Efficiency	and Peak Demand Rider		515,359	\$0.0026773	\$1,380	7.51%		
24	chorgy chlorency	and to dak politand types		010,000	40.0020173	W1,000	1.0170		
25	Economic Develo	ment Cost Recovery Rider			9.63500%	\$1,103	6.00%		
26	Essilenting Bothio				3.0350076	01,100	0.007		
27	Enhanced Service	Rellability Rider			4.58062%	\$525	2.85%		
28									
29	gridSMART® Ride		312		\$1.00	\$312	1.70%		
30					÷	•			
31	Monongahela Pov	ver Rider		515,359	\$0.0001229	\$63	0.34%		
32	-				,	-			
33	Total FL PUMP-Q		312	515,359		\$18,381	100.00%	\$0	\$18,38

OHIO POWER COMPANY Case No. 11-352-EL-AIR Annualized Test Year Revenues at Proposed Rates ys. Most Current Rates (Electric and Gas Utilities)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ➤Original__Updated__Revised Work Paper Reference No(s): WP E-4.1au

Schedule E-4.1 Page 58 of 60 Witness Responsible: T. Zelina / A. Moore

					-	Current Annualize	d	_		
Line No.	Code De:	lass/ C. script. (B)	ustomer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Curreni Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% at Revenue to Total (L)	increase Less Gas or Fuel Costs (M=F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase {0}
1	FL PUMP-Q Flood Pumps									
2										
3	Distribution Charges:									
4	Customer Charge		312		\$4.30	\$1,342	8.93%	\$1,108	82.56%	82.56%
5	Energy Charge - 1st 1,500 KW			243,982	\$0.01637	\$3,984	26.58%	\$269	6.73%	6.73%
67	Energy Charge - additional KW	/H		271,377	\$0.01637	\$4,442	29.56%	\$299	6.73%	6.73%
á					** ****	6 - 4-	2 100/	****	100.001	100.050/
9 9	Prompt Payment Discount			515,359	(\$0.00100)	-\$515	-3.43%	\$515	-100.00%	-100.00%
10	Universal Service Fund Rider									
11	First 833,000 kWh			515,359	\$0.0015873	\$ 818				
12	All Excess kWh			515,358	\$0.001681	\$0				
13	Total Charge			Ŭ	20.0001661	\$818	5.44%	\$435	53,17%	53.17%
14	i otali olioligo						0.11 <i>N</i>	0,00	00111 /0	00.1170
15 16	Advanced Energy Fund Rider		312		\$0.0895	\$28	0.19%	-\$28	-100.00%	-100.00%
17	KWH Tax Rider									
18	First 2,000 kWh			294,609	\$0.00465	\$1,370				
19	Next 13,000 kWh			215,880	\$0.00419	\$905				
20	Excess kWh			4,870	\$0.00363	\$18				
21	Total Charge					\$2,292	15.25%	\$0	0.00%	0.00%
22										
23	Energy Efficiency and Peak De	mand Rider		515,359	\$0.002 6073	\$ 1,3 44	8.94%	\$36	2.68%	2.68%
24						•				
25	Economic Development Cost F	Recovery Rider			8.36693%	\$775	5.16%	\$328	42.39%	42.39%
26 27		*					0.000/	\$15	3.01%	3.01%
28	Enhanced Service Reliability R				5.49819%	\$509	3.39%	\$15	3.01%	3.01%
28 29	aridSMART® Rider					\$0	0.00%	\$312	100.00%	100.00%
30	gnosmarci e Rider					V¢	0.00%	\$¢1∡	100.00%	100.00%
30	Monongahela Power Rider					\$0	0.00%	\$63	100.00%	100.00%
32	monohyaneta r uwet ruuet					40	0.0070	664	100.00 %	100.0076
33	Total FL PUMP-Q		312	515,359		\$15,028	100.00%	\$3,353	22.31%	22.31%
			212	010,008		φ10,020	100.0078	40,000	EE.0170	22.017

OHIO POWER COMPANY Case No. 11-352-EL-AIR Annualized Test Year Revenues at Proposed Rates vs. Most Current Rates (Electric and Gas Utilities)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): WP E-4.1av Schedule E-4.1 Page 59 of 60 Witness Responsible: T. Zellna / A. Moore

						Test Year Propose	d	_	
Line No.	Rate Code (A)	Class/ Descript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Proposed Rate (E)	Proposed Annualized Revenue Less Gas or Fuel Cost Revenue (F)	% of Revenue to Total (G)	increase Less Gas or Fuel Costs (H)	Proposed Total Revenue (I ==F+H)
1	JOINT SVC Joi	nt Service Territory							
2	Transmission Volt	age							
3									
4	Distribution Charo	88							
5	Customer Charge		12		\$806.10	\$9,673	0.96%		
6	Demand Charge (\$ per kW)		1,988,019	\$0.00	\$0	0.00%		
7	Energy Charge (\$	per kWh)		1,433,628,931	\$0.0000000	\$0	0.00%		
8									
9	Universal Service	Fund Rider							
10	First 833,000 kM	۳n (9,998,000	\$0.0024312	\$24,302			
11	All Excess kWh			1,423,632,931	\$0.0001731	\$246,431			
12	Total Charge					\$270,733	26.83%		
13									
14	Advanced Energy	Fund Rider	12		\$0.0000	\$0	0.00%		
15									
16	KWH ⊺ax Rider								
17	First 2,000 kWh			0	\$0.00465	\$0			
18	Next 13,000 kVM	h		0	\$0.00419	\$0			
19	Excess kWh			0	\$0,00363	<u>\$0</u>			
20	Total Charge					\$0	0.00%		
21									
22	Energy Efficiency	and Peak Demand Rider		1,433,628,931	\$0.0003845	\$551,230	54.62%		
23									
24	Economic Develop	ment Cost Recovery Rider			9.63500%	\$932	0.09%		
25									
26	Enhanced Service	Reliability Rider			4.58062%	\$443	0.04%		
27									
28	gridSMART® Ride	r	12		\$1.00	\$12	0. 00%		
29									
30	Monongahela Pow	/er Rider		1,433,628,931	\$0.0001229	\$176,193	17.46%		
31									
32	Total ORMET		12	1,433,628,931		\$1,009,217	100.00%	\$0	\$1,009,217

OHIO POWER COMPANY Case No. 11-352-EL-AIR Annualized Test Year Revenues at Proposed Rates vs. Most Current Rates (Electric and Gas. Utilities)

Schedule E-4.1 Page 60 of 60 Witness Responsible: T. Zelina / A. Moorr

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	· · · ·					Surrent Annualized	l	-		
Line No.	Code De	Class/ Iscript. (B)	Customer Bills (C)	Sales KW / KWH (D)	Most Current Rate (J)	Current Annualized Revenue Less Gas or Fuel Cost Revenue (K)	% of Revenue to Total (L)	increase Less Gas or Fuel Costs (M#F-K)	% Increase in Revenue Less Fuel Cost Revenue (N=M+K)	Total Revenue % Increase (O)
1	JOINT SVC Joint Service T	emitory								
2	Transmission Voltage									
3	-									
4	Distribution Charges									
5	Customer Charge		12		\$534.63	\$6,416	0.27%	\$3,258	50.78%	50.78%
6	Demand Charge (\$ per kW)			1,988,019	\$0.43	\$854,8 48	36.63%	- \$ 85 4,848	-100.00%	-100.00%
7	Energy Charge (\$ per kWh)			1,433,628,931	\$0.0003512	\$503,490	21.58%	-\$503,490	-100.00%	-100.00%
8										
9	Universal Service Fund Rider									
10	First 833,000 kWh			9,996,000	\$0.0015873	\$15,867				
11	All Excess kWh			1,423, 632,93 1	\$0.0001681	<u>\$239,313</u>				
12	Total Charge					\$255,179	10.93%	\$15,554	6.10%	6.10%
13								-	(00.00)	100.000
14	Advanced Energy Fund Rider		12		\$0.0895	51	0.00%	-\$1	-100.00%	-100.00%
15										
16	KWH Tax Rider					* 5				
17 18	First 2,000 kWh			0	\$0.00465	\$0				
19	Next 13,000 kWh Excess kWh			0	\$0.00419	\$0				
20	Total Charge			0	\$0.00363	<u>\$0</u>	0.00%	\$0	0.00%	0.00%
20	Total Unarge					30	0.00%	20	0.00%	0.00%
22	Energy Efficiency and Peak De	emand Rider		1,433,628,931	\$0,0003662	\$524,995	22,50%	\$26,235	5.00%	5.00%
23	•••									
24	Economic Development Cost F	Recovery Rider			8.33091%	\$113;696	4.87%	-\$112,764	-99.18%	-99.18%
25			-							
26	Enhanced Service Reliability R	tider			5.49819%	\$75,037	3.22%	-\$74,594	-99.41%	-99.41%
27										
- 28	gridSMART® Rider					\$0	0.00%	\$12	100.00%	100.00%
29										
30	Monongahela Power Rider					\$0	0.00%	\$176,193	100.00%	100.00%
31										
32	Total ORMET		12	1,433,628,931		\$2,333,663	100.00%	-\$1,324,446	-56.75%	-56.75%

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Date Prepared: February 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(9):

Schedule E-5 Page 64 of 100 Witness Responsible: T. Zefine / A. Moore

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Schedule E-5 Page 65 of 100 Witness Responsible: T. Zelina / A. Moore

% Change (J=E+H)		9.82%	9.17%	8.85%	8.84%	8.77%	8.73%	8.69%	8.67%	6.77%	6.01%	5.75%	5.62%	5.54%	5.48%	5.45%	5.42%		20.80%	20.62%	20.60%	20.59%	20.59%	20.58%	20.58%	20.58%
Proposed Total Bill Including Fuel (I= D+G)		108.51	206.38	303.70	401.01	498.33	595.64	692.96	790.27	110.17	209.51	308.39	407.27	506.15	605.02	703.90	802.78		103.92	197.00	289.62	382.25	474.87	567.49	660.12	752.74
Current Total Bill Including <i>Fuel</i> (H = C+G)		98.89	189.05	278.75	368.44	458.14	547.83	637.53	727.22	103.18	197.63	291.61	385.60	479.58	573.57	667.55	761.53		86.03	163.32	240.15	316.98	393.80	470.63	547.46	624.29
Amnualitæd Fuel Cost Additions to Bill (G)		31.30	63.60	95,40	127.20	159.01	190.81	222.61	254.41	31,80	63.60	95.40	127.20	158.01	190.81	222.61	254.41		31.80	63.60	95.40	127.20	159.01	190.81	222.61	254.41
% fncrease (F = E+C)		14.48%	13.82%	13.61%	13.60%	13.44%	13.39%	13.36%	13.33%	9.79%	8.87%	8.55%	8.30%	8.29%	8.22%	. 8.17%	8.13%	•	32,99%	33.78%	34.18%	34.40%	34.63%	34.61%	34.66%	34.73%
Doilar Increase (E=D-C)		9.71	17.33	24.95	32.67	40.19	47.81	55.43	63.05	6.9	11.88	16.78	21.67	26.56	31.46	36.35	41.25		17.89	33.68	49.48	65.27	81.07	96.36	112.66	128.45
Proposed Biti (D)		76.81	142.78	208.29	273.81	339.32	404.83	470.35	535.86	78.37	146.91	212.99	280.06	347.14	414.22	481.29	548.37		72.12	133.40	194.22	255.04	316.86	376.69	437.61	498.33
Current Bill (C)		67,09	125.45	183.34	241.24	299.13	367.03	414.92	472.81	71.38	134.03	196.21	258.39	320.58	382.76	444.94	507.12		54.23	99.71	144.74	189.77	234.80	279.83	324.85	369.88
Level of Usage (B)		1,000	2,000	3,000	4,000	5,000	6.000	7.000	8,000	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000		1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000
Level of Demand (A)																										
·		ak 30%								ak 35%									ak 15%							
Rats Code	RS-TOD	On - Peak	Off-Peak							On - Peak	Off-Peek							R9-ES	On - Peak	Off-Peak						
Line No.	-	(1	m	ষ	ŝ	9	2	\$	σĘ	2 =	12	13	7	15	16	17	8 9 9	⊉ କ	2	22	ន	54	25	92 7	27	58

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(5):

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sed Bak Ing % Changa (G) (J=E+H)			:	294.32 16.32%					765.25 16.19%				394.76 12.37%							24.33 10.48%	· .	•					37.44 18.08%				
Current Proposed Tatal BRI Total Bill Including Including Fuel Fuel (H = C+G) (I= D+G)									658.60 76				351.29 36							22.02									٣		
Annualized CI Fuel Cost To Additions Inc to Bill (H		31.80	63.60	95.40	127.20	159.01	190.81	222.61	254.41	31.80	63.60	95.40	127.20	159.01	190.81	222.61	254.41	40 T		4.94	6.58	13.17	23.04	32.91	49.37	65.83	131.65	263.30	329.13	493.70	822.83
% (ncrease (F = E+C)		25.92%	26.07%	26.21%	26.28%	26.32%	26.35%	26.37%	26.39%	19.81%	19.49%	19.43%	19.40%	19.38%	19.37%	19.36%	19.35%	5 EG0.	10.35%	13.51%	15.76%	20.64%	23.62%	25.04%	26.26%	26.91%	28.05%	28.66%	28.78%	26.95%	20,19%
Dollar Increase (E=D-C)		15.16	28.23	41.30	54.37	67.44	80.51	93.58	106.65	12.44	22.78	33.13	43.47	53.82	64.16	74.50	84.85	550	1 47	2.31	3.15	6.51	11.55	16.50	24.90	33.39	66-99	134.19	167.79	251.79	419.78
Proposed Bill (D)		73.68	136.53	198.91	261.30	323.68	386.07	448.45	510.84	75,24	139.65	203.60	267.55	331.50	395.45	459.40	523.35	11 02	15.66	19.30	23.12	36.05	60.43	82.82	120.14	157.45	305.79	602.46	750.79	1.121.63	1 857 71
Current Bill (C)		58.52	108.29	157.61	206.93	256.24	305.56	364.88	404.19	62.80	116.87	170.48	224.08	277.69	331.29	384.90	438.50	11 20	14 19	17.08	19.97	31.54	48.89	66.24	95.15	124.06	238.80	468.27	583.01	869.84	1 437 90
Level of Usuge (B)		1,000	2.000	3,000	4,000	5,000	6,000	2,000	8,000	1.000	2.000	3,000	4,000	5,000	6,000	2,000	8,000	EO.	201	150	200	400	200	1,000	1,500	2,000	4,000	8,000	10,000	15,000	25,000
Level of Demand (A)																															
Rata Code	RS-ES	On - Peak 20%	Off-Peak 80%							On - Peak 25%	Off-Peak 75%							 1000 tool													
Line No,	1 R8	5	ო	ব	ŝ	9	7	æ	a ç	2 ≂	12 0		14	15	16	17	18			ន	24	ង	7 8	27	ষ্ঠ	29	R	3	32	33	평

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original_Updated_Revised Work Paper Reference No(9):

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% Change {. J=E +H}		6.13%	. 14.57%	20.18%	23.54%	24.76%	25.38%		5.72%	13.84%	19.20%	22.39%	23.54%	24.13%	6.33%	13.16%	18.28%	21.31%	22.40%	22.97%
Proposed Total B#I Including Fuet (1= D+G)		55.50	100.06	189.18	366.51	543.83	721.16		56.64	102.34	193.74	375.62	557.51	739.39	57.78	104.62	198.30	384.74	671.18	757.62
Current Total Bill Inchuding Fuel (H = C+G)		52.29	87.33	157.42	296.65	435.91	575.16		63.57	89.89	162.54	306.90	451.27	595.64	54.85	92.45	167.66	317.14	466.63	616.12
Annualized Fuel Cost Additions to Bili (G)		16.46	32.91	65.83	131.65	197.48	263.30		16.46	32.91	65.83	131.65	197.48	263.30	16.46	32.91	66.83	131.65	197.48	263.30
% Increase (F = E+C)		8.95%	23.38%	34.68%	42.33%	45.26%	46.82%		8.26%	21.84%	32.26%	39.21%	41.86%	43.25%	7.62%	20.43%	30.09%	36.44%	38.84%	40.11%
Dollar Increase (E≖D-C)		3.21	12.73	31.76	69.84	107.92	146.00		3.07	12.44	31.20	68.72	106.23	143.75	2.93	12.16	30.64	67.59	104.55	141.50
Proposed Bili (D)		39.04	67.15	123.36	234.85	346.35	457.85		40.18	69.43	127.91	243.97	360.03	476.08	41.32	. 71.70	132.47	253.09	373.70	494.31
Current B#I (C)		35.83	54 .42	91.59	165.01	238.43	311.85		37.11	56.98	96.71	175.25	253.79	332.33	38.39	58.54	101.83	185.49	269.15	352.81
Level of Usage (B)		600	1,000	2,000	4,000	6,000	8,000		500	1,000	2,000	4,000	6,000	B,000	500	1,000	2,000	4,000	6,000	8,000
L e vel of Demand (A)									*	2					10	~			,	
Rate Code	GS-1-ES		ff-Peak 90%						On-Peak 15%						On-Peak 209	H-Peak 80%				
Lin a No.	1 68	0	0	4	ŝ	ę	~	æ	0 8	5	Ŧ	12	13	14	16 0	17 0	18	19	20	2

Date Prepared: February 28, 2011

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> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

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Rate Code	Levej af Demand	Level of Usage	Current Bill	Proposed BII	Dollar Increase	% Increase	Fuel Cost Additiona to Bill	Total Bill Including Fuel	Total Bill Including Fvel	% Change
	(A)	(8)	(C)	(0)	(E=D-C)	(F = E+G)	(0)	(H = C+G)	()= D+Q)	(J=E+H)
1 GS-1									-	
		600	49.76	54.74	4,98	10.01%	19.75	69.51	74.49	7.17%
		200	55.54	82.21	ð.66	11.99%	23.04	78.58	86.24	6.48%
*		800	61.33	69.67	8.34	13.60%	26.33	87.66	96.00	9.52%
.0		006	67.11	77.13	10.02	14.93%	29.62	96.73	106.75	10.36%
6		1.200	84 .46	99.52	15.08	17.83%	39.60	123.95	138.01	12 15%
		1,400	96.02	114.44	18.42	19.18%	46.08	142.10	160.52	12.96%
		1,600	107.59	129.37	21.78	20.24%	52.66	160.25	182.03	13.59%
		1,800	119.15	144.30	26.14	21.10%	59.24	178.40	203.54	14.09%
		2,100	136,46	166.64	30.18	22.12%	69.12	205.57	235.76	14.68%
_		2,400	153.67	188.89	36.22	22.92%	78.99	232.66	267.88	15.14%
12		2,700	170.88	211.14	40.26	23.56%	88.87	259.74	300.005	15.50%
8		2,800	176.61	218.58	41.94	23.75%	92.16	268.77	310.71	15.60%
14		3,000	168.09	233.39	45.30	24.08%	98.74	286.83	332.13	15.79%
15		3,200	199.56	248.22	48.66	24.38%	106.32	304.88	353.54	15.96%
16		3,500	216.77	270.47	53.70	24.77%	115.20	331.97	385,67	16.18%
		3,600	222.51	277.89	55.38	24.89%	118.49	341.00	396.38	16.24%
		4,000	245.46	307.56	62.10	25.30%	131.65	377.11	439.21	16.47%
		4,500	274.14	344,64	70.50	25.72%	148.11	422.25	492.75	16.70%
GS-2-									•	
Rec. Lighting		8	22.87	17.99	(4.88)	-21.34%	1.50	24.37	19.49	-20.03%
		100	26.03	21.27	(4.76)	-18.28%	3.00	29.03	24.27	-16.40%
		150	20.20	24.58	(4.64)	-15.89%	4.50	33.70	20.02	-13.77%
		200	32.36	27.84	(4.52)	-13.98%	6.00	38.36	33.84	-11.78%
		400	45.01	40.98	(4.03)	-8.96%	12.00	57.01	52.98	-7.07%
		202	63.99	60.68	(3.30)	-5.16%	21.00	84.99	81.69	-3.89%
		1,000	82.96	60.39	(2.58)	3.10%	30.00	112.97	110.39	-2.28%
		1,500	114.69	113.23	(1.36)	-1.18%	45.01	159.60	158.23	-0.85%
		2,000	146.22	146.07	(0.15)	-0.10%	60.01	206.22	206.08	-0.07%
31		4,000	271.80	276.51	4.71	1.73%	120.02	391.82	396.53	1.20%
~		8,000	522.98	537.40	14.42	2.76%	240.04	763.01	777.43	1.89%
		10,000	648.56	667.84	19.28	2.97%	300.05	948.61	967.68	2.03%
		15,000	962.63	993.94	31.41	3.26%	450.07	1,412.60	1,444.01	2.22%

> Data: 3 MCS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

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Cola Durand Lange Hi Durand Lense Lense <thl< th=""><th>Line</th><th>Rate</th><th>Level of</th><th>Level of</th><th>Gument</th><th>Proposed</th><th>Dollar</th><th>\$</th><th>Annualized Fuel Cost Additions</th><th>Current Total Bill Inchuding</th><th>Proposed Total Bill Including</th><th>·</th></thl<>	Line	Rate	Level of	Level of	Gument	Proposed	Dollar	\$	Annualized Fuel Cost Additions	Current Total Bill Inchuding	Proposed Total Bill Including	·
G2 Control Control <thcontrol< th=""> <thcontrol< th=""> <thcontro< th=""><th>No.</th><th>Code</th><th>Demand</th><th>Usage</th><th></th><th></th><th>increase</th><th>Increase Increase</th><th>to BHI</th><th>Fuel 1941</th><th>Fuel</th><th>% Change</th></thcontro<></thcontrol<></thcontrol<>	No.	Code	Demand	Usage			increase	Increase Increase	to BHI	Fuel 1941	Fuel	% Change
Secondry 11 <			(4)	6)	2	6	(c=n-c)		(9)	(9+0 = H)	(F U+G)	
Secondary 1	÷	GS-2										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2	Secondary	10	1,000	113.22	126.85	13.63	12.04%	30.00	143.23	156.85	9,51%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ო		10	2,000	160.48	173.75	13.27	8.27%	60.01	220.49	233.76	6.02%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4		10	3,000	207.28	220.20	12.92	6.23%	. 90.01	297.29	310.21	4.35%
23 5.00 36.45 46.46 45.96 13.25% 5.002 5.0125 5.55.41 750.64	ŋ		25	2,500	243.51	293.38	49.86	20.48%	75.01	318.52	368.39	15.85%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	¢		25	5,000	360.51	408.49	48.98	13.59%	150.02	510.53	559.51	9,59%
0 $0,00$ 469.90 $6/0.16$ 110.28 23.97 160.02 06102 720.16 7 7 7500 875.29 $10,010$ 878.89 $10,013$ $10,012$ 11071.97 7 7 15000 1077.29 11652.7 11652.7 11672.7 11761.96 1071.97 7 7 15000 1077.29 11652.7 11672.7 11761.96 11071.97 7 7 11652.7 11652.7 11672.7 1177.66 11071.97 7 22500 11071.97 11652.7 1201.60 11071.97 11071.97 100 22000 1374.66 1169.37 2211.8 2251.6 11071.97 100 22000 1376.66 11663.7 2211.8 200.07 1272.8 1262.7 2214.22 200 1260.76 1260.77 2234.66 1167.67 2166.77 2162.75 2166.77 2166.75 <	4		25	1,500	477.50	525.60	48.10	10.07%	225.03	702.54	750.64	6,85%
50 $10,000$ 653.86 102.34 108.46 15636 300.05 903.34 1100.13 75 7.500 877.28 105.46 16637 15006 107.47 1494.65 75 7.500 877.28 107647 75206 901.32 710741 710724 221040 7107124 71001046 7100124	æ		50	6.000	459.90	670.15	110.25	23.97%	150.02	609.92	720.18	18.08%
50 $15,00$ $827,88$ $10,64,61$ $106,73$ $10,64,61$ $106,73$ $10,64,61$ $107,137$ $10,737$ $10,737$ $10,64,61$ 75 $15,000$ $10,77,77$ $11,62,71$ $15,94,22$ $260,01$ $10,77,27$ $10,64,31$ $10,74,16$ $10,727$	¢		50	10,000	683.89	802.38	108.49	15.63%	300.05	993.94	1,102.43	10.92%
75 7.500 64633 77064 25.235 20123 10137 104534 75 15.000 102727 1195227 149536 45007 147734 104534 75 22.000 1374.06 159637 16356 6750 147734 104527 100 20.000 1876.36 158637 22736 6750 147734 1045272 145746 100 20.000 1876.36 158637 21376 60000 1876.36 2166.46 2000 156637 21457 22754 20002 2166.36 21376 20026 146746 4563.56 7163.66 2166.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 2166.46 2366.23 <	5		50	15,000	927.88	1,034.61	106.73	11.50%	450.07	1,377.95	1,484.68	7.75%
75 $15,000$ $1027,27$ $1165,27$ $166,00$ $16,39,46$ $166,39$ $455,10$ $107,34$ $166,534$ 75 $20,000$ $1357,466$ $1,125,17$ $210,36$ $55,10$ $2,145,26$ $1,423,76$ 100 $20,000$ $1,555,426$ $1,125,17$ $210,16$ $2,165,46$ $2,165,46$ 100 $20,000$ $1,555,42$ $2,04,326$ $2,233,36$ $1,23,76$ $1,122,72$ $2,145,76$ 200 $20,000$ $1,555,42$ $2,04,326$ $2,233,36$ $2,233,36$ $2,233,36$ $2,236,57$ $2,165,76$ $2,165,76$ 200 $1,0000$ $2,646,12$ $2,228,60$ $1,173,756$ $1,200,18$ $2,865,12$ 200 $4,000,16$ $4,55,12$ $4,55,12$ $4,56,12$ $2,94,36$ 200 $4,000,00$ $2,345,66$ $1,17,69$ $1,200,18$ $2,966,57$ $2,94,36$ 200 $4,50,60$ $1,200,18$ $4,50,60$ $1,200,18$ $2,869,37$ $2,964,56$	÷		75	7,500	676.29	846.93	170.64	25.23%	225.03	901.32	1,071.97	18.93%
75 22,500 $1,374,06$ $1,599,42$ $165,36$ $12,016$ $2,046,17$ $2,244,52$ 100 20,000 $1,375,46$ $1,596,37$ $22,145$ $30,005$ $1,472,72$ $1,422,76$ $2,244,56$ 100 20,000 $1,375,46$ $2,044,22$ $22,3396$ $12,374,66$ $2,904,36$ $2,904,36$ $2,904,36$ $2,904,36$ $2,904,36$ $2,944,36$ $2,944,36$ $2,904,36$ $2,900,14$ $2,375,36$ $2,944,36$ $2,900,14$ $2,762,36$ $2,944,36$ $2,902,16$ $2,900,14$ $2,762,36$ $2,943,56$ $2,145,27$ $2,345,36$ $2,145,37$ $2,345,36$ $2,145,37$ $2,345,36$ $2,102,17$ $2,345,36$ $2,102,17$ $2,345,36$ $2,102,17$ $2,345,36$ $2,102,17$ $2,345,36$ $1,102,202,10$ $2,145,27$ $2,145,27$ $2,145,27$ $2,345,36$ $1,020,210$ $2,145,27$ $2,345,36$ $1,022,17$ $2,345,36$ $1,022,17$ $2,345,36$ $1,022,17$ $2,345,36$ $1,022,17$ $2,345,36$ $1,022,17$ $1,02$	12		75	15,000	1,027.27	1,195,27	168.00	16.35%	450.07	1,477.34	1,645.34	11,37%
100 1000 882.67 $1,12.71$ 25.89% 300.05 $1,127.72$ $1,422.76$ $1,422.76$ 100 $20,000$ $1,367.46$ $1,366.37$ 27.51 16.70% 000.00 $1,167.46$ $2.945.66$ 200 $1,567.46$ $2,228.02$ 472.66 20.92% 800.14 $2.770.38$ $2.945.66$ 200 $0,000$ $1,567.42$ $2.228.02$ 472.66 $2.355.51$ $2.365.51$ $2.365.61$ $2.362.66$ $2.365.51$ $2.362.66$ $2.365.51$ $2.362.66$ $2.365.51$ $2.362.61$ $2.367.36$ $2.365.51$ $2.362.61$ $2.367.67$ $1.367.32$ $2.362.51$ $2.366.61$ $2.366.61$ $2.366.61$ $2.366.51$ $2.362.51$ $2.366.51$ $2.362.51$ $2.362.61$ $2.366.51$ $2.362.51$ $2.362.61$ $2.362.51$ $2.362.61$ $2.362.51$ $2.362.61$ $2.362.51$ $2.362.61$ $2.362.51$ $2.362.61$ $2.362.51$ $2.362.61$ $2.362.51$ $2.362.61$ $2.362.61$ $2.362.56$ $2.362.616$	ę		75	22,500	1,374.06	1,539.42	165.35	12.03%	675.10	2,049.17	2,214.52	8.07%
100 20,000 1,557,36 1,557,36 1,557,36 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,753 2,764 2,763 2,944,36 2,946,34 2,966,36 2,946,	14		100	10,000	892.67	1,123.71	231.04	25.88%	300.05	1, 192.72	1,423.76	19.37%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15		100	20,000	1,357.86	1,535.37	227.51	16.76%	60.009	1.957.95	2,185.46	11.82%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16		100	30,000	1,820.24	2,044.22	223.98	12.31%	900.14	2,720.38	2,944.36	8.23%
200 $40,000$ $2.680.19$ $3,145.74$ 465.55 17.37% $1,200.16$ $3,880.37$ $4,345.62$ 200 $50,000$ $3.64.455$ $4.65.345$ $4.65.56$ 17.37% $1,200.16$ $3,880.37$ $4,345.62$ 200 $50,000$ $3.64.455$ $5.633.52$ $5.835.50$ $7,022.76$ $5,835.50$ $7,022.76$ $50,000$ $100,000$ $6.647.18$ $7,825.86$ $1,197.30$ 7.775% $1,500.23$ $5,883.77$ 500 $100,000$ $6.647.18$ $7,825.86$ $1,197.30$ 7.775% $1,500.23$ $5,835.70$ $7,022.76$ 500 $100,000$ $6.647.18$ $7,825.86$ $1,176.75\%$ $1,500.23$ $5,835.70$ $14,821.82$ $1,000$ $200,000$ $13,625.07$ $1,102.03$ $12,97\%$ $4,500.69$ $13,459.79$ $14,821.82$ $1,000$ $200,000$ $17,875\%$ $0,001.46$ $11,686.47$ $11,686.47$ $11,686.47$ $11,686.47$ $11,686.47$ $11,686.47$ $1,000$ $200,000$ $17,875\%$ $0,001.32$ $2.406.12$ $23,406.76$ $21,826.75$ $21,826.75$ $21,826.75$ $21,826.75$ $1,000$ $200,000$ $17,875\%$ $6,000.42$ $21,826.75$ $21,826.75$ $21,826.75$ $21,826.75$ $42,00.76$ $21,826.75$ $42,00.76$ $1,000$ $20,000$ $25,836.10$ $7,130.64$ $7,736.42$ $23,01.76$ $21,826.75$ $42,00.76$ $21,826.75$ $42,00.76$ $2,000$ $200,000$ $25,836.10$ $7,130.625$ $46,836.16$	17		200	20,000	1,765.42	2,228.02	472.60	26.92%	800.09	2,355.51	2,828.12	20.06%
200 $60,000$ $3.604.95$ $4,063.45$ $4.86.50$ $12.72%$ $1.800.28$ $5,405.23$ $5.883.73$ 500 $50,000$ $6,647.18$ $7,266.85$ $1.179.66$ $17.75%$ $3.000.46$ $9,647.64$ $10,827.31$ 500 $150,000$ $6,632.61$ $1.167.03$ $2.762%$ $3.000.46$ $9,647.64$ $10,827.31$ 500 $150,000$ $6,637.01$ $11,040.13$ $2.465.55$ $11,179.66$ $11,162.03$ $3.645.95$ $7.022.76$ 500 $100,000$ $8.655.01$ $11,1040.13$ $2.465.26$ $3.000.46$ $11,626.72$ $2.1629.62$ $1,000$ $200,000$ $13.256.84$ $15,626.70$ $2.246.96$ $17,87%$ $4.500.66$ $11,626.72$ $1,000$ $200,000$ $17,87%$ $2.00.46$ $11,636.47$ $14,00.56$ $2,000,000$ $17,87%$ $2.669.46$ $17,87%$ $9,001.38$ $20,816.65$ $2,000,000$ $17,87%$ 2.021727 $2.334.60$ $17,37%$ $9,001.38$ $20,816.65$ $2,000,000$ $17,826.42$ 2.021727 $2.334.60$ $17,37%$ $9,001.38$ $20,216.87$ $2,000,46$ $10,0002$ $25,369.47$ $7,266.42$ $2.1,367.76$ $21,029.53$ $4,336.56$ $2,000,000$ $17,3766$ $17,37%$ $9,001.38$ $20,01.38$ $21,027.66$ $4,335.56$ $21,027.66$ $2,000,000$ $10,000$ $50,21190$ $7,236.42$ $20,0176$ $8,009.66$ $14,305.65$ $21,34.15$ $7,000$ $1,00,000$ $10,219.59$ <	8		200	40.000	2,680.19	3,145.74	466,55	17.37%	1,200.18	3,880.37	4,345.92	12.00%
500 50,000 4,335,27 5,532,56 1,197,30 27,62% 1,500,23 5,835,50 7,02,79 500 150,000 6,647,18 7,855,56 1,175,56 3,000,46 19,457,64 10,827,31 500 150,000 150,000 8,655,01 1,162,03 12,97% 4,500,66 13,459,79 14,1827,82 500 100,000 8,655,01 1,1040,13 2,405,12 2,300,06 14,1827,82 14,005,82 1,000 100,000 13,235,84 1,162,03 12,307% 9,001,38 26,884,05 20,218,65 1,000 200,000 17,882,67 2,369,56 17,87% 9,001,38 26,884,05 29,216,55 3,000 23,056,46 16,461,51 7,336,47 17,405,59 71,002,38 44,333,56 3,000 23,156,69 0,7130,64 17,365,47 17,306,47 45,005,59 4,307,178 3,000 23,415,69 60,0138 17,364,7 17,306,44 17,364,74 19,325,55 42,071,78 3	13		200	60,000	3,604.95	4,063.45	458.50	12.72%	1,800.28	5,405.23	5,883.73	B.48%
500 100,000 6,647,18 7,826,85 1,176,96 17,75% 3,000,46 9,647,64 10,827,31 500 100,000 6,936,10 10,117.13 1,162,03 12,97% 3,000,46 9,647,64 10,827,31 500 100 0000 8,355,01 10,104,013 2,340,612 7,345 3,000,46 14,367,57 14,367,57 1,000 100 13,288,54 15,628,70 2,340,613 2,340,65 17,367 6,000,82 19,259,76 21,827,62 1,000 200,000 13,288,54 15,628,70 2,334,60 13,06% 9,001,38 26,884,05 29,218,06 3,000 200,000 25,833,97 33,070,40 7,130,64 17,366% 9,001,38 28,884,05 29,218,06 7,182,535 42,071,78 3,000 200,000 23,415,69 60,456,17 7,130,64 17,366% 29,013,65 21,032,52 64,333,58 3,000 60,0138 26,885,10 7,130,64 17,366% 26,001,38 21,641,52 <td< td=""><td>8</td><td></td><td>200</td><td>50,000</td><td>4,335.27</td><td>6.632.56</td><td>1,197.30</td><td>27.62%</td><td>1.500.23</td><td> 5,835.50 </td><td>7,032.79</td><td>20.52%</td></td<>	8		200	50,000	4,335.27	6.632.56	1,197.30	27.62%	1.500.23	 5,835.50 	7,032.79	20.52%
500 150,000 8,956,10 10,121,13 1,162.03 12,97% 4,500,69 13,459,79 14,821,82 1,000 200,000 8,955,01 11,040,13 2,406,13 2,406,13 2,406,13 2,346,17 14,040,59 14,821,82 1,000 200,000 17,882,61 11,040,13 2,346,61 7,306,46 11,635,47 14,040,59 1,000 200,000 17,882,61 17,06% 17,06% 9,001,38 26,183,65 42,071,78 3,000 30,000 26,833,61 7,130,64 17,36% 9,001,38 28,384,05 29,218,65 3,000 30,000 26,833,610 7,130,64 17,36% 9,001,38 28,384,05 59,718,65 64,333,56 3,000 000 60,231,56 60,456,51 7,130,52 64,333,56 57,708,22 64,333,56 7,000 10,000 60,231,50 17,150,53 16,395,51 21,003,26 21,032,52 64,333,56 7,000 10,000 60,231,50 16,296,51 17,366 <	5		500	100,000	6,647.18	7,826.85	1,179.66	17.75%	3,000.46	9,647,64	10,827.31	12.23%
1,000 10,000 8,55.01 11,040.13 2,405.12 27,85% 3,000.46 11,635.47 14,040.59 1,000 200,000 13,285.84 15,626.70 2,389.46 17,87% 6,000.82 19,559.76 21,829.62 1,000 300,000 17,826.87 2,334.60 13,06% 9,001.38 28,684.05 20,216.66 3,000 30,000 217,827 2,334.60 13,06% 9,001.38 28,684.05 20,717.68 3,000 30,000 29,705.46 48,856.10 7,130.64 13,06% 16,001.36 34,856.5 20,717.88 3,000 900.000 29,705.46 48,856.10 7,130.64 13,06% 18,002.76 57,708.22 64,383.66 3,000 900.000 60,231.90 7,130.64 7,030.64 13,077 59,415 37,454.45 36,454.15 7,000 700,000 61,231.90 7,130.64 13,17% 21,003.44 149,977.00 7,000 121,915.90 136,508.87 15,7168 13,51% 63	23		500	150,000	8,959.10	10,121.13	1,162.03	12.97%	4,500.69	13,459.79	14,621,82	8.63%
1,000 200,000 13,258.64 15,628.70 2,369.96 17,87% 6,000.92 19,259.76 21,829.62 1,000 300,000 17,882.67 20,217.27 2,334.60 13,06% 9,001.38 26,884.06 29,218.66 3,001 800,000 17,882.67 20,217.27 2,334.60 13,06% 9,001.38 26,884.06 29,218.66 3,001 800,000 33,076.46 48,356.10 7,236.42 28,017 8,001.38 28,483.66 29,433.86 3,001 800,000 33,415.69 60,450.64 7,130.64 13,07% 21,004.14 80,4138.38 84,338.86 3,001 900,000 53,415.69 60,450.64 7,130.64 13,17% 21,004.14 80,4138.33 84,337.46 7,000 700,000 60,231.90 17,130.93 16,809.03 21,003.22 64,338.86 27,004.14 80,4138.33 87,484.85 13,415 7,000 10,07,916.56 18,738.6 13,61% 21,003.22 64,338.16 13,415 13,32.64 <t< td=""><td>8</td><td></td><td>1,000</td><td>100.000</td><td>8,635.01</td><td>11,040.13</td><td>2,405.12</td><td>27.85%</td><td>3,000.46</td><td>11,635.47</td><td>14,040.59</td><td>20.67%</td></t<>	8		1,000	100.000	8,635.01	11,040.13	2,405.12	27.85%	3,000.46	11,635.47	14,040.59	20.67%
1,000 300,000 17,88.67 20,217.27 2,334.60 13,06% 9,001.38 26,884.05 29,218.66 3,000 26,833.97 33,070.40 7,256.42 28,017% 9,001.38 26,884.05 29,218.66 3,000 26,833.97 33,070.40 7,256.42 28,017% 9,001.38 24,835.55 42,071.78 3,000 900,000 39,105.46 46,551 7,130.64 17,36% 18,002.76 57,708.23 44,838.56 3,000 900,000 59,415.69 60,460.51 7,034.82 21,003.22 64,333.86 7,000 700,000 60,231.90 77,130.33 16,899.33 21,003.22 64,333.86 7,000 14,00,000 60,231.90 77,130.33 16,394.75 21,003.22 61,34.15 7,000 1,400,000 61,234.00 107,976.56 18,736.56 21,030.22 98,134.15 7,000 2,100,000 121,915.99 13,650.87 16,503.86 16,49,677.00 7,000 2,100,000 121,915.99	5		1,000	200,000	13,258.84	15,628.70	2,369.96	17.87%	6,000.92	19,259.76	21,629,62	12.30%
3.000 3.0,000 26,333.97 3.3,070.40 7,286.42 28,01% 9,001.30 34,835.35 42,071.78 3.000 50,000 39,705.46 48,856.10 7,130.64 17,96% 18,002.76 57,708.22 64,333.65 3.001 50,000 39,705.46 48,856.10 7,130.64 17,96% 18,002.76 57,708.22 64,333.65 3.001 900,000 53,415.69 60,460.61 7,034.82 13,002.76 57,708.22 64,333.65 7.001 700,000 63,215.69 60,460.61 7,130.32 16,399.72 13,14,15 7.002 14,00,000 61,234.00 107,97.66 18,736.61 18,34% 42,006.44 139,977.00 7.000 2,100,000 121,915.99 13,656.87 13,51% 63,009.66 16,49,977.00	32		1,000	300,000	17,882.67	20.217.27	2,334.60	13.06%	9.001.38	26,884.05	29,218.66	8.63%
3,000 600,000 39,705.46 46,836.10 7,130.64 17,306% 18,002.76 57,708.22 64,838.66 3,000 900,000 53,415.69 60,460.61 7,034.82 13,17% 27,004.14 80,413.83 87,464.65 7,000 770,000 60,231.90 77,130.93 16,899.03 28,06% 21,003.22 81,236.12 98,134.15 7,000 1,400,000 91,234.00 107,970.56 16,735.56 16,34% 42,009.44 149,977.00 7,000 21,000,000 91,234.00 120,950.56 16,533.86 13,54% 42,009.44 149,977.00 7,000 21,001,000 121,915.69 136,508.87 15,538.86 13,51% 63,009.66 18,425.65 201,519.53	R		3,000	300,000	26,833.97	33,070.40	7,236.42	28.01%	9,001.38	34,835.35	42,071.78	20.77%
3,000 900,000 53,415,69 60,450,51 7,034,82 13,17% 27,004,14 80,415,83 87,454,55 7,000 700,000 60,231,90 77,130,93 16,869.03 28,06% 21,003,22 81,235,12 98,134,15 7,000 1,400,000 91,234,00 107,970,56 16,735,56 18,34% 42,006,44 13,69,47 149,977.00 7,000 2,100,000 121,915,59 136,508,87 15,538 13,51% 63,009,66 18,425,65 201,519,53	27		3,000	600,000	39,705.46	46,836.10	7,130.64	17.96%	18,002.76	57,708.22	64,838.86	12.36%
7,000 700,000 60,231.90 77,130.93 16,999.03 28,06% 21,003.22 61,235,12 98,134.15 7,000 1,400,000 91,234,00 107,970,56 16,735,56 18,34% 42,006.44 133,240.44 149,977.00 7,000 2,100,000 121,915,99 136,508,87 16,563.68 13,51% 63,009.66 18,925.65 201,519.53	28		3,000	900'000	53,415.69	60,450.61	7,034,82	13.17%	27,004.14	80,419.83	87,454.65	8.75%
7,000 1,400,000 91,234,00 107,970,56 16,735,56 16,34% 42,006,44 133,240,44 149,877,00 7,000 2,100,000 121,915,99 136,508,87 16,563,88 13,51% 63,009,66 164,925,65 201,519,53	R		7,000	700,000	60,231.90	77,130.93	16,899.03	28.06%	21,003.22	81,235.12	98,134.15	20.80%
7.000 2,100,000 121,915.99 136,509.87 16,563.88 13.61% 63,009.66 164,925.65 201,519.53	8		7,000	1,400,000	91,234.00	107,970.56	18,736.56	18.34%	42,006,44	133,240.44	149,977.00	12.55%
	व्य		7,000	2,100,000	121,915.99	138,509.87	16,593.88	13.61%	63,009.66	184,925.65	201,519.53	8.97%

> Deta: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 70 of 100 Witness Responsible: T. Zelina / A. Moore

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Denter Lange Bit En Frame Increase	Rate	Level of	Level of	Current	Pronosed	Dollar	24	Annualized Fuel Cost Additions	Current Total Bill Including	Proposed Total Bill Including	, .
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Demand (A)	Usage (B)	lia CC	1 8	Increase (E=D-C)	Increase (F = E+C)	to Bill (G)	Fuel (H = C+G)	Fuel (= D+G)	% Change (J=E+H)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$											
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1	1.000	186.60	158.99	(27.61)	-14.80%	27.23	213.84	186.22	-12.91%
3.000 $270,64$ $261,32$ $(20,37)$ $61,05$ $61,05$ $61,37$ $333,01$ <th< td=""><td></td><td>10</td><td>2,000</td><td>233.35</td><td>205.39</td><td>(27.97)</td><td>-11.98%</td><td>54.42</td><td>287.82</td><td>269.85</td><td>-9.72%</td></th<>		10	2,000	233.35	205.39	(27.97)	-11.98%	54.42	287.82	269.85	-9.72%
2500 302.47 305.63 316 1.04% 68.06 373.71 533.71 5100 418.19 55.04 7.26% 7.26% 7.26% 7.36.17 739.66 5100 438.19 55.6 7.26% 7.26% 7.26% 7.36.17 739.66 5100 484.81 55.3 1.40% 1.36.17 739.57 738.17 739.56 5100 867.70 1.00862 51.26 7.26% 72.73 969.66 1.477.73 75000 1867.70 1.00862 51.26 5.72% 727.34 969.66 1.477.73 75000 1867.70 1.00862 51.26 5.72% 272.34 969.66 1.477.73 75000 1334.26 1.37.29 1.004.4 7.26% 72.74 1.005.71 1.477.73 75000 1.37.29 1.477.73 100.44 7.26% 272.34 1.437.86 1.475.73 75000 1.37.46 1.37.46 1.36.770 1.447.85 1.44.28		5	3,000	279.64	261.32	(28.32)	-10.13%	81.70	361.34	333.02	-7.84%
5000 418.19 22.0.47 2.28 0.64% 138.17 56.43 556.64 5000 444.81 56.23 1.40 0.00% 210.425 738.17 799.55 5000 444.81 567.23 1.308.17 66.64 1.36.17 65.26 7.26% 222.34 998.66 1.417.13 7.500 687.10 1.008.62 5.30% 100.51 1.36.47 650.64 7.500 687.10 1.008.25 5.32% 400.51 1.36.17 987.14 7.500 10.137.29 1.137.41 10.004 23.66 1.477.13 987.14 7.500 10.133.25 1.137.41 10.306 997.66 1.477.13 199.16 987.14 7.500 10.108.25 1.55% 272.24 199.62 1.417.13 7.500 1.377.29 1.460.7 7.306 997.66 198.14 7.500 1.366.7 1.56% 272.24 196.51 1.417.13 7.500 1.366.7 1		25	2,500	302.47	305.63	3.16	1.04%	68.08	370,55	373.71	0.85%
7,500 533,31 535,31 1,40 0.25% 738,17 739,17 650,43 7,500 857,70 1,001682 5,028 5,337 738,17 739,56 738,17 739,56 7,500 857,70 1,001682 5,028 5,32% 273,34 981,56 1,417,13 7,500 857,70 1,001682 5,028 5,32% 408,51 1,417,13 891,46 1,417,13 7,500 857,16 1,377,29 1,377,29 1,65,73 15,56 1,65,73 1,66,73 1,66,17 1,66,63 1,65,43 1,417,13 7,500 1,377,29 1,377,29 1,477,23 100,04 7,29% 406,51 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,412,83 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,412,83 1,412,83 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,417,13 1,412,83 1,417,13		25	5,000	418.19	420.47	2.28	0.64%	136.17	554.36	556.64	0.41%
5,000 14,481 5,425 11,00% 138,17 65,03 65,43 15,000 187,16 172,28 10,67 25,25% 10,61,28 66,43 15,000 187,16 170,28 10,67 55,36% 20,425 1417,13 15,000 167,76 10,044 7,28% 15,374 10,34,25 1,417,13 15,000 1377,24 10,34,4 7,28% 25,32,4 1,417,13 16,000 1377,24 10,34,4 7,28% 2,44,65 1,417,13 10,000 1,377,34 10,34,6 1,756 1,900,16 2,00,13 20,000 1,377,34 10,34,7 1,467,7 2,10,47 2,362,32 20,000 1,372,30 1,477,7 10,44 7,25% 2,10,13 20,000 1,372,30 1,476,75 1,476,75 2,10,44 2,10,13 20,000 1,372,30 1,446,75 1,446,75 2,10,14 2,10,15 2,10,13 20,000 1,734,10 2,10,17 <		25	7,500	533.91	535.31	1.40	0.26%	204.25	738.17	739.56	0.19%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		50	5,000	494.81	549.26	54,45	11.00%	136.17	630.98	685.43	8,63%
15.000 857.70 1,008.62 5.032 5.32% 408.51 1,366.21 1,417.13 7,500 887.70 1,034.32 1,137.49 100.67 $81.6.8\%$ 204.25 801.41 997.14 7,500 877.69 $1,77.29$ $1,77.72$ $1,77.72$ $1,71.73$ 100.46 2.29% 208.51 $1,417.13$ 25,000 $1,377.29$ $1,477.72$ 100.44 7.29% 408.51 $1,417.13$ 27,500 $1,377.29$ $1,477.72$ 100.44 7.29% $203.253.42$ $1,417.73$ 20,000 $1,377.29$ $1,470.26$ $1,427.72$ 100.44 7.29% 200.76 $2.035.76$ 20,000 $1,386.67$ $1,460.7$ $2.367.06$ $4.05.12$ $2.367.00$ $4.05.12$ 20,000 $1,477.22$ $3.86.67$ $1.66.73$ $5.46.07$ $2.496.27$ $2.907.76$ 20,000 $1,377.80$ $2.367.06$ $4.05.17$ $2.196.72$ $2.190.75$ $2.190.72$ 20,0000		50	10,000	726.26	778.94	52.68	7.26%	272.34	998.69	1.051.28	5.28%
7,500 $887,16$ $792,269$ $105,73$ $15,300$ $204,25$ $801,41$ $997,14$ $7,500$ $1,372,32$ $1,737,41$ $100,346$ $9,97%$ $408,51$ $1,445,32$ $1,745,41$ $100,46$ $9,97%$ $408,51$ $1,445,32$ $1,545,32$ $1,590,46$ $2,000,46$ $1,946,51$ $1,936,52$ $1,570,24$ $1,516,61$ $1,946,37$ $2,000,46$ $1,246,61$ $2,003,46$ $1,246,52$ $1,546,67$ $2,003,46$		50	15,000	957.70	1,008.62	50.92	5.32%	408.51	1,366.21	1.417.13	3.73%
15,000 1,034,32 1,137,44 103.09 9.87% 408.51 1,442.63 1,545.82 22,500 1,377,29 1,477,73 100.44 7.29% 612.76 1,442.63 1,545.82 22,500 8,79.55 1,6477,73 100.44 7.29% 613.46 7,290.46 2,090.06 2,090.06 2,090.06 2,090.06 2,090.46 2,090.46 2,090.46 2,090.46 2,090.46 2,090.46 2,090.46 2,037.76 2,037.26 2,552.22 5,552.22<		75 .	7,500	687.16	792.89	106.73	15.39%	204.25	891.41	967.14	11.86%
Z2500 $1,377.29$ $1,477.73$ 100.44 7.29% 612.76 $1,900.05$ 2090.49 10000 879.50 $1,036.62$ 157.02 17.86% 272.34 $1,161.84$ $1,308.46$ 20000 $1.339.59$ $1,036.62$ 157.02 17.86% 273.34 $1,161.84$ $1,308.46$ 20000 $1.336.57$ 157.02 17.86% 574.66 $2,763.46$ $2,763.46$ $2,763.46$ $2,763.46$ $2,763.46$ $2,763.46$ $2,763.16$		75	15,000	1,034.32	1,137,41	103.09	9.97%	408.51	1,442.83	1.545.92	7.14%
10,000 879.50 1,036.62 157.02 17.86% 272.34 1,151.84 1,309.86 20,000 1,339.59 1,490.78 5.4466 1,494.86 2,003.76 20,000 1,494.67 2,004.24 367.17 2,337% 544.66 2,190.75 2,553.86 20,000 1,446.07 2,004.24 365.12 13.37% 1,089.36 2,190.75 5,532.82 20,000 3,475.22 3,825.28 3,46.06 10.02% 5,109.25 5,457.32 20,000 3,475.22 3,825.28 3,46.06 10.02% 1,634.03 5,109.25 5,457.32 20,000 3,475.22 3,855.12 10.02% 1,634.03 5,109.25 5,457.32 50,000 4,975.01 977.61 2,033.35 2,753.39 8,947.21 1,357.69 100,000 3,756.26 9,425.61 2,003.35 2,753.39 10,479.65 12,493.100 100,000 12,536.46 6,106.52 1,696% 6,46.78 1,7775.90 19,744.00 </td <td></td> <td>75</td> <td>22,500</td> <td>1,377.29</td> <td>1,477.73</td> <td>100.44</td> <td>7.29%</td> <td>612.76</td> <td>1,990.05</td> <td>2,090.49</td> <td>5.05%</td>		75	22,500	1,377.29	1,477.73	100.44	7.29%	612.76	1,990.05	2,090.49	5.05%
Z0,000 1.339.59 1,493.08 153.49 11.46% 544.56 1,884.26 2.037.76 20,000 1,786.87 1,964.37 1,964.36 5,190.75 2,552.92 20,000 1,786.87 1,949.77 8.30% 817.02 2,513.86 2,552.92 20,000 1,786.67 2,996.76 3,510.24 362.17 2,552.92 2,552.92 20,000 3,475.22 3,823.28 3,46.06 10.02% 5,446.63 5,199.25 5,457.32 80,000 3,475.22 3,857.01 9,776.1 2,437% 1,634.03 5,109.25 5,457.32 80,000 3,475.22 3,850.06 8,477.32 1,637.86 9,907.20 9,907.20 160,000 3,475.26 9,475.61 2,003.35 2,533% 2,770.496 1,357.69 19,744.00 160,000 1,556.26 1,647.73 2,763.39 8,947.21 19,775.90 19,744.00 100,000 7,756.26 9,750.43 1,677.75 1,4297.23 2,764.39 19,744.00 <td></td> <td>100</td> <td>10,000</td> <td>879.50</td> <td>1,036.62</td> <td>157.02</td> <td>17.85%</td> <td>272.34</td> <td>1,151.84</td> <td>1,308.86</td> <td>13.63%</td>		100	10,000	879.50	1,036.62	157.02	17.85%	272.34	1,151.84	1,308.86	13.63%
30,000 1,796,87 1,946,84 149,97 8,355,12 2,532,82 2,190,75 2,552,82 20,000 1,786,67 2,906,75 3,551,12 2,546,66 2,190,75 2,552,82 20,000 3,475,22 3,551,12 1,634,66 5,109,26 5,467,32 2,552,82 60,000 3,475,52 3,551,12 1,0389,35 5,109,26 5,467,32 2,552,82 50,000 3,937,39 4,915,01 977,61 24,89% 1,634,03 5,109,26 5,457,32 50,000 3,937,38 976,61 24,89% 1,634,03 5,109,26 5,457,32 50,000 6,223,82 7,163,81 959,98 15,42% 2,753,39 19,7400 100,000 6,223,82 7,163,81 942,35 11,07% 2,723,39 19,7400 100,000 6,223,82 1,107% 2,723,39 19,7400 3,701,90 37,004,49 200,000 13,537,69 1,407,17 2,102,17 2,495,59 13,557,69 13,557,69 13,557,69		100	20,000	1,339.59	1,493.08	153.49	11.46%	544.68	1,884.26	2,037.75	8.15%
Z0,000 1,846,07 Z,006,24 362,17 Z,200% 5,44,66 Z,190,75 2,552,92 40,000 2,396,065 2,915,76 355,12 1,337% 1,008,36 2,190,75 2,552,92 50,000 3,475,22 3,853,12 3,46,06 1,051,76 3,551,02 4,005,13 3,005,00 4,005,12 2,552,92 5,457,32 5,109,25 5,457,32 5,109,25 5,457,32 5,109,57 5,457,32 5,109,57 5,457,32 5,109,57 5,457,32 5,100,51 1,005,11 2,757,00 4,005,10 9,91,20 </td <td></td> <td>100</td> <td>30,000</td> <td>1, 796.87</td> <td>1.946.84</td> <td>149.97</td> <td>8.36%</td> <td>817.02</td> <td>2,613.89</td> <td>2,763.86</td> <td>5.74%</td>		100	30,000	1, 796.87	1.946.84	149.97	8.36%	817.02	2,613.89	2,763.86	5.74%
40,000 2,590,65 2,915,76 355,12 13,87% 1,089,36 3,650,00 4,005,12 60,000 3,475,22 3,853,28 3,461,61 10,02% 1,634,03 5,109,25 5,473,32 50,000 3,475,22 3,853,28 3,461,61 10,02% 1,634,03 5,109,25 5,473,32 50,000 3,475,22 3,853,28 3,451,61 977,61 2,433% 1,561,33 5,709,25 5,473,32 50,000 6,510,26 9,452,61 9,42,35 11,07% 2,616,39 12,483,00 1,057,16 100,000 7,756,29 9,452,61 9,42,35 11,07% 4,085,09 1,353,76 13,537,69 100,000 7,756,29 9,423,61 1,932,83 1,433,78 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,537,69 13,637,69 12,646,39		200	20,000	1,846.07	2,008.24	362.17	22.00%	544.68	2,190.75	2,552.92	16.53%
60,000 3,475.22 3,823.28 3,46.06 10,02% 1,634.03 5,109.25 5,457.32 50,000 3,475.22 3,823.28 3,46.06 10,02% 1,561.70 5,296.06 6,276.70 70,000 6,233.82 7,183.81 965.08 15,47% 2,273.33 5,947.21 9,997.20 150,000 8,510.26 9,425.61 2,003.35 25,83% 2,773.33 8,947.21 13,577.69 9,907.20 150,000 7,756.26 9,425.61 2,003.35 25,83% 2,773.33 8,947.21 13,577.69 13,577.61 14,677.77<		200	40,000	2,580.65	2,915.76	355.12	13.87%	1,089.36	3,650.00	4,005.12	9.73%
55,000 3,937,39 4,915,01 977,61 24,83% 1,361.70 5,290.06 6,276.70 100,000 6,223.82 7,183.81 9,995.06 16,42% 2,723.39 8,947.21 9,907.20 100,000 7,516.26 9,423.61 9,423.35 11,07% 4,085.09 12,595.34 13,537.69 100,000 7,556.26 9,423.35 11,07% 4,085.09 12,595.34 13,537.69 200,000 7,576.26 9,423.33 11,07% 4,085.09 17,775.90 19,744.00 300,000 15.901.59 18,834.82 1,932.83 11,44% 8,170.17 23,01.90 37,204.90 300,000 23.031.73 28,138.06 6,166.32 26,61% 8,170.17 23,01.90 37,2		200	60,000	3,475.22	3,823.28	348.06	10.02%	1,634.03	5,109.25	5,457.32	6.81%
100,000 6.223 82 7,183.81 959.88 15,42% 2.723.39 8,947.21 9,907.20 150,000 8,510.26 9,426.61 9,423.61 9,50.88 15,42% 2,723.39 8,947.21 9,907.20 150,000 8,510.26 9,423.61 9,423.61 9,423.61 9,423.61 9,423.61 9,406.61 13,557.69 150,000 7,56.29 9,423.61 2,003.35 25,53% 2,723.39 10,479.65 12,595.34 13,557.69 200,000 15,901.39 16,897.22 1,968.09 16,632 26,61% 8,170.17 25,072.16 27,004.96 300,000 23,031.73 28,138.06 6,006.53 16,340.34 5,072.16 27,004.96 5,001.19 27,004.96 5,001.19 27,004.96 5,001.19 27,004.96 5,001.19 27,004.96 5,002.24 15,04.06 5,002.16 27,004.96 5,002.16 27,004.96 5,002.19 27,204.63 5,002.19 27,204.63 5,002.19 27,204.63 5,002.16 27,004.90 27,204.63 5		500	50,000	3,937.39	4,915.01	977.61	24.83%	1,361.70	5,299.09	6,276.70	18.45%
150,000 8,510.26 9,452.61 942.35 11,07% 4,085.09 12,595.34 13,537.69 100,000 7,756.26 9,779.61 2,003.35 25,83% 2,723.39 10,479.65 12,483.00 2100,000 15,356.26 9,779.61 2,003.35 25,83% 5,273.39 10,479.65 12,483.00 200,000 12,323.12 14,297.22 1,968.09 16,343.82 13,934.82 13,933.91 17,775.90 19,744.00 300,000 23,031.73 28,138.06 6,106.32 26,61% 8,170.17 21,0190 37,306.29 300,000 23,672.65 6,000.53 16,340.34 5,300.166 59,091.19 37,306.26 59,091.19 37,306.26 200,000 35,750.32 42,750.46 14,312.26 5,904.71 11,77% 24,100.16 37,306.26 700,000 53,622.66 6,000.53 16,340.34 53,000.66 59,091.19 37,306.24 13,65.05.24 700,000 53,022.66 6,007.10 11,77% 24,100.51 27,646.39		500	100,000	6,223,82	7,183.81	959.98	15.42%	2,723.39	8,947.21	9,907.20	10.73%
100,000 7,756,26 9,759,61 2,003.35 25,33% 2,723.39 10,479,65 12,443.00 300,000 12,329,12 14,297,22 1,966,09 16,596% 6,446,78 17,775,90 19,744,00 300,000 25,031,72 14,297,22 1,966,09 16,596% 6,446,78 17,775,90 19,744,00 300,000 25,031,72 28,138,16 6,106,32 26,615% 8,170,17 25,072,16 27,044,99 300,000 26,133,72 28,138,16 6,106,32 26,615% 8,170,17 25,072,16 27,044,99 300,000 26,756,45 6,106,53 16,340,34 53,090,66 59,091,19 37,306,25 900,000 36,756,45 6,306,53 16,340,34 53,001,66 59,091,16 700,000 50,327,66 56,000,53 16,340,34 74,818,16 80,722,87 1,400,000 53,682,66 6,7,894,91 14,124,72 24,130,51 74,813,16 80,726,54 2,100,000 14,4559,22 14,143,12 26,307,43 3		500	150,000	8,510.26	9,452.61	942.35	11.07%	4,085.09	12,595.34	13,537.69	7.48%
200,000 12,328,12 1,4,287,22 1,968,09 15,56% 5,446,78 17,775,90 19,744,00 300,000 16,501,89 16,834,82 1,302,83 11,44% 8,170,17 25,072,16 27,004,99 300,000 23,031,73 28,158,16 6,106,32 26,61% 8,170,17 25,072,16 27,004,99 300,000 23,031,73 28,156,16 6,106,32 26,61% 8,170,17 25,004,19 37,306,22 900,000 26,750,32 42,750,45 6,000,53 16,336 16,340,34 53,090,66 59,091,19 700,000 55,027,26 5,904,71 11,74% 24,510,51 74,818,16 80,071,19 700,000 55,82,66 5,904,71 11,74% 24,510,51 74,818,16 80,772,87 700,000 54,283,00 14,131,28 73,864 14,143 16,307,66 56,055,24 136,556,246 136,556,254 1,400,000 14,458,32 16,007,10 12,239% 36,177,744,1 186,751,575 2,100,000 14,4569,2		1,000	100,000	7,756.26	9,759.61	2,003.35	25.33%	2,723.39	10,479.65	12,483.00	19.12%
300,000 16,801.99 18,834.82 1,932.83 11.44% 8,170.17 25,072.16 27,004.09 300,000 23,031.73 29,138.06 6,106.32 26,61% 8,170.17 25,072.16 27,004.09 300,000 26,57.32 42,750.85 6,106.32 26,61% 8,170.17 31,201.90 37,308.22 900,000 36,750.85 5,004.71 11,74% 24,510.51 74,818.16 80,719 900,000 50,327.65 5,504.71 11,74% 24,510.51 72,646.39 86,956.64 700,000 85,582.66 67,894.91 14,1312.26 26,07% 19,063.73 72,646.39 166,966.64 2,100,000 14,1653.22 14,142.78 16,30% 33,727.46 136,556.24 136,556.24 2,100,000 144,553.22 122,356 14,007.10 12,235% 17,124.41 185,751.51		1,000	200,000	12,329.12	14,297.22	1,968.09	15.96%	5,446.78	17,775.90	19,744.00	11.07%
300,000 23,031,73 29,138,05 6,106.32 26,61% 8,170,17 31,201,90 37,308,22 600,000 36,750.32 42,760.65 6,000.53 16,33% 16,340.34 53,090.66 59,091.19 700,000 50,327.65 5,004.71 11,74% 24,510.51 74,614.16 80,772.87 700,000 53,822.66 67,894.91 14,1312.25 26,077.51 74,514.16 80,556.64 1,400,000 63,382.66 67,894.91 14,1312.26 26,077.51 72,554.64 96,956.64 2,100,000 61,4560.32 14,142.16 16,307.66 36,127.46 122,355.46 136,556.24 2,100,000 114,553.22 12,097.60 12,2355.46 136,556.24 136,556.24 136,556.24 2,100,000 114,553.22 14,007.10 12,2355.46 136,556.24 136,556.24 136,556.24 2,100,000 114,553.22 14,007.10 12,2355.46 136,556.24 136,556.24 136,556.24		1,000	300,000	16,901.99	18,834.82	1,932.83	11.44%	8,170.17	25,072.16	27,004.89	7.71%
600,000 36,750.32 42,750.85 6,000.53 16,340.34 53,090.66 59,091.19 700,000 50,327.65 5,904.71 11,74% 24,510.51 74,818.16 80,722.87 700,000 53,582.56 5,904.71 11,74% 24,510.51 74,818.16 80,572.87 700,000 53,582.56 5,77.78 14,131.22 26,07% 36,727.46 122,355.46 136,556.24 1,400,000 14,553.22 128,560.32 14,007.10 12,229% 57,191.19 171,244.1 186,751.51		3,000	300,000	23,031.73	29,138.05	6,106.32	26.51%	8,170.17	31,201.90	37,308.22	19.57%
900,000 50,307,65 56,212.36 5,904,71 11,74% 24,510.51 74,818,16 80,722.87 700,000 53,582.66 67,894.91 14,312.25 26,71% 19,063.73 72,646.39 86,958.64 1,400,000 84,228.00 96,377.78 14,149.78 16,80% 36,127.46 122,355.46 136,505.24 2,100,000 114,553.22 128,560.32 14,007.10 12,23% 57,191.19 171,744.41 186,751.51		3,000	600,000	36,750.32	42,750.85	6,000.53	16.33%	16,340.34	53,090.66	59,091.19	11.30%
700,000 53.582.66 67,894.91 14,312.25 26,71% 19,063.73 72,646.39 86,958.64 1,400,000 84,228.00 96,377.78 14,149.78 16,80% 38,127.46 122,355.46 136,505.24 2,100,000 114,553.22 128,560.32 14,007.10 12.23% 57,191.19 171,744.41 185,751.51		3,000	000'006	50,307.65	56,212.36	5,904.71	11.74%	24,510.51	74,818,16	80,722.87	7.89%
1,400,000 84,228,00 96,377,78 14,149,78 16,80% 38,127,46 122,355,46 136,505,24 2,100,000 114,553,22 128,560,32 14,007,10 12,23% 57,191,19 171,744,41 185,751,51		7,000	700,000	53,582.66	67,894.91	14,312.25	26.71%	19,063.73	72,646.39	86,958.64	19.70%
2,100,000 114,553.22 128,560.32 14,007,10 12.23% 57,191.19 171,744,41 185,751,51		7,000	1,400,000	64,228.00	86,377.78	14,149.78	16.30%	38,127.46	122,355.46	136,505,24	11.56%
		7,000	2,100,000	114,553.22	128,560.32	14,007.10	12.23%	57,191.19	171,744.41	185,751,51	8.18%

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original_Updated_Revised Work Paper Reference NO(5):

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Schedule E-5 Page 71 of 100 Witness Responsible: T. Zelina / A. Moore

A) 2 Subtransmission 4 Subtransmission 5 Subtran	(B) 1,000 3,000 5,000 7,500 7,500	(C)		Increase	Increase		15mL	FUe	% Change
GS-2 Subtransmission	1,000 2,000 3,000 5,000 5,000 5,000	97 COC	<u>(</u>	(E=D-C)	(F = E+C)	(G)	(H = C+G)	(]= D+G)	(H+∃≖ſ)
Subtransmission	1,000 2,000 3,000 5,000 5,000 7,500	37 696				-			
	2,000 3,000 5,000 5,000 7,600	200.10	975.56	591.80	154.21%	28.23	411.99	1,003.79	143.64%
	3,000 2,500 5,000 5,000	430.17	1,021.62	591.45	137.49%	56.47	486.64	1,078.09	121.54%
	2,500 5,000 5,500 5,500	478.13	1,067.23	591.10	124.15%	84.70	560.83	1,151.93	105.40%
	5,000 7,500 5,000	492.31	1,056.12	563.82	114.53%	70.59	562.89	1,126.71	100.16%
	7,600 5,000	607.20	1,170.14	562.94	92.71%	141.17	748.37	1,311.31	75.22%
	5,000	722.09	1,284.15	562:06	77,84%	211.76	933.85	1,495.91	60.19%
	10.000	672.45	1,189.64	517.18	76.91%	141.17	813.63	1,330.81	63.57%
	2000,01	902.24	1,417.66	615.42	57.13%	282.35	1,184.59	1,700.01	43.51%
	15,000	1,132.03	1,645.69	513.66	45.37%	423.52	1,555.55	2,069.20	33.02%
	7,500	852.60	1,323.15	470.55	55.19%	211.76	1,064.36	1,534,91	44.21%
	15,000	1,197.28	1,665.19	467.90	%80.96	423.52	1,620.80	2,068.70	28.87%
	22,500	1,537.77	2,003.02	465.26	30.26%	635.28	2,173.04	2,638.30	21,41%
	10,000	1.032.75	1,456.66	423.91	41.05%	282.35	1,315.10	10.957.1	32.23%
	20,000	1,489.53	1,909.91	420.38	28.22%	564.69	2,064.22	2,474.60	20.46%
	30,000	1,943.50	2,360.36	416.86	21.45%	847.04	2,790.54	3,207.38	14.94%
	20,000	1,750.65	1,987.91	237.36	13.56%	564.69	2,315.24	2,552.60	10.25%
	40,000	2,658.50	2,886.81	230.31	8.66%	1,129.38	3,787.88	4,018.19	6.08%
	60,000	3,566.45	3,789.71	223.26	6.26%	1,694.07	5,260.52	5,483.78	4.24%
	50,000	3,895.53	3,573.26	(322.27)	-8.27%	1,411.73	5,307.26	4,984.98	-6.07%
	100,000	6,165.41	5,825.50	(16:666)	-5.51%	2,823,45	8,958.36	8,648.95	-0.78%
	150,000	8,435.29	6,077.75	(357.54)	4.24%	4,235.18	12,670.46	12,312.92	-2.82%
	100.000	7,470.51	6,215.50	(1,255.00)	-16.30%	2,823,45	10,293.96	9,038.95	-12.19%
	200,000	12,010.26	10,719.99	(1,290.27)	-10.74%	5,646,90	17.657.16	16.366.89	-7.31%
	300.000	16,550.01	15,224.48	(1,325.53)	-8.01%	8,470.35	25,020.36	23,694.63	-5.30%
	300,000	21,770.41	16,784.48	(4,985.92)	-22.90%	8,470.35	30,240.76	25,254.83	-16.49%
	600,000	35,389.67	30,297.96	(5,091.71)	-14,30%	16,940.70	52,330.37	47,238.66	-9.73%
	000'006	48,847.67	43,660.14	(5,187.53)	-10.62%	25,411.05	74,258.72	69,071.19	%66:9
	200'002	50,370.21	37,922.45	(12,447.77)	-24.71%	19,764,15	70,134.36	57,686.60	-17.75%
	1.400.000	80,783.78	68,173.54	(12,610.24)	-15.61%	39,528.30	120,312.08	107,701.84	-10.48%
	2,100,000	110,877.22	96,124.31	(12,752.92)	-11.50%	59,292.45	170,169.67	157,416.76	-7.49%

Deta: 3 MOS Actuel & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 72 of 100 Witness Responsible: T.Zalina / A. Moore

> Data: 3 MOS Actuel & 9 MOS Estimated Type of Filing: ►Orkjinal_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 73 of 100 Witness Responsible: T.Zelling / A. Moore

% Change (J=E+H)		-10.71%	-9.77%	-8.99%	35.7	3.94%	-3.63%	-1.63%	-1.54%	-1.46%	-0.64%	-0,66%	-0.68%	-0.13%	-0.21%	-0.28%	0.67%	0.48%	0.34%	1.18%	0.91%	0.72%	1.32%	1.06%	0.85%	1.48%	1.24%	1.06%	1.61%	1.36%	1.16%
Proposed Total Bill Including Fuel (1= D+G)		364.47	406.92	449.36	818.19	924.29	1,030.40	1,572.98	1,782.39	1,991.81	2,324.27	2,638.39	2,962.61	3,075.55	3,494.39	3,913.22	6,080.71	6,918.38	7,756.04	15,096.18	17,190.35	19,284.51	30,121.97	34,310.30	38.498.63	89,736.11	101,622,66	113,510.21	206,780.06	234,517,69	262,255.31
Current Total Bill Inchuding Fuel (H = C+G)		408.18	450.98	493.77	855.27	962.26	1,069.25	1,509.01	1,810.19	2,021.36	2,339.25	2,656.01	2,972.78	3,079.49	3,501.84	3,924.20	6,040.45	6,685.16	7,729.86	14,923,32	17,035.12	19,146.92	29,728.12	33,951.71	38,175.31	68 ,425.02	100,373.73	112,322.43	203,493.76	231,374.06	259,254.36
Annualized Fuel Cost Additions to Bill (G)		96.32	122.55	149.79	238.30	306.38	374.47	476.59	612.76	748.93	714.89	919.14	1,123.40	963.19	1,225.53	1,497.86	1,906.37	2,451.05	2,995.73	4,765.93	6,127,63	7,489.32	9,531.87	12,256.26	14,978.65	28,595.60	36,765.77	44,935.94	66,723.06	85,786.79	104,850.52
% (ncrease (F = E+C)		-13.97%	-13.42%	-12.91%	-6.01%	-5.79%	-5.59%	-2.32%	-2.32%	-2.32%	-0.92%	-1.01%	-1.10%	-0.18%	-0.33%	-0.45%	%18.0	0.75%	0.55%	1.70%	1.42%	1.18%	1.95%	1.65%	1.39%	2.19%	1.96%	1.76%	2.40%	2.16%	1.84%
Dollar Increase (E=D-C)		(43.71)	(44,06)	(44,41)	(37.08)	(37.96)	(38.84)	(26.03)	(27.78)	(29.56)	(14.98)	(17.62)	(20.27)	(3.83)	(1.46)	(10.98)	40.27	33.21	26.16	172.86	155.23	137.60	393.85	358.58	323.32	1,310.08	1,248.94	1,187.79	3,286.30	3,143.62	3,000.94
Proposed Bill (D)	- - - -	269.15	264.36	299.67	579.89	617.91	655.94	1,098.38	1,169.63	1,242.88	1,609.38	1,719.25	1,829.12	2,122.37	2,268.86	2,415.36	4,174.34	4,467.33	4,760.31	10,330.25	11,082.72	11,795.19	20,590.11	22,055.04	23,519.98	61,139.51	64,856.90	68,574.28	140.057.01	148,730.90	157,404.79
Current Bill (C)	-	312.86	328.42	343.89	616.97	655.87	694.78	1,122.41	1,197.42	1,272.43	1,624.36	1,736.87	1,849.39	2,126.30	2,276.32	2,426.34	4,134.07	4,434.11	4,734.15	10,157.39	10,907.49	11,657.59	20,196.26	21,696.46	23,196.66	50,829.43	63,607.96	67,386.49	136,770.70	145,587.28	154,403.85
Level of Usage (B)		3.500	4,500	5,500	8,750	11,250	13,750	17,500	22,500	27,500	26,250	33,750	41,250	35,000	45,000	55,000	70,000	90,00	110,000	175,000	225,000	275,000	350,000	450,000	560,000	1,050,000	1,350,000	1,650,000	2,450,000	3,150,000	3,850,000
Level cr Demand (A)		10	10	10	25	25	25	50	20	50	75	75	75	100	100	100	200	200	200	500	500	500	1,000	1.000	1.000	3,000	3,000	3,000	7,000	7,000	000'2
Rate Code	GS-3	Primary																													
Line Na.	-	N	ť	4	ŝ	Ŷ	2	ø	6	9	=	12	13	14	15	16	17	18	19	ន	21	ង	ន	54	8	8	27	ន	R	8	ਲ ਲ

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

Schedule E-6 Page 74 of 100 Witness Responsible: T. Zellna / A. Moore

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ed 111 111 111 111 111 111 111 111 111 1	-	3.64 111.15%												1.74 11.15%					7.34 -1.93%										0		14.77%
Proposed Total Bill Including Fusi (= D+G)		94 1,093.64		•	·	•																				96 51,162.80		_	-	-	
Current Total Bin Including Fuel (H = C+G)	0	0 517.94	6 536.47	_)	1 1,339.67			7 1.649.22										4 11,410.39			8 22,500.23	•				•	4 150,001.49	
Annualized Fuel Cost Additions to Bill (G)	0.0	9.30	11,96	14.62	23.26	29.60	36.55	46.51	59.80	73.09	69.77	89.71	109.6	93.03	119.6	146.19	186.06	239.22	282.37	465.14	598.04	730.94	930.28	1,196.08	1,461.87	2,790.85	3,588.2	4,385.62	6,511,96	8,372.54	10,233.11
knorrease (F≠E+C)		71 113.19%	•	00 106.40%			32 59.11%										54) -2.01%		_	~				-	24) -12.85%	16) -16.82%	31) -15.87%	15.03%	72) -17.70%	10) -:16.67%	J8) -15.77%
d Dollar Increase (E=D-C)														3.71 262.96		7.99 255.91	5.41 (84.54)					_	_	_	0.76 (2,936.04)		3.67 (9.843.31)	5.39 (9,804.46)	2	2.56 (23,616.40)	
Proposo Biti (U)		64 1,084.34	51 1,099.87	39 1.115.39				-														-	_		_	11 48,371.95	98 52,183,67		26 109,118.54	95 118,012.56	84 126,906.57
Current Bill			00 524.51	00 540.39				•		•								00 4,517.28		•	-	1-			00 22,835.80		00 62,026.98	00 65,899.85		00 141,628.95	00 150,665.64
Level of USage (B)		3,500	4,500	5,500	8,750	11,250	13.750	17,500	22,500	27,5	26,250	33.7	41,250	35,000	45,000	56,000	70.000	000'06	110,000	176,000	225,000	275,000	350,000	450,000	550,000	1,050,000	1,350,000	1,650,000	2,450,000	3,150,000	3,850,000
Level of Demand (A)		10	10	5	25	25	25	50	50	50	75	75	75	100	100	100	200	200	200	500	500	500	1.000	1,000	1,000	3,000	3,000	3,000	7,000	7,000	7,000
Rate Code	CS-3	Subtransmission																													
Line No.	-	2	n	4	ۍ ا	ය	2	80	6	₽	7	5 5	t 1	<u>†</u>	15	16	17	13	19	ន	21	22	83	24	33	92 79	27	82	ŝ	ନ୍ତି	9 9 1

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶ Orighal_ Updated_ Revised Work Paper Reference No(s):

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Schedule E-5 Page 75 of 100 Witness Responsible: T. Zeline / A. Moore

		% Change (J=E+H)		100V C		3.01%	2.66%	3.58%	0.14%	2.78%	3.67%	3.21%	2.84%	3.75%	3.29%	2:91%	3.79%	3.32%	2.94%	3.80%	3.33%	2.95%			4.88%	44%	4.09%	-6.09%	×63.4	-4.20%	-5.22%	4.74%	-4.36%	2.40.0	4.84%	4.45%	-5.39%
Dronoed	Total Bill Including	Fuel (= D+G)		90 311 00		98'878' 40	109,563.36	149,158.33	165,248.17	181,338.01	237,482.48	263,226.23	288,969.97	580,779.12	655,138.48	719,497.84	1,474,020.71	1.634.919.11	1,795,817.50	3,682,124.68	4,084,370.67	4,486,616.67			78,924.94	86,523.12	96,121.31	126,333.56	142,330.53	158,327.51	200,446.48	226,041.65	251,636.81	496,898.20	560,886.10	624,874.00	1,238,027.47
Currant	Total Bill Including	Fuel (H = C+G)		07 701 AC	CF.102,70	91,012.02	106,742.58	144,002.48	160,220.08	176,437.68	229,084.01	255,032.18	280,980.34	569,410.15	634,280.56	699;150.98	1,420,225.49	1,582,401.53	1,744,577.57	3,547,263.85	3,952,703.95	4,358,144.05			80,871.62	90,546.47	100,221.31	133,115.67	148,240.31	165,365.05	211,481.50	237,281.08	263,080.67	524,945.20	589,444.18	653,943.12	1,308,604.44
Annializad	Fuel Cost Additions	to Bill (G)		44 410 00	28,210.04 20.00	00'DZC'00	43,824.96	48,694,40	60,868.00	73,041.60	77,911.04	97,388.80	116,866.56	194,777,60	243,472.00	292,166.40	486,944.00	608.680.00	730,416.00	1,217,360.00	1,521,700.00	1,826,040.00			28,514,64	35,643.30	42,771.96	47,624.40	59,405.50	71,286.60	76,039.04	95,048.80	114 058,56	190,097.60	237,622.00	285,146.40	475,244.00
	8	horease (F = E+C)		6 180V	0.10%	4.82%	4.52%	5.41%	5.06%	4.74%	5.56%	5.20%	4.87%	5.70%	5.34%	5.00%	5.76%	5.39%	5.05%	5,79%	. 5.42%	5.07%			-7.54%	-7.33%	-7.14%	-7.92%	%6972-	-7.48%	-8.15%	%06' <i>L</i> -	-7.68%	-8.38%	-8.12%	-7.88%	-8.47%
	Dollar	Increase (E=D-C)	-	0 004 10	01-100-17		2,840.78	5,155.85	5,028.09	4,900,32	8,308.47	8,194.05	7,939.63	21,368.97	20,857.91	20.346.86	53, 795.21	52.517.57	51,239.93	134,860.82	131,066,72	128,472.61			(3,946.69)	(4,023.34)	(4,100.00)	(6,782.02)	(6,809.78)	(7,037.55)	(11,035.01)	(11,239.44)	(11,443.86)	(28.047.00)	(28,558.06)	(29,069.11)	(70,576.97)
	Proposed	1118		81 050 04	10,000,10	02'408'00	65,758.40	100,463.93	104,380,17	108,296.41	159,571.44	165,837.43	172,103.41	396,001.52	411,666.48	427,331,44	987,076.71	1.026,239.11	1,065,401.50	2,464,764.68	2,562,670.67	2,660,576.67			48,410.30	60,879.82	53,349.35	78,809.16	82,925.03	87,040.91	124,407.44	130,992.85	137,578.25	306,800.60	323,264.10	339,727.60	762,783.47
	Current	18 0		58 064 84		77 1 44 100	62,917.62	95,308.08	99,352.08	103,396.08	151,172.97	157,643,38	164,113.78	374,632.55	390,808.56	406,984,58	933,281,49	973,721.53	1,014,161.57	2,329,903.85	2,431,003.95	2,532,104.05			52,356.98	54,903.17	57,449.35	85,591.17	89,834.81	94,078.45	135,442.46	142,232.28	149,022,11	334,847.60	351,822.16	368,796.72	833,360.44
	Level of	Usage (B)		1 200 000	000 000 F	000,006,1	1.800,000	2,000,000	2,500,000	3,000,000	3,200,000	4,000,000	4,800,000	8,000,000	10,000,000	12.000.000	20,000,000	25,000,000	30,000,000	50,000,000	62,500,000	75,000,000			1,200,000	1.500,000	1,800,000	2,000,000	2,500,000	3,000,000	3,200,000	4,000,000	4,800,000	8,000,000	10,000,000	12,000,000	20,000,000
	Level of	Demand (A)		3,000		2,000	3,000	5,000	5,000	5,000	8.000	6,000	8,000	20,000	20,000	20,000	50,000	50,000	50.000	125,000	125,000	125,000			3,000	3,000	3,000	5,000	5,000	5,000	8,000	8,000	8,000	20,000	20,000	20,000	50,000
	Rate	Code	4-SG	Drimane	5 mm - 1																			G8-4	Subtransmission												
	Line	No.	-			• •	ৰ	¢,	Ð	2	60	5	5	Ħ	12	1 3	4	15	16	17	18	10	20	21	22	53	24	52	5 6	27	28	58	90	31	32	R	청

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> Deta: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 76 of 100 Witness Responsible: T. Zellina / A. Moore

055.00 1,449,851,85 1,1 137.50 3,287,752,55 1,1 137.50 3,670,871,07 3, 137.50 3,670,871,07 3, 166,00 3,287,752,55 1,1 166,00 3,570,871,07 3, 166,00 4,073,989,55 1,1 266,50 4,077,986,54 87,596,47 20,596,54 405,50 144,246,50 286,50 144,246,50 284,904,77 284,904,77 110,00 3,140,5261 3,1 110,00 3,145,750 3,1 110,00 3,45,733,50 3,0 146,50 3,545,733,50 3,545,733,50 3,0 146,50 3,545,733,50 3,545,733,50 3,0 146,50 3,545,733,50 3,545,733,50 3,545,733,50 3,545,733,50 3,500 3,0 146,50 3,545,733,50 3,545,733,50 3,545,733,50 3,545,733,50 3,500	Rate Code	Level of Demand (A)	Level of Usage (B)	Current Bill (C)	Proposed Bill (D)	Dollar Increase (E=D-C)	% Increase (F = E+C)	Annualized Fuel Cost Additions to Bill (G)	Current Total Bill Including Fuel (H = C+G)	Proposed Total Bill Ancluding Fuel ()= D+G)	% Change (J=E+H)
Tranission 9000 20794425 1402.740.7 7.30% 7.12,000 131.000.2 2677525 125.000 2100.000 2.196,573.5 945,101.0 7.3122.5 7.90% 7.12,000.00 131.000.2 267671.5 125.000 125.000 2.165,7357 2.106,534.45 (183,290.10) 8.00% 1.722,165.00 4.073,999.55 125.000 1.200.000 2.165,7357 2.106,534.45 (183,290.10) 8.00% 1.722,165.00 4.073,999.55 3.000 1.200.000 5.486.43 (183,290.10) 3.23% 2.2614.64 7.7966.57 3.000 1.200.000 5.486.13 1.657.71 3.23% 2.2614.64 7.7366.56 3.000 1.500.000 5.486.17 (1.262.04) 3.23% 2.664.44 17.726.60 3.000 1.800.000 5.486.17 (1.262.04) 3.23% 2.664.44 17.266.00 3.000 1.600.000 5.736.04 1.722.64 1.722.64 17.266.00 3.000 1.725.164.01 7.726.14 1.7236.44	GS⊣	50.000	25.000.000	875.796 RF	803 947 24	(7185461)	200% A	594 055 DD	1 469 851 85	1 307 097 PA	4 80%
125,000 51,000 51,000 52,600,000 2,175,346 1,168,110,000 3,277,52,55 125,000 75,000,000 2,116,534,46 (166,041,80) 8,517,50 3,670,871,07 125,000 75,000,000 2,116,534,46 (163,200,10) 8,2475 (146,177,50) 3,670,871,07 125,000 75,000,000 2,116,534,46 (156,041,83) 8,514,84 7,796,84 3,000 1,500,000 51,957,17 5,000,000 51,957,17 3,000 4,773,986,47 3,000 1,500,000 51,957,17 5,000,000 51,957,17 3,27% 2,711,96 7,7396,54 3,000 1,500,000 51,957,17 5,000,000 51,957,17 3,27% 4,172,200 4,773,966,17 3,000 1,800,000 51,957,17 5,000,00 14,414,266,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 1,142,166,00 <td>Subtransmiss</td> <td></td> <td></td> <td>018 23 25</td> <td>845 101 DD</td> <td>123 139 251</td> <td>7 06%</td> <td>713 888 00</td> <td>1 831 000 35</td> <td></td> <td>1007 F</td>	Subtransmiss			018 23 25	845 101 DD	123 139 251	7 06%	713 888 00	1 831 000 35		1007 F
125,000 52,000,000 2,16,05,35/3 (110,05,39) 6,21% (1,122,166,00) 4,073,399,55 125,000 7,500,000 2,16,573,57 (10,05,59) 6,23% (16,05,59) 6,24% (17,02,165,00) 4,073,399,55 125,000 7,500,000 2,16,573,57 2,106,554,48 (15,260,10) 3,00% 1,722,166,00 4,073,399,55 3,000 1,500,000 54,484,48 50,222,448 (15,42,71) -3,22% 4,7396,45 7,730,46 3,000 1,500,000 54,484,48 50,223,61 (17,46,35) -3,2% 4,7584,40 17,364,44 3,000 1,500,000 54,484,48 50,232,61 17,46,35) -3,2% 4,75,460 7,796,45 3,000 1,600,000 54,484,48 57,730,53 3,456,60 14,2,46,30 7,796,60,47 3,000 1,600,000 54,641,01 1,722,166 2,771,98 2,744,60 17,366,60 14,2,46,30 5,000 2,500,000 1,224,156 1,723,561 2,771,49 2,564,200 2,544,40		·		7 070 415 ES	1 000 14 000 1	1178-001-001				1,000,000,000 P	
12.000 52.500.00 2.716,537.57 106.537.57 100.055.99 4.24% 1,445,137.50 310.437.17 125.000 1250.000 2.716,534.48 (183,201.10) 8.00% 1,732.165.00 4073.385.57 125.000 1560.000 2.716,534.48 (183,201.10) 8.00% 1,732.165.00 4073.385.56 3000 1,500.000 51,955.17 50.232.47 (167.20) 3.23% 28.614.34 77.386.56 3000 1,500.000 51,955.17 50.232.47 (167.20) 3.23% 28.614.34 77.386.50 5000 2.500.000 54,484.4 52.738.00 (1746.35) 3.43% 7.236.60 97.386.47 5000 2.500.000 84,411.40 81,525.48 2.106.500 142,266.50 142,266.50 142,266.50 5000 2.500.000 127,416.36 7.7386.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50 142,266.50				00.240.810.4	1,3UZ,14U.01	(A0-10-01)	% I 0,9-	1,165,110.00	00.70/./07.0	2'080'920'060'2	0 H 0
125.000 75.000,000 2.31,824.58 2,108,534.46 (1,53,200.10) 8.00% 1,722,165.00 4.073,896.58 3.000 1,200,000 61,925.17 5,022.22 2,108,534 7,722,165.00 4,073,896.58 3.000 1,800,000 51,955.17 5,022.22 3,171,95 5,544.64 7,728,143.0 7,738,166 3.000 1,800,000 51,955.17 5,022.21 3,14% 7,723,140 97,260.40 5.000 2,000,000 51,925.17 5,027 3,45% 47,524,40 17,366.60 144,245,50 5.000 3,000,000 51,925.16 (1,743.57) 3,45% 47,524,40 22,440 5.000 3,000,000 51,925.16 (1,743.53) 3,45% 47,524,40 23,46% 5.000 3,000,000 174,153.6 122,840 (1,745.22) 3,45% 47,524,40 56,48% 26,49% 27,50% 26,49% 27,50% 26,49% 27,50% 26,49% 27,50% 26,49% 27,50% 26,49% 27,50% 26,49% 27,5		000'971	62,500,000	2,185,733.57	2,005,637.57	(180,095.99)	-8.24%	1,485,137.50	3,670,871.07	3,490,775.07	-4.91%
Non 1,200,000 49,421,30 77,825,56 (1,566,01) -3,23% 28,54,46 77,996,54 3,000 1,500,000 51,965,17 50,738,04 -3,23% 28,54,46 77,996,54 3,000 1,500,000 51,965,17 50,738,04 -3,23% 28,544,64 77,996,54 3,000 5,000 54,488,17 52,738,04 (1,762,37) -3,23% 25,643,30 77,396,47 5,000 2,000,000 54,484,14 57,738,04 (1,762,37) -3,45% 47,524,40 123,596,47 5,000 3,000,000 89,681,92 77,535,00 (1,766,37) -3,45% 47,524,40 124,266,50 5,000 3,000,000 124,147,05 13,229,456 (4,476,49) 5,448,40 5,64,947 20,564,417 144,266,50 144,266,50 144,266,50 144,266,50 144,266,50 144,266,50 144,266,50 144,266,50 160,360,12 160,360,12 160,360,12 160,360,12 160,360,12 160,360,12 160,360,12 160,360,12 160,360,12 160,360,12		125,000	75,000,000	2,291,824.58	2,108,534.48	(183,290.10)	-8.00%	1.782,165.00	4,073,989,58	3,890,699,48	4.50%
Inamission 3,000 1,200,000 49,421,90 47,825,86 (1,566,04) -3,23% 28,514,64 77,936,54 3,000 1,500,000 51,955,17 50,222,47 (1,672,70) -3,23% 35,543,30 77,936,54 5,000 2,000,000 51,955,17 50,222,47 (1,672,70) -3,23% 42,771,96 77,380,40 5,000 2,000,000 86,19,28 77,853,09 (1,740,35) -3,45% 47,754,40 128,143,66 5,000 2,500,000 84,194,40 81,529,45 (2,911,91) -3,45% 59,465,50 144,246,30 5,000 3,000,000 89,635,52 12,2246,894 (4,776,84) 71,286,50 140,366,12 8,000 1,34,170,76 122,359,993 (4,477,84) 3,256,440 128,143,44 8,000 1,34,170,76 122,348,944 (4,776,84) 3,256,440 144,246,30 8,000 1,34,170,76 122,346,440 (4,776,84) 2,26,490 140,366,70 144,344,40 8,000 1,01,77 2,200,000	68.4										
1,500,000 51,955,17 50,282,47 (1,672,70) -3.22% 35,643,30 67,580,40 1,800,000 55,483,44 52,738,09 (1,748,35) -3.21% 42,771,96 97,280,40 2,000,000 84,841,40 81,9284 77,885,09 (1,748,35) -3.41% 71,266,60 160,360,12 2,000,000 89,083,52 88,033,80 (3,093,12) -3,43% 59,406,50 160,360,12 3,000,000 89,083,52 88,033,80 (4,566,42) -3,45% 71,266,60 160,360,12 3,000,000 127,415,36 122,848,94 (4,566,42) -3,55% 96,048,80 203,454,40 3,000,000 134,170,76 122,848,94 (4,566,42) -3,55% 71,266,60 160,370,12 3,000,000 134,170,76 122,848,94 (4,566,42) -3,55% 71,266,60 160,370,12 3,000,000 134,170,76 122,69,389,94 (4,566,42) -3,55% 71,266,60 160,370,12 1,000,000 134,565 316,569,14 (4,566,42) -3,55%	Transmission		1,200,000	49,421.90	47,825,86	(1,596.04)	-3.23%	28.614.64	77,936,54	76.340.50	-2.05%
1,800,000 54,488,44 52,739,09 (1,749,35) -3,45% 42,771,96 97,260,40 2,000,000 80,619,28 77,835,09 (2,784,19) -3,45% 42,771,96 97,260,40 2,000,000 89,635,52 86,023,72 -3,41% 71,286,50 160,360,12 3,000,000 89,035,52 86,032,23 -3,41% 71,286,50 160,360,12 3,000,000 127,415,36 122,839,84 (4,566,42) -3,58% 76,039,04 203,454,40 3,000,000 134,170,76 122,839,84 (4,776,84) -3,55% 96,048,80 229,219,56 4,000,000 134,599,65 122,630,91 (17,76,84) -3,55% 114,058,55 254,964,71 4,000,000 314,599,65 326,508,61 (12,771,84) -3,55% 260,469,72 264,964,71 12,000,000 314,555 335,636,81 (11,2771,84) -3,55% 264,964,71 257,804,49 255,7364 12,000,000 334,376,55 335,534,62 335,534,62 335,156,60 134,965,774,40 554,96		3,000	1,500,000	51,955.17	50,282,47	(1.672.70)	-3.22%	35,643.30	87,598.47	85,825.77	-1.91%
2,000,000 80,619,28 77,835,09 (2,784,19) -3,45% 47,524,40 128,143,63 2,500,000 89,663,52 81,929,45 (2,911,96) -3,43% 59,405,50 144,246,50 3,200,000 89,663,52 86,023,80 (2,591,96) -3,43% 75,266,00 160,350,12 3,200,000 139,063,52 86,023,80 (2,591,96) -3,43% 76,039,04 259,464,71 3,200,000 134,170,76 129,399,91 (4,770,84) -3,55% 96,048,80 229,219,66 4,000,000 314,596,69 135,660,88 (4,775,41) -3,55% 96,048,70 264,964,71 7,000,000 314,596,69 135,660,88 (4,775,41) -3,55% 96,048,70 536,464,71 7,000,000 314,557 129,530,40 114,058,55 254,964,71 10,10,17 11,0,077,66 335,666,19 (4,775,41) -3,55% 566,19 10,10,17 11,0,00000 344,317 312,257,165 335,53,10 335,53,10 335,53,10 12,000,0000 <		3,000	1,800,000	54,488.44	52,739.09	(1,749.35)	-3.21%	42,771.96	97,260.40	95,511.05	-1.80%
2.500.000 84,841.40 81,828.45 (2,911.96) -3.43% 59,405.50 144,246.90 3.000.000 127,415.36 122,849.94 (3,036.72) -3.41% 71,266.60 160,360.72 3.000.000 127,415.36 122,849.94 (4,775.47) -3.55% 95,045.60 160,360.72 3.000.000 134,170.76 129,399.69 (4,775.27) -3.55% 95,048.80 2202,19.44 4,000.000 134,170.76 129,399.69 (4,775.27) -3.55% 95,048.80 2204,904.71 8,000.000 314,599.69 320,2904.34 (11665.34) -3.57% 190,097.60 569,110.17 12,000.000 343,376.65 335,664.10 (12,777.46) -3.65% 285,146.40 633,523.05 20,000.000 343,376.65 335,664.10 (29,772.43) -3.77% 476,24.10 1,277,866.69 10,177 12,000.0000 824,923.96 (74,773.41) -3.77% 544,055.00 1,418,856.69 10,277 20,000.0000 1925,402.51 13779% 544,055.00 <t< td=""><td></td><td>5,000</td><td>2,000,000</td><td>80,619.28</td><td>77,835.09</td><td>(2,784.19)</td><td>-3.45%</td><td>47,524.40</td><td>128,143.68</td><td>125,359.49</td><td>-2.17%</td></t<>		5,000	2,000,000	80,619.28	77,835.09	(2,784.19)	-3.45%	47,524.40	128,143.68	125,359.49	-2.17%
3.000,000 89,063.52 86,023.80 (3.039.72) -3.41% 71,266.60 160,360.12 3.200,000 134,170.76 122,415.36 127,415.36 122,453.40 4,770.84 -3.55% 70.000.02 229,299.45 4.800,000 134,170.76 129,389.81 (4,770.84) -3.55% 70,048.56 229,299.45 4.800,000 140,286.15 155,980.88 (4,975.27) -3.55% 114,058.56 229,299.45 7.000,000 314,599.69 302,2904.34 (11,685.34) -3.57% 190,097.60 504,697.29 10,000,000 314,376.65 335,669.19 (12,208.40) -3.77% 275,146.40 1.577,804.19 20,000,000 782,560.49 753,042.96 753,072.93 -3.77% 712,866.00 1.418,336.69 1.40,657.261 377% 377% 372% 364,057.29 364,057.261 376,050.00 344,057.261 377% 377% 377% 377% 377% 377% 377% 377% 377% 376,050.00 364,107.17 356,106.10 344,057.261		5.000	2,500,000	84,841.40	81,929.45	(2,911.96)	-3.43%	59,405.50	144,246.90	141,334,85	-2.02%
3.200.000 127,415.36 122,848.94 (4,566.42) -3.56% 76,039.04 203,454.40 4,000,000 134,170.76 129,389.91 (4,770.84) -3.56% 96,048.80 203,454.40 4,000,000 134,170.76 129,389.91 (4,770.84) -3.56% 96,048.80 209,219.56 4,000,000 314,587.17 136,565.34) -3.55% 114,085.56 254,964.71 8,000,000 314,587.17 319,259.44 -3.55% 190,097.60 264,564.71 10,000,000 314,587.17 319,229.44 -3.55% 190,097.60 504,10.77 20,000,000 314,587.17 (12,208,40) -3.65% 285,146.40 633,523.05 20,000,000 343,376.65 325,042.64 (22,517.65) -3.77% 475,244.00 1.257,804.49 25,000,000 824,716.8 753,042.69 (32,762.29) -3.77% 475,244.00 1.579,808.99 26,000,000 824,329.61 (72,277.63) -3.77% 475,244.00 1.579,808.99 1.60,070% 26,000,000 <		5,000	3,000,000	89,063.52	86,023.80	(3,039.72)	-3.41%	71,286.60	160,350,12	157,310.40	-1.90%
4,000,000 134,170.76 129,389,61 (4,770.84) -3.56% 96,048.80 229,219.56 4,800,000 314,599,65 155,660.86 (4,975.27) -3.55% 114,055.56 254,964.71 6,000,000 314,599,65 302,904.34 (11,665.34) -3.55% 114,055.56 254,964.71 70,000,000 314,599,65 302,904.34 (11,265.34) -3.55% 114,055.56 254,964.71 10,000,000 314,599,65 302,294.34 (12,771,46) -3.65% 286,110.17 12,000,000 348,376.55 335,523.05 569,110.17 12,000,000 348,376.55 335,523.05 53,503.50 53,553,523.50 53,523		8,000	3.200,000	127,415.36	122,848,94	(4,566.42)	-3.58%	76,039.04	203,454.40	198,887.99	-2.24%
4,800,000 140,826.15 135,660.88 (4,975.27) -3.53% 114,058.56 254,964.71 8,000,000 314,596.69 302,904.34 (11,665.34) -3.72% 190,097.60 569,110.17 10,000,000 314,596.69 302,904.34 (11,665.34) -3.72% 190,097.60 569,110.17 12,000,000 314,376.65 335,668.19 (12,771.46) -3.65% 237,622.00 569,110.17 12,000,000 343,376.65 335,668.19 (12,771.46) -3.65% 285,146.40 1.257,804.49 133,553.01 20,000,000 343,376.65 753,042.84 (29,517.65) -3.77% 476,244.00 1.257,804.49 133,553.01 20,000,000 824,781.69 763,042.89 (32,072.93) -3.77% 712,866.00 1.418,356.69 1 30,000,000 1,952,462.51 1,878,389.10 (74,073.41) -3.77% 112,866.00 1.406,572.61 3 365,3153.60 3 1<40,657.261		8,000	4,000,000	134,170.76	129,399,91	(4,770.84)	-3.56%	95,048.80	229,219.56	224,448.71	-2.08%
8,000,000 314,599.69 302,904.34 (11,685.34) -3.72% 190,097.60 504,697.29 10,000,000 314,595.65 302,504.34 (11,685.34) -3.72% 190,097.60 504,697.29 10,000,000 343,376.65 335,656.18 (12,208.40) (12,208.40) 566,110,17 20,000,000 782,560.49 753,054.84 (12,717.46) -3.68% 235,523.05 566,110,17 20,000,000 782,461.69 753,054.94 753,057.53 -3.77% 475,244.00 1.577,804.49 1 20,000,000 824,781.69 763,056.91 (30,706.29) -3.77% 712,866.00 1.418,836.69 1 30,000,000 1,987,402.51 1,878,399.10 (74,277.41) -3.77% 1,188,110.00 3,440,672.61 3 60,00000 2,163,15.00 1,980,747.98 (74,077.41) -3.77% 1,485,137.90 3,40,672.61 3 61,000,000 2,163,15.60 1,980,747.98 (74,077.41) -3.77% 1,485,137.90 3,40,672.61 3 61,000,000		8,000	4,800,000	140,926.15	135,950,88	(4.975.27)	-3.53%	114,058.56	254,984.71	250,009.44	-1.95%
10,000,000 331,488,17 319,281,77 (12,206,40) -3,68% 237,622.00 569,110,17 12,000,000 348,376.65 335,666.19 (12,717,46) -3,65% 285,146,40 633,523.05 20,000,000 824,376.65 335,666.19 (12,717,46) -3,65% 285,146,40 633,523.05 20,000,000 824,781.69 753,042.64 (29,517,65) -3,77% 475,244,00 633,523.05 20,000,000 824,781.69 763,086.40 (30,796,29) -3,77% 594,656.00 1,418,436.65 1 30,000,000 857,002.89 634,922.91 (37,293,93) -3,77% 1,188,110,00 3,140,672.61 3,140,672.61 3,140,672.61 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,140,672.61 3,140,672.61 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00 3,543,153.00		20,000	8,000,000	314,599.69	302,904.34	(11,695.34)	-3.72%	190,097.60	504,697.29	493,001.94	-2.32%
12.000.000 343,376.65 335,658.19 (12,717.46) -3.65% 285,146.40 633,523.05 20.000.000 343,376.65 335,658.19 (12,717.46) -3.65% 285,146.40 633,523.05 20.000.000 824,781.69 753,042.64 (29,517.65) -3.77% 475,244.00 1,577,864.49 1 25,000.000 824,781.69 793,042.64 (30,795.29) -3.77% 376,656.00 1,418,856.69 1 30,000.000 867,002.89 833,492.96 (73,072.93) -3.77% 1,188,110.00 3,140,672.61 3<543,153.66		20,000	10,000,000	331,488.17	319,281.77	(12,208.40)	-3.68%	237,622.00	569,110.17	566,903.77	-2.14%
20.000.000 783,560.49 753,042.84 (29,517.65) -3.77% 475,244.00 1,257,804.49 1 25.000.000 824,751.69 763,086.40 (30.796.29) -3.77% 476,244.00 1,257,804.49 1 25.000.000 824,751.69 783,086.40 (30.796.29) -3.77% 572,665.00 1,418,836.69 1 30.000000 857,002.89 834,925.11 1,878,389.10 (74,73.41) -3.77% 712,866.00 1,40,672.61 3 50.000000 1,952,462.51 1,880,747.341 -3.75% 1,486,137.60 3,440,672.61 3,543,153.00 3 62,500.000 2,058,015.50 1,880,747.68 (77,267.52) -3.75% 1,486,175.00 3,446,572.61 3 75,000.000 2,163,568.50 2,083,106.88 (80,461.62) -3.72% 1,782,165.00 3,445,733.50 3		20,000	12.000,000	348,376.65	335,659,19	(12,717.46)	-3.65%	285,146.40	633,523.05	620,805.59	-2.01%
25,000,000 824,781,69 703,086.40 (30,795.29) -3.73% 594,055.00 1,418,836.69 1 00,000,000 857,002.89 634,923.96 (32,072.93) -3.70% 712,806.00 1,573,888.89 1 00,000,000 1,852,462.51 1,878,389.10 (74,273.41) -3.75% 1,168,110.00 3,40,672.61 3 00,000,000 2,058,015.50 1,380,747.98 (77,267.51) -3.75% 1,485,137.90 3,40,672.61 3 07 55,000,000 2,165,501.50 1,380,747.88 (77,267.52) -3.75% 1,485,137.90 3,543,153.00 3 75,000,000 2,165,568.50 2,083,106.88 (80,461.62) -3.72% 1,782,165.00 3,945,733.50 3		50,000	20,000,000	782,560.49	753,042.84	(29,517.65)	-3.77%	475,244.00	1,257,804.49	1.228,286.84	-2.35%
30,000,000 867,002.89 834,929.96 (32,072.93) -3.70% 712,866.00 1.579,868.89 1 50,000,000 1,952,462.51 1,876,389.10 (74,073.41) -3.79% 1,186,110.00 3,140,572.61 3 62,500,000 2,056,015.50 1,380,747.99 (77,267.52) -3.75% 1,486,137.50 3,543,153.00 3 75,000,000 2,163,568.50 2,083,106.88 (80,461.62) -3.72% 1,782,165.00 3,845,733.60 3		50,000	25,000,000	824,781.69	793,986,40	(30,795,29)	-3.73%	594,055.00	1.418,836.69	1,388,041.40	-2.17%
50,000,000 1,952,462.51 1,378,389.10 (74,073,41) -3.79% 1,188,110.00 3,140,572.61 3 62,500,000 2,058,015.50 1,380,747.99 (77,287,52) -3.75% 1,485,137.50 3,543,153.00 3 77,000,000 2,053,015.50 1,380,747.99 (77,287,52) -3.75% 1,485,137.50 3,543,153.00 3 75,000,000 2,163,568.50 2,083,106.88 (80,461.62) -3.72% 1,782,165.00 3,845,733.50 3		50,000	30,000,000	867,002.89	834,929,96	(32,072.93)	-3.70%	712,866.00	1,579,868.89	1.547,795.96	-2.03%
52,500,000 2,058,015,50 1,980,747.99 (77,267.52) -3.75% 1,485,137.50 3,543,153.00 2 77,000,000 2,163,568,50 2,083,106.88 (80,461.62) -3.72% 1,782,165.00 3,945,733.50 2		125,000	50,000,000	1,952,462.51	1,878,389,10	(74,073.41)	-3.79%	1,188,110.00	3,140,572,51	3.066,499,10	-2.36%
7 75,000,000 2,163,568,50 2,083,108,88 (80,461,82) -3.72% 1,782,166.00 3,945,733,50 3		125,000	62,500,000	2,058,015.50	1,980,747,99	(77,267.62)	-3.75%	1,485,137,50	3,543,153.00	3,465,885.49	-2.18%
		125,000	75,000,000	2,163,568.50	2,083,106.88	(80,461.62)	-3.72%	1,782,166.00	3,945,733.60	3,865,271,88	-2.04%

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal Updated Revised Work Paper Reference No(s):

Schedule E-5 Page 77 of 100 Witness Responsible: T. Zelina / A. Moore

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% Change [J=E+H]		469.18%	225.97%	132.18%	2019 14	3466 CT	2.87%	-2.29%	-5,42%	-8.60%	33,03%	18.16%	9.37%	1 21%	-3:41%	-6.27%	27.91%	.15.19%	7.97%	0.05%	4.22%	26.64%	13.85%	7.04%	-0.51%			40.06%	54.95%	36.34%
Proposed Total Bill Including Fuel (= D+G)		190.39	217.65	261.73	307.01 180.11	590.65	793.73	996.80	1,199.88	1,535.54	675.21	844.44	1,013,67	1,352.14	1,687.80	2,023.46	1,394.31	1,732.78	2,068.44	2,730.76	3,411.09	2,829.72	3,501.04	4,172.37	5,515.02			1,003.14	2,205.15	4,189.00
Current Total BM Inckuding Fuel (H = C+G)		33.45	56.77	108.42	208 82	523.09	771.61	1,020.13	1,268.66	1,680.06	507.57	714.87	921.77	1,335.98	1,747.38	2,158.79	1,090.07	1,504.28	1,915.68	2,738.50	3,561.31	2,262.28	3,075.10	3,897.91	5,543.53			72.01	1,423.13	3,072.57
Annuefized Fuel Cost Additions to Bill (G)		3.02	15.11	30.21	90.04	181 28	271.91	362.65	453.19	604.25	151.06	226.60	302.13	453.19	604.25	755.32	302.13	453.19	604.25	906.38	1,208.51	604.25	906.38	1,208.51	1,812.76			05.080	781.92	1,694.17
% kncrease (F = E+C)		515.77%	292.U4%	183.24%	14 7 5 F	19.77%	4.43%	-3.65%	-8.43%	-13.43%	47.03%	26.59%	14.83%	1.83%	-5.21%	-9.64%	38.61%	21.74%	11.65%	0.07%	-6.38%	35.04%	19.64%	10.21%	-0.76%			% I 7 00	121.98%	80.99%
Dolker Increase (E=D-C)		156.94	150.88	143.31	94 V0	67.56	22.12	(23.33)	(68.78)	(144.52)	167.65	129.77	91.90	16.16	(29.58)	(135.33)	304.24	228.50	152.75	1.27	(150.22)	577.43	425.95	274.46	(28.52)			780.92	782.02	1,116,42
Proposed Bill (D)		187.37	202.54	221.51 206.03	252 15	409.37	521.81	634.25	746.69	931.29	524.15	617.85	711.66	896.95	1.083.54	1,268.14	1,092.19	1,279.59	1,464.18	1,833.38	2,202.58	2,225.47	2,594.66	2,963.86	3,702.25		01010	01710	1,423.22	2.494.83
Current Bill (C)	:	30.43	9 G	12.8 12.8	28.0.87	341.81	499.70	667.68	815.47	1,075.81	356.50	488.07	619.64	882.79	1,143.13	1,403.47	787.94	1,061.09	1,311.43	1.832.11	2,352.80	1,648.03	2,168.72	2,689.40	3,730.77		201	22.02	641.21	1,378.40
Level of Usage (8)	į	00	900 1	3,000	0,000 A 500	6.000	000'6	12,000	15,000	20,000	5,000	7,500	10,000	15,000	20,000	25,000	10,000	15,000	20,000	30,000	40,000	20,000	30,000	40,000	90°00		45 000	10,000	000'06	65,000
Level of Demand (A)	:	00	6	<u>9</u> 9	38	; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	R	30	30	30	50	50	50	50	50	50	100	100	100	100	100	200	200	200	200		14 14	B	091	225
Rate Code	EHG													-													ЕПС	2		
Líne No.	÷ (N (• •	বিধ	с С	~~	-	OI	10	11	12	13	14	15	16	17	18	1 9	ଲ	21	ส	ង	54	52	26	21	88	98	R (88

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> Data: 3 MOS Actual & 9 MOS Estimated Type of Filling: POriginal_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 78 of 100 Wriness Responsible: T.Zelina / A. Moore

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Line Rate No. Code	Level of Demand (A)	Level of Usage (B)	Current Bill (C)	Proposed Bill (D)	Dollar Increase (E=D-C)	% Increase (F = E+C)	Annualized Fuel Cost Additions to Bill (G)	Current Total Bill Including Fuel (H = C+G)	Proposed Total Bill Including Fuel (1= D+G)	% Change (J=E+H)
1 SS										
2 1,000 sq ft	10	1,500	124.27	138.16	13.89	11.18%	43.66	167.93	181.82	8.279
63	10	3,000	211.34	203.90	(7.44)	-3.52%	87.31	298.66	291.22	-2.499
4 4	10	4,500	298.18	269.41	(28.77)	-9.65%	130.97	429.15	400.39	-6.70%
6 5,000 sqft	ន	2,000	154.74	217.49	62.75	40.55%	58.21	212.95	275.70	20.47%
-	ୟ	4,000	270.53	304.83	34.31	12.68%	116.42	386.94	421.25	8.87%
≈ 0	8	6,000	396.31	392.18	5.87	1.52%	174.63	560.94	586.81	1.05%
10 10,000 sq ft	ន	2,000	155.28	218.03	62.75	40.41%	58.21	213.49	276.24	29.394
=	ក	4,000	272.14	306.45	34.31	12.61%	116.42	388.56	422.87	8.83%
12	ନ୍ଦ	6,000	387.92	393.80	5.87	1.51%	174.63	562.55	568.42	1.04%
13	40	5,000	330.03	462.05	132.02	40.00%	145.52	475.56	607.58	27.78%
14	40	7,500	474.76	571.24	96.47	20.32%	218.29	693.05	789.52	13.92%
15	40	10,000	619.49	680.42	60.92	9.83%	291.05	910.54	971.47	6.694
17 20,000 sq ft	80	10,000	622.72	739.61	116.89	18.77%	291.05	913.77	1,030.66	12.799
18	50	15,000	912.19	957.98	45.79	5.02%	436.57	1,348.76	1,394.55	3.409
5 8	80	20,000	1,198.85	1,173,55	(25.30)	-2.11%	582.10	1,780.94	1,755.64	-1.42%
21 30,000 sq ft	50	10,000	625.95	742.84	116.89	18.67%	291.05	017.00	1,033.89	12.769
22	50	15,000	915.42	961.21	45.79	5.00%	436.57	1,351.99	1,397.79	9.399
23	50	20,000	1,202.08	1,176.77	(25.30)	-2.10%	582.10	1,784.17	1,758.87	-1.42%
24	100	20.000	1,202.08	1,456.60	254.53	21.17%	582.10	1,784.17	2,038.70	14.27%
25	100	25,000	1,468.74	1,672.17	183.43	12.32%	727.62	2,218,36	2,399.79	8.28%
5 38	100	30,000	1,775.40	1,887.73	112.33	6.33%	873.14	2,648.55	2,760.66	4.24%
28 50,000 sq ft	00	15,000	921.87	1,247.50	325.62	36.32%	436.57	1,368.45	1,684.07	23.979
R	<u>6</u>	30,000	1,751.86	1.894.19	112.33	6.30%	873.14	2,655.00	2,767.34	4.23%
30	200	40,000	2,355.18	2,884.98	529.79	22.49%	1,164,19	3,519.38	4,049,17	15.05%
31	2002	60,000	3,501.83	3,747.24	245.41	7.01%	1,746.29	5,248.12	5,493.53	4.68%
32	300	60,000	3,501.83	4,306.90	805.06	22.99%	1,746.29	5,248.12	6,053.19	15.34%
33	300 D	80.000	4 6 4 8 4 9	5 400 40		14 0000				

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 79 of 100 Witness Responsible: T. Zeitna / A. Moore

Lline Rate No. Code	4 . 33 2 100,000 sq 1 5 6	۰ م م ۵ ± ز م	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Level of Demand (A)	sq ft 250 250 400	Lamp Size Mercury Vapor 7,000 Lumen 20,000 Lumen	High Pressure Sodium 9.000 Lumen 22.000 Lumen	Incandescent 2.500 Lumen 4,000 Lumen	MV Floodlight 20,000 Lumen 50,000 Lumen	HPS Floodlight 22,000 Lumen 50,000 Lumen	MtH Floodflight 17,000 Lumen 29,000 Lumen	Post Top-MV
Level of Usage (B)	60,000 80,000 80,000 120,000	72 158	40 84	88 83 89	158 378	84 167	100 158	
Current Bill (C)	3,517.98 4,664.63 4,664.63 6,957.93	11.10 16.56	9.04 12.00	8. 55 8.53	19.51 28.78	13.88 15.68	12.44 13.05	
Proposed Bill (D)	4,043 22 4,905,48 5,744,96 7,469,49	13.64 19.81	11.88 15.99	11.78 13.01	23.61 33.47	17.83 20.08	16.35 17.66	
Dollar Increase (EwD-C)	525.24 240.85 11,080.33 511.56	2.54 3.25	2.83 3.96	3.23 3.48	4,10 4, 69	3,95 4,39	3.91 4.61	
% Increase (F = E+C)	14.93% 5.16% 23.16% 7.35%	22.85% 19.64%	31.35% 32.94%	37.77% 36.51%	21.04% 16.30%	28.47% 28.02%	31.48% 35.33%	
Annualized Fuel Cost Additions to Bill (G)	1,748.29 2,328.38 2,328.38 2,328.38	3.20 7.03	1.78 3.73	2.80 4.36	7.03 16.81	3.73 7.43	4.45 7.03	
Current Total Bill Including Fuel (H = C+G)	5,264.27 6,993.01 6,993.01 10,450.50	14. 30 23.58	10.82 15.77	11.36 13.89	26.53 46.68	17.61 23.11	18.88 20.08	
Proposed Total Bill Including Fuel (1= D+G)	5,789.50 7,233.88 8,073.35 10,962.06	16.84 26.83	13.66 19.73	14.59 17.37	30.64 50.28	21.57 27.50	20.B0 24.69	-
% Change (J≕E+H)	9.98% 3.44% 15.45% 4.90%	17.73% 13.79%	26.20% 25.14%	28.45% 25.05%	15.47% 10.28%	22.44% 19.02%	23.19% 22.97%	

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Orlginal_Updated_Revised Work Paper Reference No(s):

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Schedule E-5 Page 80 of 100 Witness Responsible: T. Zelina / A. Moore

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Demand (A)	Level of Usage (B)	Current Bill (C)	Proposed Bill (D)	Dollar Increase (E=D-C)	% fincrease (F = E+C)	Fuel Cost Additions to Bill (G)	Total Bill Including Fuel (H = C+G)	Total Bill Including Fuel (= D+G)	% Change (J=E+H)
							-		
Post Top-HPS a Min Limen	đŋ	15 ON	14 10	5 E 4	1000 PC	QL T	60.5	0	
	f	08:01	t,	0.0	ex 00.40	8/1	1 1.50	20.18	31.17%
Facilities Charges: Lindeensumd circuit and DE foot and 20 food	c	204	00	2			1		-
Undergrowing circuit per 20 isset over 30 isset	0	0.63	20.1	AC:0	61.58%	I	0.63	1.02	61.58%
								-	
On Wood Pole									
7.000 lumen mercury vapor	72	6.06	6.39	0.33	5.48%	2.75	8.8	9.14	3.77%
11,000 tumen mercury vapor	<u>100</u>	7.53	7.86	0.35	4.60%	3.82	11.34	11.69	3.05%
20,000 fumen mercury vapor	158	8.81	00.0	0.19	2.11%	6.03	14.84	15.02	1.25%
50,000 tumen mercury vapor	378	15.31	15.33	0.02	0.10%	14.42	29.74	28.75	0.05%
9,000 lumen high pressure sodium	4	6.87	7.38	0:50	7.33%	1.53	8.40	8.90	8.00%
16.000 tumen high pressure sodium	5 9	7.84	8.29	0.45	5.71%	2.25	10.09	10.54	4.43%
22,000 kumen high pressure sodium	84	96.9	9.81	0.45	4.80%	3.20	12.57	13.02	3.57%
50,000 kumen high pressure sodium		12.50	12.72	0.22	1.78%	6.37	18.87	19.09	1.18%
9,000 lumen high pressure sodium (post 1988)		12.12	13.76	1.64	13.50%	1.53	13.65	16.28	11.99%
16,000 lumen high pressure sodium (post 1986	£ 29	14.90	16.48	1.58	10.60%	2.25	17.15	18.73	9.21%
22.000 lumen high pressure sodium (post 1988		16.33	16.71	1.58	9.69%	3.20	19.53	21.11	8.10%
50,000 lumen high pressure sodium (post 198£	E 167	22.06	23.44	1.36	6.14%	6.37	28.45	29.81	4.76%
	i								
r,ouu lumen meroury vapor	2	61.9	10.04	18.0	9.95%	2.75	11.58	12.79	7.65%
11.000 lumen mercury vepor	8	10.94	11.95	0	9.26%	3.82	14.75	15.76	6.87%
20,000 tumen mercury vapor	158	12.44	13.34	0.91	7.31%	6.03	18.46	19.37	4.92%
50,000 lumen mercury vapor	378	20.19	21.00	0.81	3.99%	14,42	34.62	36.42	2.33%
9,000 lumen high pressure sodium	9	15.22	16.67	1.45	9.56%	1. 1.5	16.75	18.20	8.69%
16,000 lumen high pressure sodium	9 5	16.14	12:21	1.40	8.66%	2.25	18.40	19.79	7.60%
22.000 tumen high pressure sodium	2	17.69	19.10	1.4	7.98%	3.20	20.89	22.31	6.76%
50,000 tumen high pressure sodium		20.80	21.98	1.17	5.64%	6.37	27.17	28.35	4.32%
9,000 lumen high pressure sodium (posi 1993)	.	42.42	42.24	(0.18)	-0.43%	1.53	43.95	43.76	-0.41%
16.000 tumen high pressure sodium (post 1996		43.52	43.27	(0.25)	-0.67%	2.25	45.77	45.53	-0.54%
22,000 tumen high pressure sodium (post 1996		45.07	44.73	(0.34)	-0.75%	3.20	48.27	47.93	-0.70%
50,000 lumen high pressure sodium (post 1996	167	48.27	47.64	ID 631	-1 34%	6.97	2013		1 4602

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s):

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Schedule E-5 Page 81 of 100 Witness Responsible: T. Zelina / A. Moore

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1 SL 1 SL Multiple Lamps on Matal Pole: 20,000 lument mercury vapor 4 9,000 lument high pressure sodium 5 7,000 lument high pressure sodium 6 22,000 lument high pressure sodium 7 9,000 lument high pressure sodium 8 9,000 lument high pressure sodium 9 16,000 lument high pressure sodium 9 20,000 lument high pressure sodium 11 50,000 lument high pressure sodium	ole: aport are sodium sure sodium are sodium	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		(I)S	Dollar Increase (E=D-C)	% Increase (F = E+C)	Additions to Bill (G)	Including Fuel (H = C+G)	including Fuel (≤ D+G)	% Change (J#E+H)
	ole: apor ire sodium ture sodium arre sodium	158 59 84 84								
	epor are sodium sure sodium sure sodium	55 40 58 58 49								
	ure sodium sure sodium sure sodium	9 <u>8</u> 8	10.53	11.12	0.58	5.52%	6.03	16.66	17.14	3.51%
	sure sodium sure sodium aure codium	55 57	11.02	12.00	0.98	8.89%	1.53	12.54	13.52	7.80%
	sure sodium aure sodium	8 4	11.98	12.90	0.92	7.71%	2.25	14.23	15.15	6.49%
	arre sodirm		13.49	14.43	0.94	6.94%	3.20	16.70	17.63	5.61%
		167	16.63	17.33	0.70	4.20%	6.37	23.01	23.70	3.04%
	ure sodium (post 1998)	4	24.81	24.64	(0.16)	-0.66%	1.63	26.33	26.17	-0.63%
	sure sodium (post 1996	96	25.79	25.55	(0.23)	%06 ⁻ 0-	2.25	28.04	27.80	-0.83%
	sure sodium (post 1996	84	27.34	27.02	(0.32)	-1.18%	3.20	30.55	30.22	-1.05%
	sure sodium (post 1995	167	30.55	30.37	(0.18)	-0.60%	6.37	36.92	26.74	-0.49%
				-						
13 Post Top Unit:										
14 7,000 lumen marcury vapor	par	72	9.05	9.95	060	9.92%	2.75	11.80	12.69	7.61%
15 8,000 lumen high pressure sodium	ure sodium	40	12.94	12.78	(0.15)	-1.18%	. 1.53	14.46	14.31	-1.06%
-	ure sodium (post 1986)	40	16.52	18.02	1.50	9.08%	1.53	18.04	19.54	8.31%
17	•									
IS Fadilities Charges:										
19 Receptacle Charge		Đ	2.10	2.41	0.31	14.50%	•	2.10	2.41	14.50%

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case Mo. 11-362-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: POriginal_Updated_Revised Work Paper Reference No(s);

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Scheduke E-5 Page 82 of 100 Witness Responsible: T. Zalina / A. Moore

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Line Rate No. Code	Level of Domand (A)	Lavel of Usage (B)	Current Bill (C)	Proposed Bill (D)	Dollar Increase (E=D-C)	% Increase (F = E+C)	Fuel Cost Additions to Bill (G)	Total BIN Including Fuel (H = C+G)	Total Bill Including Fuel (I= D+G)	% Change (J=E+H)
+ RS		•	4.37	9.86	5.49	125.74%	•	4.37	9.69	12
67		Ē	6.61	12.02	5.42	82.00%	0.95	7.56	12.98	12
n		8	9.59	14.90	5.31	55.42%	223	11.81	17.13	T T
4		120	13.32	18.50	5.18	38.93%	3.82	17.13	22.32	8
ц		200	19.28	24,25	4.98	25.82%	6.36	25.64	30.62	19
Q		300	26.74	31.46	4.72	17.65%	9.54	36.28	41 00	13
7		200	41.65	45.85	4.20	10.06%	15.90	57,55	61.75	2
8		800	64.01	67.44	3.43	5.35%	26.44	89.46	92.88	E.
6		1,000	76.52	80.90	4.38	5.73%	31,80	108.32	112.70	4
10		1,200	89.02	94.36	5.34	6.00%	36.16	127.18	132.52	4
=		1,500	107.77	114.55	6.78	6.29%	47.70	155.47	162.25	च
12		2,000	139.02	148.19	9.17	6.60%	63.60	202.63	211.80	4.53%
13		4,000	263.12	261.85	18.74	7.12%	127.20	390.32	409.06	4
4		5,000	325.17	348.69	23.53	7.23%	159.01	484.17	507.70	4
15		8,000	611.31	549.19	37.88	7.41%	254,41	785.72	803,60	4
16		10.000	635.40	682.85	47.45	7.47%	318.01	953.42	1,000.87	र्च
17		12,000	759.50	816.52	57.02	7.51%	381.61	1,141,11	1,198.13	9
18		15,000	945.64	1.017.02	71.38	7.55%	477.02	1,422.66	1,494.03	ŝ
19 20 Rs										
21 SWH	80 cjał.	500	31.16	42 DD	10.84	%62 FE	15 GN	47 DF	57.01	ŝ
	80 gal.	800	50.53	63.60	10.07	18.80%	25.44	78.97	89.04	Ę.
- 23	80 gat.	1.000	68.44	66.77	9.55	13.95%	31.80	100.24	62 601	ι <i>α</i>
24	80 gal.	1,600	100.30	111.87	11.57	11.54%	47.70	148.00	159.57	
52	80 gal.	2,000	131.55	145.52	13.97	10.62%	63.60	196.15	209.12	•
38	. 80 gal.	4,000	265.65	279,18	23.54	9.21%	127.20	382.85	406.39	6.45%
27	80 gal.	6,000	379.74	412.85	33,11	8.72%	190.81	570.55	603.65	
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Date Prepared: February 28, 2011

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: P Original_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 83 of 100 Witness Responsible: T. Zelins / A. Moore

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50 27.8 40.6 12.17 43.65% 15.90 43.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.7.78 55.66 14.2.57 16.55 16.55 16.55 16.56 16.56 16.56 16.56 16.56 16.56 16.56 16.56 16.56 16.56 16.57 16.57 16.55 16.55 16.55 16.55 16.56 16.56 16.56 16.56 16.56 16.56 16.56 16.56 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55 16.55	Level of Demand (A)	Level of Usage (B)	Current Bill (C)	Proposed Bill (D)	Dollar Increase (f=D-C)	% increase (F = E+C)	Annualized Fuel Cost Additions to Bill (G)	Current Total BII Including Fuel IX = C+G	Proposed Total Bili Including Fuel II= D+Gi	% Change LeetH)
27.8 40.5 12.17 43.65% 15.90 43.78 55.95 97.3 110.80 12.72 25.78% 25.44 7.77 55.95 97.3 110.80 12.72 25.78% 25.44 7.77 55.96 97.3 110.80 13.46% 13.86% 47.70 145.01 168.82 97.3 110.80 13.46% 13.86% 63.80 13.87.80 55.64 10.83 12.86% 65.86 65.86 65.86 65.86 65.86 65.86 65.86 65.86 65.86 65.86 65.86 65.86 60.55 61.17 60.55 61.17 60.55 61.17 60.55 61.17 60.55 61.17 60.55 60.55 60.55 60.55 790.56 790.56 790.56 790.56 790.55 790.56 790.55 790.56 790.56 790.56 790.55 790.56 790.56 790.56 790.56 790.56 790.56 790.56 790.56 790.56 790.56 <td></td>										
49.34 62.06 12.72 25.73% 25.44 74.78 87.50 97.31 110.06 13.46 12.20 19.00% 37.90 96.05 10.02.55 97.31 110.06 13.46 12.20 19.00% 37.90 96.05 10.02.55 97.35 144.46 55.45 10.07% 12.720 379.66 63.80 192.17 208.05 252.66 278.11 55.45 10.07% 12.720 379.66 605.32 376.75 45.14 43.66 8.93.00 192.17 208.05 376.75 54.41 77.01 16.07% 127.20 379.66 405.32 376.76 63.00 12.17 43.66% 24.74% 31.50 46.51 205.56 45.1 64.57 14.46 23.47% 31.50 138.18 265.56 790.55 90.05 54.47 70.58 24.41 755.26 790.56 157.43 91.25 10.57 14.46%		500	27.88	40.05	12.17	43.65%	15.90	43.78	55.95	27,80%
64.26 75.46 12.20 18.00% 31.80 96.05 108.25 37.31 11.030 15.346 12.346% 31.80 96.05 146.01 158.55 275.55 14.4.66 15.346% 153.86% 63.31 153.66% 63.55 63.56 145.55 275.55 276.11 25.45 10.07% 127.20 379.36 605.32 27.88 40.05 12.17 43.66% 53.44 755.26 799.36 27.88 40.05 12.17 43.66% 25.44 755.26 799.36 91.32 74.30 12.720 37.44 755.26 799.36 405.32 91.32 74.31 16.54 14.46% 24.74% 755.26 799.36 91.32 74.31 16.34% 31.50 91.36 405.32 91.32 74.41 16.34% 31.50 91.36 405.32 91.32 74.31 91.36 127.20 91.36 107.32 <td< td=""><td></td><td>800</td><td>49.34</td><td>62.06</td><td>12.72</td><td>25.78%</td><td>25.44</td><td>74.78</td><td>87.50</td><td>17.01%</td></td<>		800	49.34	62.06	12.72	25.78%	25.44	74.78	87.50	17.01%
37.31 110.80 13.49 13.86% 47.70 145.01 156.50 376.75 714.46 16.88 12.36% 63.80 192.17 208.05 376.75 411.78 25.44 10.07% 127.20 379.06 45.65 376.75 411.78 25.45 10.07% 127.20 379.06 45.65 376.75 411.78 25.45 10.07% 127.20 379.06 45.55 376.75 545.44 44.56 8.90% 26.44 70.56 455.55 91.27 74.91 14.86 24.74% 31.50 43.76 406.25 91.27 143.38 34.06% 27.70 142.86 70.56 55.56 91.27 143.87 31.50 142.86 106.72 106.72 175.67 143.86 14.18% 31.60 142.61 70.56 55.56 91.27 143.87 143.86 143.06 106.72 106.74 205.55 175.61		1,000	64.25	76.45	12.20	19.00%	31.60	96.05	108.25	12.71%
128.56 144.46 15.38 12.36% 63.30 192.17 200.05 222.56 276.11 25.45 10.07% 127.20 379.86 405.32 376.75 411.78 35.64 10.07% 127.20 379.86 405.55 60.55 376.75 411.78 35.64 10.07% 12.72 379.86 405.55 376.75 545.44 44.86 8.90% 15.31 755.26 799.86 27.88 40.05 74.91 14.86 24.74% 31.80 91.85 90.65 74.91 14.88 24.74% 31.80 91.86 70.56 85.55 91.32 100.73 15.41 16.34% 47.70 142.02 166.72 91.32 108.67 24.37% 31.80 91.80 95.85 166.72 91.32 143.76 2.44 7.20 142.62 166.72 166.72 91.32 143.76 2.44 7.70 17.70 17.70 156		1,500	97.31	110,80	13.49	13.86%	47.70	145.01	158.50	9.30%
232.66 270.11 25.45 10.07% 127.20 379.86 465.32 376.75 545.44 43.86 8.90% 25.44 755.26 799.85 500.85 545.44 44.80 8.90% 25.44 755.26 799.85 500.85 545.44 44.80 8.90% 25.44 755.26 799.85 27.88 40.06 12.17 43.66% 15.31 43.66% 15.30 43.78 55.96 799.85 80.55 74.91 14.8% 25.44 70.58 85.96 79.85 80.5 74.91 16.34% 15.41 16.34% 70.58 85.96 706.72 81.5 74.91 16.34% 31.80 142.87 70.58 85.96 706.56 157.43 70.58 85.96 77.75 81.6 77.01 37.10 12.72 0.89% 127.10 127.20 708.71 708.71 708.75 601.51 82.13 675.04 65.43 9.3		2,000	128.56	144.45	15.88	12.36%	63.50	192.17	208.05	8.27%
376.75 411.76 35.02 9.30% 190.81 567.56 602.58 500.85 545.44 44.56 8.90% 254.41 755.26 793.85 27.88 40.05 12.17 43.65% 15.30 34.06% 254.41 755.26 793.85 45.14 60.52 15.38 34.06% 25.44 70.56 85.96 90.05 74.91 14.86 24.74% 31.50 91.36 106.72 91.32 109.73 15.41 16.34% 65.526 798.78 55.26 798.55 94.32 109.73 15.41 16.34% 67.57 31.60 142.02 146.73 94.32 143.66 24.74% 31.60 97.86 65.96 106.72 94.32 146.87 27.37 14.86 24.74% 37.87 74.3 176.67 14.37 0.36.96 57.30 136.91 601.51 743.7 373.76 54.47 77.27 37.81.01 <td< td=""><td></td><td>4,000</td><td>252.66</td><td>278.11</td><td>25.45</td><td>10.07%</td><td>127.20</td><td>379.86</td><td>405.32</td><td>0.70%</td></td<>		4,000	252.66	278.11	25.45	10.07%	127.20	379.86	405.32	0.70%
500.85 545.44 44.56 8.90% 254.41 755.26 793.85 27.88 40.05 12.17 43.65% 15.90 43.78 55.96 793.85 45.14 60.52 15.81 34.65% 15.90 43.78 55.96 793.85 45.14 60.52 15.81 34.65% 15.90 43.78 55.96 793.85 94.32 109.73 15.41 16.34% 75.96 793.85 106.72 94.32 109.73 15.41 16.34% 71.70 112.02 113.743 245.67 14.36% 24.74% 31.60 91.80 70.56 798.56 249.67 243.77 16.34% 12.70 14.46% 67.67 106.75 273.76 54.41 70.50 13.90.18 230.18 260.96 106.75 373.76 54.43 70.50 13.90.18 53.91.7 709.18 821.16 54.37 0.01.51 54.41 70.52 54.41		6,000	376.75	411.78	35.02	9.30%	190.61	567.56	602.58	6 17%
27.88 40.05 12.17 43.65% 15.90 43.78 55.85 45.14 60.52 15.38 34.06% 25.44 70.56 55.95 45.14 60.52 15.38 34.06% 25.44 70.56 85.96 90.05 74.91 14.86 24.74% 31.80 91.86 106.72 91.65 14.81 16.34% 16.34% 47.70 142.02 145.43 91.65 14.86 24.74% 31.80 13.81 90.81 206.96 243.67 243.67 10.86% 127.20 376.87 404.25 373.76 410.71 26.44 91.86% 132.12 601.51 243.77 10.86% 127.20 376.87 404.25 373.76 544.41 77.20 376.97 706.96 437.01 27.37 10.86% 127.20 376.97 706.56 544.37 56.44 190.81 584.57 601.51 706.56 210.8<		8,000	500.85	545.44	44.58	8.90%	254.41	755.26	799.85	5.90%
45.14 60.52 15.38 34,06% 25.44 70.56 85.96 90.05 74,91 14.86 24,74% 31.80 91.86 106.72 91.32 100.73 15.41 16.34% 47.70 14.202 15.31 9126.57 14.38 24,74% 31.80 14.202 15.43 9126.57 14.38 6.34% 16.34% 61.770 14.202 15.43 249.67 24.37 10.80% 127.20 376.81 206.96 106.72 373.76 54.47 10.80% 127.20 376.87 404.25 373.76 54.47 10.80% 55.44 70.56 55.45 497.86 55.43 10.80% 55.44 70.56 56.457 497.86 55.43 10.80% 55.44 70.56 56.457 497.86 55.44 127.20 376.87 56.457 601.51 10.80 46.66 9.34% 52.441 70.55 56.457 60		500	27,88	40.05	12.17	43.65%	15.30	43.78	55.95	77,80%
90.05 74.91 14.86 24.74% 31.80 91.86 106.72 94.32 109.73 15.41 16.34% 37.80 91.36 106.72 94.32 109.73 15.41 16.34% 37.70 132.02 157.43 249.67 247.08 14.6% 63.69 9.86% 127.20 369.18 206.96 249.67 243.37 10.46% 67.2 132.02 157.43 404.25 373.76 410.71 36.94 9.86% 127.20 376.87 404.25 373.76 54.41 27.20 376.87 1390.18 564.57 601.51 497.86 54.43 72.27 780.78 139.01 564.57 601.51 621.83 675.04 15.44 19.84% 27.44 19.34% 564.57 601.51 110.81 733.05 33.13 19.49% 53.60 107.05 296.45 203.26 110.81 770.48 53.64 19.49% 53.64		800	45.14	60.52	15.38	34.06%	25.44	20.58	85.96	24.78%
94.32 109.73 15.41 16.34% 47.70 14.202 157.43 126.67 143.36 17.80 14.16% 63.60 139.16 206.96 243.67 27.37 10.96% 127.20 376.87 404.25 249.7 27.37 10.96% 127.20 376.87 404.25 249.7 26.61 9.34% 27.37 10.96% 127.20 376.87 601.51 497.86 54.37 46.61 9.34% 264.41 782.27 788.78 601.51 497.86 54.37 46.61 9.34% 264.11 782.27 788.78 601.51 82.80 75.24 12.44 19.81% 31.8.01 939.97 996.05 170.48 203.60 33.13 19.49% 63.60 107.05 107.05 170.48 203.60 33.1.8 19.49% 63.60 107.05 364.76 170.48 203.60 33.1.8 19.49% 63.60 3661 203.47 <td></td> <td>1,000</td> <td>80.05</td> <td>74.91</td> <td>14.86</td> <td>24.74%</td> <td>31.50</td> <td>91.86</td> <td>106.72</td> <td>16.18%</td>		1,000	80.05	74.91	14.86	24.74%	31.50	91.86	106.72	16.18%
125.57 143.36 17.80 14.16% 63.60 139.18 206.96 249.67 277.04 27.37 10.96% 127.20 376.87 404.25 37.76 44.07 36.94 9.88% 190.81 56.457 601.51 497.86 54.437 46.51 9.88% 190.81 56.457 601.51 497.86 54.437 46.51 9.34% 254.41 752.27 708.77 675.04 56.08 9.02% 315.01 83.937 966.05 671.87 66.61 9.02% 315.01 83.937 966.05 110.87 139.06 2.2.78 19.49% 63.50 130.47 203.26 170.48 203.60 33.13 19.43% 95.40 295.48 299.47 277.69 33.13 19.49% 63.50 130.47 203.26 170.48 203.66 63.50 130.47 203.26 394.76 277.69 331.20 331.20 356.46		1,500	94.32	109.73	15.41	16.34%	47.70	142.02	157.43	10.85%
248.67 277.04 27.37 (0.96% 127.20 376.87 404.25 373.76 410.71 36.94 9.88% 130.61 376.87 404.25 373.76 410.71 36.94 9.88% 130.61 376.87 404.25 373.76 410.71 36.94 9.88% 130.61 54.57 601.51 497.86 54.437 46.51 9.34% 254.41 752.27 798.78 621.85 675.04 56.08 9.02% 318.01 939.97 966.05 110.87 139.06 75.24 12.44 19.81% 31.80 94.61 107.05 170.48 203.60 33.13 19.49% 63.50 160.47 203.26 170.48 203.66 33.13 19.49% 63.50 107.05 364.76 274.08 237.55 43.47 19.49% 55.40 255.88 299.01 274.08 237.55 43.47 19.49% 55.40 265.88 296.26 <td></td> <td>2,000</td> <td>125.57</td> <td>143.38</td> <td>17.80</td> <td>14.18%</td> <td>63.60</td> <td>189.18</td> <td>206.98</td> <td>9.41%</td>		2,000	125.57	143.38	17.80	14.18%	63.60	189.18	206.98	9.41%
373.76 410.71 36.94 9.88% 190.81 58.457 601.51 497.86 544.37 46.51 9.34% 254.41 786.77 601.51 497.86 544.37 46.51 9.34% 254.41 782.27 786.78 621.85 545.04 56.08 9.02% 318.01 830.97 996.65 678.04 56.08 9.02% 318.01 830.97 996.65 678.04 56.08 9.02% 318.01 830.97 996.65 110.87 1390.66 22.78 19.49% 63.50 100.47 203.26 170.48 203.60 33.13 19.49% 63.50 100.47 203.26 274.08 237.55 43.47 19.49% 63.50 100.47 203.26 274.08 237.55 43.47 19.49% 53.50 100.47 203.26 271.08 231.20 331.20 334.20 2361.29 364.76 271.60 235.41 19.49% </td <td></td> <td>4,000</td> <td>249.67</td> <td>277.04</td> <td>27.37</td> <td>10.96%</td> <td>127.20</td> <td>376.87</td> <td>404.25</td> <td>7.28%</td>		4,000	249.67	277.04	27.37	10.96%	127.20	376.87	404.25	7.28%
497.86 544.37 46.51 9.34% 254.41 752.27 708.78 621.35 676.04 56.08 9.02% 318.01 839.97 986.05 62.80 75.24 12.44 19.81% 31.80 94.61 107.05 116.87 139.06 27.78 19.49% 63.50 180.41 203.26 170.48 139.66 27.78 19.49% 63.50 180.41 203.26 170.48 139.66 27.78 19.49% 63.50 180.41 203.26 277.69 231.50 55.82 19.49% 63.50 361.29 364.76 277.60 267.55 43.47 127.20 361.29 364.76 277.60 263.41 159.01 456.69 490.51 652.16 642.61 277.60 53.35 19.36% 252.41 692.51 642.61 642.61 284.80 74.86 19.36% 252.41 692.91 777.76 522.16 662.61 652.1		B.000	373.76	410.71	36.95	9.88%	190.61	564.57	601.51	6.54%
621.35 675.04 56.08 9.02% 318.01 839.87 986.05 62.80 75.24 12.44 19.81% 31.80 94.61 107.05 110.87 139.65 22.78 19.49% 63.60 180.47 203.26 170.48 20360 33.13 19.49% 63.60 180.47 203.26 170.48 20360 33.13 19.49% 63.60 180.47 203.26 277.69 33.15.0 53.47 19.49% 63.60 180.47 203.26 277.69 331.50 53.82 19.49% 137.20 364.76 236.26 277.69 331.26 53.78 19.091 522.10 584.76 490.51 311.29 355.45 19.37% 190.91 522.10 584.76 522.10 584.76 313.126 53.335 84.86 19.35% 252.41 697.51 582.01 582.01 582.01 577.17		8,000	497.86	544.37	46.51	9.34%	254.41	752.27	798.78	6.15%
52 80 75.24 12.44 19.81% 31.80 94.61 107.05 110.87 139.66 22.78 19.49% 63.60 180.47 203.26 170.48 203.60 23.13 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.49% 63.60 180.47 203.26 274.08 236.75 43.47 19.49% 137.720 364.78 289.01 277.69 331.56 5.3.82 19.49% 137.720 364.76 496.51 331.28 395.45 64.16 19.37% 190.81 522.10 586.26 384.90 74.50 19.36% 222.61 607.51 682.01 438.50 523.35 84.86 19.35% 254.41 892.91 777.76		10,000	621.95	676.04	56.08	9.02%	318.01	28.828	996.05	5.97%
52.80 75.24 12.44 19.81% 31.80 94.61 107.05 116.87 139.65 22.78 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.43% 95.40 256.88 299.01 274.08 255.55 43.47 19.40% 127.20 361.29 394.76 277.69 381.50 55.382 19.37% 190.61 450.51 660.51 331.28 395.45 19.37% 190.61 522.10 566.28 294.76 331.28 395.45 19.37% 190.61 522.10 566.28 282.01 384.90 735.55 84.86 19.35% 252.41 697.51 562.01 438.50 523.35 84.86 19.35% 254.41 692.91 777.78										
52 80 75 24 12.44 19.81% 31.80 94.61 407.05 110.87 139.65 22.78 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.49% 63.60 180.47 203.26 224.08 257.55 43.47 19.40% 127.20 351.29 394.76 277.69 331.50 55.382 19.37% 190.81 450.51 586.28 331.28 395.45 64.16 19.37% 190.81 522.10 586.28 384.90 74.50 19.36% 222.61 607.51 682.01 384.85 523.35 84.86 19.35% 254.41 892.91 777.78										
116.87 130.65 22.78 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.49% 63.60 180.47 203.26 170.48 203.60 33.13 19.43% 95.40 265.88 299.01 224.08 257.55 43.47 18.40% 127.20 351.29 364.76 277.69 381.60 53.82 19.37% 190.81 456.9 364.76 331.28 335.45 54.16 19.37% 190.81 522.10 586.28 384.90 74.50 19.36% 222.61 607.51 682.01 384.80 523.35 84.86 19.35% 254.41 892.91 777.78		1,000	52.80	75.24	12.44	19.81%	31.80	94.61	107.05	13.15%
170.48 203.60 33.13 19.43% 95.40 265.88 299.01 224.08 237.55 43.47 19.40% 127.20 364.76 294.76 274.08 237.55 43.47 19.40% 127.20 364.76 394.76 277.69 331.50 53.82 19.38% 155.01 436.69 490.51 331.28 335.45 64.16 19.37% 190.61 522.10 588.28 384.90 74.50 19.36% 222.61 692.61 682.01 384.80 523.35 84.86 19.36% 222.61 682.01 438.50 523.35 84.86 19.36% 254.41 692.91 77.77		2,000	116.87	139.65	22.78	19.49%	63.60	180.47	203.26	12.62%
224.08 257.55 43.47 19.40% 127.20 351.29 394.76 277.69 331.50 53.82 19.38% 159.01 436.69 490.51 331.29 395.45 64.16 19.37% 190.81 522.10 588.26 384.80 450.4 193.8% 190.81 522.10 588.26 384.80 456.0 19.37% 190.81 522.10 588.26 384.80 74.50 19.36% 222.61 607.51 588.20 438.50 523.35 84.85 19.35% 254.41 697.51 582.01		3,000	170.48	203.60	33.13	19.43%	95.40	265.88	299.01	12.46%
277.69 331.50 53.82 19.38% 159.01 436.69 490.51 331.29 395.45 64.16 19.37% 190.81 522.10 588.26 384.80 459.40 74.50 19.36% 222.61 607.51 582.01 438.50 523.35 84.85 19.35% 254.41 697.51 582.01		4,000	224.08	267.55	43.47	19.40%	127.20	351.29	394.76	12.37%
331.29 395.45 64.16 19.37% 190.81 522.10 588.26 384.80 459.40 74.50 19.36% 222.61 607.51 682.01 438.50 523.35 84.86 19.35% 254.41 692.91 777.78		5,000	277.69	331.50	53.82	19.38%	159.01	436.69	490.51	12.32%
384.80 4 5 9.40 74.50 19.36% 222.61 607.51 682.01 438.50 523.35 84.85 19.35% 254.41 692.91 777.78		6,000	331.29	395.45	64.16	19.37%	190.81	522.10	588.28	12.29%
438.50 523.35 84.86 19.35% 254.41 892.91 777.78		7,000	384.90	459.40	74.50	19.36%	222.61	607.51	682.01	12.26%
		8,000	438.50	523.35	84.85	19.35%	254.41	692.91	777.78	12.24%

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bil Comparison (Electric and Gas Utilities)

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: P Original_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 34 of 100 Witness Responsible: T. Zelina / A. Moore,

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roposed otal Bill	•	(j= D+G) (J=E+H)							- 1		790.27 8.67%	-		-						802.78 5.42%				•			567.49 20.58%		
		() H=C+G)		98.89	189.05	278.75	368.44	458.14	547.83	637.53	727.22	01 601		CO./AL	291.61	385.60	479.58	573.57	667.55	761.53		86.03	163.32	240,15	316.98	393.80	470.63	547.46	
Annualized Fuel Cost	Additions to Bill	(8)		31.60	63.60	95.40	127.20	159.01	190.81	222.61	254.41	00 PC		10.00	95.40	127.20	159.01	190.81	222.61	254.41		31.80	63.60	95.40	127.20	159.01	190.81	222.61	
	% Increase	(F # E+C)		14.48%	13.82%	13.61%	13.50%	13.44%	13.39%	13.36%	13.33%	7007. U	0/0/0	0.0.0	8.55%	8.39%	8.29%	8.22%	8.17%	8.13%		32.99%	33.78%	34.18%	34.40%	34.53%	34.61%	34.68%	
	Dollar Increase	(E=D-C)		9.71	17.33	24.95	32.57	40.19	47.81	55.43	63.05	90.5		22.1	16.78	21.67	26.55	31.46	36.35	41.25		17.89	33.68	49.48	65.27	81.07	96.86	112.65	L. 0000
	Proposed Bill	Q		76.81	142.78	208.29	273.81	339.32	404.83	470.35	535.86	10 0£		A.C.	212.99	280.06	347.14	414.22	481.29	548.37		72.12	133.40	194.22	255.04	315.86	376.69	437.51	
	Current Bill	Û		60.79	125,45	163.34	241.24	299.13	357.03	414.92	472.81	00 VZ	0010	50.45	196.21	268.39	320.58	382.76	444.84	507.12		54.23	99.71	144.74	189.77	234.80	279.83	324.85	200 000
	Level of Usage	(8)		1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	uuu +		2,000	3,000	4,000	5.000	6,000	7,000	8,000		1,000	2,000	3,000	4,000	5,000	6,000	7,000	0000
	Level of Demand	(A)		%	%							70	2									%	8						
	Rate Code		RS-TOD		Off-Peak 70%											-							Off-Peak 85%						
	Lin . No.		-	~	e S	4	ŝ	¢	7	e0	ລູ	₽:	: £	2 :	13	14	15	16	17	18	6				챴	8	紀	27	2

POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical BHI Comparison (Electric and Gas Utilitias)

> Data: 3 MCS Actual & 9 MOS Estimated Typs of Filing: ... P Original_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 85 of 100 Witness Responsible: T. Zetina / A. Moore

ine A	Rate		to level	l eval of	trees of	Dronoed	Dallar	5	Annualized Fuel Cost Additione	Current Total Bill Institution	Proposed Total Bill Including	÷.
No.	Code		Demand (A)	Usage (B)	Bill (C)	Bill (D)	build: Increase (E=D-C)	ncrease (F = E+C)	to Bill (G)	Fuel (H = C+G)	Fuel (= D+G)	% Change (J=E+H)
-	RS-ES											
2	On - Peak	20%		1,000	58.52	73.68	15.16	25.92%	31.80	90.32	105.48	16.79%
e	Off-Peak	80%		2,000	108.29	136.53	28.23	26.07%	63.60	171.89	200.13	16.42%
4				3.000	157.61	198.91	41.30	26.21%	95.40	253.01	294.32	16.32%
ŝ				4,000	206.93	261.30	54.37	26.28%	127.20	334.13	388.50	16.27%
Ģ				5,000	256.24	323.68	67.44	26.32%	159.01	416.25	482.69	16.24%
~				ê.000	305.56	386.07	80.51	26.35%	190.81	496.37	576.88	16.22%
*				7,000	354.88	448,45	93,58	26.37%	222.61	577.48	671.06	16.20%
6) -				8,000	404.19	510.84	106.65	26.39%	254.41	658.60	765.25	16.19%
₽:												
11	On - Peak	25%		1,000	62.80	75.24	12.44	19.81%	31.80	94.61	107.05	13.15%
5	Off-Peak			2.000	116.87	139.65	22.78	19.49%	63,60	180.47	203.26	12.62%
13				3,000	170.48	203.60	33.13	19.43%	95.40	265.88	299.01	12.46%
14				4,000	224.08	267.55	43.47	19.40%	127.20	361.29	394.76	12.37%
15				5,000	277.69	331.50	53.82	19.38%	159.01	436.69	490.51	12.32%
16				6,000	331.29	395,45	64.16	19.37%	190.81	622.10	586.26	12.29%
17				7,000	384.90	458.40	74.50	19.36%	222.61	607.51	682.01	12.26%
\$ <u></u>				8,000	438.50	523.35	84,85	19.35%	254.41	692.91	97.775	12.24%
62 8												
2												
2	Unmetered			50	11.30	11.83	0.63	5.66%	1.65	12.94	13.57	4.85%
22				100	14,19	15.66	1.47	10.35%	3.29	17.48	18.95	8.40%
23				150	17.08	19.39	2.31	13.51%	4.94	22.02	24:33	10.48%
2				200	19.87	23.12	3.15	15.76%	6.58	26.56	29.70	11.85%
25				400	31.54	38.05	6.51	20.64%	13.17	44.70	51.21	14.56%
8				- 700	48.89	60.43	11.55	23.62%	23.04	71.93	83.47	16.06%
27				1.000	66.24	82.82	16.59	25.04%	32.91	99.15	115.74	16.73%
83				1,500	95.15	120.14	24.99	26,26%	49.37	144.52	169.51	17.29%
R				2,000	124.06	157.45	33.39	26.91%	65.83	189.89	223.28	17.58%
8				4,000	236.60	305.79	66.99	28.05%	131.65	370.45	437.44	18.08%
31				8,000	468.27	602.46	134.19	28.66%	263.30	731.67	865.76	18.34%
32				10,000	583.01	750.79	167.79	28.78%	329.13	912.14	1,079.92	18.39%
8				15,000	869.64	1,121.63	251.79	28.95%	493.70	1,363.54	1,615.33	18.47%
ষ্ঠ				25,000	1,437.82	1,857.71	419.78	29.19%	822.83	2,260.75	2,680.53	18.57%

POST-MERGER CHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

> Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: P Original_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 88 of 100 Witness Responsible: T. Zelina / A. Moore

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No.	Rate Code	Level of Demand (A)	Level cf Usage (B)	Current Bili (C)	Proposed Biff (D)	Dollar Increase (F=0-C)	% Increase (F = E+C)	Aumulized Fuel Cost Additions to Bill (G)	Current Total Bill Including Fuel (H = C+G)	Froposed Total Bill Including Fuel ()= D+G)	% Change {J=E+H}
1. GS-1	S S										
No.	On-Peak 10	2%	500	35.83	39.04	3.21	8.95%	16.46	52.29	56.50	6.13%
5		80%	000'1	54.42	67.15	12.73	23.38%	32.91	87.33	100.06	14.57%
4			2,000	91.59	123.36	31.76	34.68%	65.83	157.42	189.18	20.18%
Q.			4,000	165.01	234.85	69.84	42.33%	131.65	296.66	366.51	23.54%
9			6,000	236.43	346.35	107.92	45.26%	197.48	435.91	543.83	24.76%
۲۰۰ ۵			8,000	311.85	457.85	146.00	46.82%	263.30	575.16	721.16	25.38%
\$ • •		5%	500	37.11	40.18	3.07	8.26%	16.46	53.57	56.64	5.72%
5	Off-Peak 8:	85%	1,000	56.98	69.43	12.44	21.84%	32.91	89.88	102.34	13.84%
î			2,000	96.71	127.91	31.20	32.26%	66.83	162.54	193.74	19.20%
12			4,000	175.25	243.97	68.72	39.21%	131.65	306.90	375.62	22.39%
13			6,000	253.79	360.03	106.23	41.86%	197.48	451.27	557.51	23.54%
14			8,000	332.33	476.08	143.75	43.25%	263.30	595.64	739.39	24.13%
15											
8 ≇		3%	500	36.36	41.32	2.93	7.62%	16.46	54.85	57.78	5.33%
11 12	Off-Peak 8(80%	1,000	59.54	71.70	12.16	20.43%	32.91	92.45	104.62	13.16%
18			2,000	101.83	132.47	30.64	30.09%	65.83	167.66	198.30	18.28%
19			4,000	185.49	253.09	67.59	36.44%	131.65	317.14	384.74	21.31%
ନ୍ଦ			6,000	269.15	373.70	104.55	38.84%	197.48	466.63	571.18	22.40%
ភ			8,000	352.81	494.31	141.50	40.11%	263.30	610.12	757.62	22.97%

Date Prepared: February 28, 2011

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original___Updated___Revised Work Peper Reference No(s): N L പതന **GS-**2-<u>6</u>9-1 Rec. Lighting Rate Level of Demand (A) Level of Usage (B) Gurrent Bill (C) 22.87 26.03 32.36 45.01 63.96 82.96 82.96 114.56 114.56 522.98 648.56 648.56 48.76 55.54 61.33 67.13 84.45 96.02 96.02 96.02 96.02 96.02 107.59 119.15 119.1 Proposed Bill (D) 17.99 24.56 24.56 60.58 60.58 80.39 113.23 146.07 276.51 146.07 276.51 146.07 276.51 146.07 276.51 146.07 276.51 146.07 276.51 1537.40 557.50 557.50 557.50 557.50 557.50 557.50 557.50 557.50 557.50 557.50 557.50 577.50 54.74 52.21 77.13 144.50 1144.50 1144.30 1144. Dollar Increase (E=D-C) (4.88) (4.76) (4.76) (4.82) (4.82) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.83) (4.84) (4.84) (4.84) (4.84) (4.84) (4.84) (4.85) (4 % Increase (F = E+C) -11.28% -13.86% -13.86% -3.10% -3.10% -1.19% 2.76% 2.27% 3.26% 10.01% 11.69% 11.89% 11.89% 11.89% 11.89% 20.24% 22.10% 22.10% 22.110% 22.12% 23.56% 23.56% 24.08% 24.08% 24.08% 24.08% 24.08% Annualized Fuel Cost Additions to Bilt ଭ 1.50 3.00 4.50 21.00 20.00 21.00 21.00 20.00 20 19.75 28.04 28.33 28.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 29.50 20.50 Current Total Bill Including Fusi (H = C+G) 24.37 29.03 33.370 38.36 67.01 84.39 112.97 14.297 159.60 206.22 391.82 763.01 948.81 1,412.60 2,334.98 68.51 78.58 87.55 88.73 123.95 142.10 160.25 142.10 160.25 232.66 259.74 259.74 268.77 268.77 268.83 304.86 337.11 107 241.00 337.11 Proposed Total Bill Including Fuei (I= D+G) 19.49 24.27 29.06 33.84 52.90 110.39 110.39 110.39 206.08 306.53 206.08 74.49 85.24 96.00 106.75 1360.1 1360.52 162.03 267.86 267.86 267.86 300.00 310.71 333.25 333.54 333.55 336.35 492.75 % Change (J=E+H) -20.03% -16.40% -13.77% -11.78% -2.28% -0.85% -0.85% -0.07% -2.28% -2.28% -2.23% 7.17% 9.52% 9.52% 10.36% 12.15% 12.15% 13.59% 13.59% 15.85% 15.85% 15.75

POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Schedule E-5 Page 87 of 100 Wilness Responsible: T. Zelina / A. Moore

POST-MERGER OHO POWER COMPANY - OHO POWER RATE AREA Casa No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Schedule E-5 "Page 88 of 100 Witness Responsible: T. Zelime / A. Moore

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GS-2 Secondary	Rate Code
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Level of Demand (A)
1,000 2,000 3,000 5,000 5,000 5,000 5,000 15,000 15,000 20,000 100,000 50,000 100,000 20,000 100,000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,0000 20,00000000	Level of Usage (B)
113,22 160,48 263,51 360,51 360,51 360,51 360,51 477,50 677,58 676,28 676,28 676,28 677,58 676,28 677,58 676,28 1,272,72 1,374,06 8,547,18 6,547,18 7,356,501 11,355,833,97 7,356,501 11,355,833,97 11,255,833,97 11,255,833,97 11,255,833,97 11,255,833,97 11,255,833,97 11,255,833,97 11,255,833,97 11,255,833,97 11,255,833,97 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,835,90 11,254,90 12,155,90 12,15	Current SIM (C)
126.85 126.85 173.75 225.60 283.38 408.49 570.15 846.93 1,195.27 1,195.27 1,195.27 1,195.27 1,186.42 1,195.27 1,280.42 2,228.02 2,228.02 2,228.02 3,140.15 1,582.56 5,552.56 5,552.56 10,121.73 11,040.13 3,502.46 60,450.51 10,1970.56	Proposed Bill (D)
13.63 13.27 13.27 13.27 149.86 48.10 149.86 48.10 149.86 149.86 149.86 149.86 149.86 149.86 149.86 149.86 149.86 149.86 149.86 15.38 16.385 16.385 16.385 16.385 16.385 16.385 16.385 16.385 16.385 16.385 1	Dollar Ingrease (E=D-C)
12.04% 8.27% 13.04% 14.5.63% 15.63% 15.63% 15.63% 15.63% 15.63% 15.63% 15.63% 15.63% 15.63% 15.63% 15.63% 17.75% 12.31% 15.63% 17.85% 17.85% 17.85% 17.85% 13.06% 13.19% 13.19%	% Increase (F = E+C)
30.00 60.01 75.01 160.02 160.02 160.02 160.02 160.02 160.02 160.02 160.02 160.02 160.02 1,200.03 1,200	Annualized Fuel Cost Additions to Bill (G)
143.23 2200.49 318.52 510.52 510.52 980.92 1,977.34 1,977.34 1,977.34 2,720.38 2,720.38 5,825.57 1,977.34 2,720.38 5,825.57 1,977.34 2,825.57 1,977.34 2,825.57 1,977.34 2,825.57 11,635.57 11,655.57 11,655.57 11,655.57 11,655.57 11,655.5	Current Total Bill Including Fuel (H = C+G)
158.85 233.76 340.21 358.53 558.53 558.53 558.53 558.53 558.53 558.53 7.50.54 7.50.54 7.20.18 7.1,845.34 7.1,845.34 7.032.75 5.865.37 7.032.75 14.962.53 7.032.75 14.962.53 21,626.53 22,526.53 21,626.53 21,626.53 22,526.53 21,626.53 22,526.53 23,537 24,536.55 25,537 25,537 25,537 26,537 26,537 26,537 26,537 26,537 26,537 27,537 27,537 26,537 27,537 26,537 27,5377 27,5377 27,5377 27,5377 27,53777 27,5377777777777777777777777777777777777	Proposed Total Bill Including Fuel (I= D+G)
8.51% 6.02% 6.02% 6.85% 6.85% 6.85% 11.92% 7.75% 8.23% 11.92% 7.75% 8.23% 8.23% 11.52% 8.23% 12.00% 8.23% 8.23% 12.20% 8.23% 12.56% 8.88% 8.25% 8.5% 8.25% 8	%. Change (J=E++1)

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: P-Original__Updated____Revised Work Paper Reference No(s);

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-362-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original__Updated__Revised Work Paper Reference No(s):

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			CS-2 Phimary	Rale Code
3,000 7,000 7,000 7,000	1,000 1,000 3,000 3,000	500 500 500		Level of Demand (A)
900,000 700,000 1,400,000 2,100,000	100,000 200,000 300,000 600,000	20,000 100,000 50,000 150,000	1,000 2,500 5,500 7,500 10,000 15,000 15,000 15,000 15,000 10,000 22,500 10,000	Level of Usage
50,307.65 53,582.66 84,228.00 114,553.22	7,756.28 12,329,12 16,901.99 23,031,73 36,750.32	1.646.07 2.560.05 3.475.22 6.223.82 8.510.26	186.60 233.6 2779.6 2779.6 2779.6 2779.6 418.19 533.9 1,024.7 1,024.7 1,034.2 1,377.2 9 679.50 679.50	Current Bill (C)
56,212.36 67,894.91 98,377.78 128,560.32	9,799.01 14,297.22 18,834.82 29,136.05 42,750.85	2.008.24 2.915.76 3.823.28 4.915.01 7.183.81 9.452.61	158.89 205.39 205.83 305.83 420.47 535.31 549.26 778.84 1,008.62 792.89 1,137.73 1,036.52 1,493.08	Proposed Bill (D)
5,904.71 14,312.25 14,149.78 14,007.10	2,003.35 1,968.09 6,106.32 6,000.53	362.17 355.12 348.06 977.61 959.98 942.35	(27.81) (27.93) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (28.32) (27.81) (27.81) (27.81) (27.81) (27.81) (27.81) (27.81) (27.81) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (27.93) (28.32	Dollar Increase (E=D-C)
11.74% 26.71% 16.80% 12.23%	25.83% 15.96% 26.51% 16.33%	22.00% 13.87% 15.42% 11.07%	-14.80% -11.98% 0.26% 0.26% 11.04% 5.32% 5.32% 5.32% 5.32% 5.32% 5.32%	% Increase (F = E+C)
24,510,51 19,063,73 38,127,46 57,191,19	2,723.39 5,446,78 8,170,17 8,170,17 16,340,34	544.68 1,089.36 1,634.03 2,723.39 4,085.09	27.23 54.4.7 81.70 88.08 136.17 204.25 204.25 204.25 612.76 612.76 612.76	Annualized Fuel Cost Additiona to Bill (G)
74,818.16 72,646.39 122,355.46 171,744.41	17,775,90 17,775,90 26,072,16 31,201,90 53,090,86	2,190,75 3,660,00 5,109,25 5,299,09 5,299,09	213.84 287.82 361.34 554.36 735.13 735.134 530.85 988.59 1.366.21 891.41 891.81 1,442.83 1,990.05 1,151.84	Current Total Bill Including Fuel (H = C+G)
80,722.87 86,958.64 136,505.24 185,751.51	12,463.00 19,744.00 27,004.99 37,308.22 59,091.19	2,552.92 4,005.12 5,457.32 9,907.20 13,537.69	186.22 229.85 333.02 373.71 556.64 739.56 665.43 1,051.28 1,051.28 997.14 1,545.92 2,050.49 1,308.86 2,037.76	Proposed Total Bill Including Fuel (I= D+G)
7.89% 19.70% 8.16%	11.07% 7.71% 11.30%	16.53% 9.73% 6.81% 18.45% 10.73% 7.48%	-12.91% -7.291% -7.84% 0.46% 0.41% 0.41% 5.28% 5.28% 11.86% 1.1.86% 5.05% 5.05% 5.16%	% Change (J≡E+HI

Date Prepared: February 28, 2011

Schedule E-5 Page 89 of 100 Witness Responsible: T. Zelinø / A. Moore

No. 555556666666662222222226667652323 Subtransmission GS-2 Code Level of Demand (A) Level of Usage (B) 383.76 476.13 476.13 476.13 476.13 476.13 476.13 476.13 476.13 476.13 872.46 872.46 872.46 872.46 1.132.03 872.46 1.537.77 1.032.75 1.489.53 1.942.45 1.537.77 1.750.55 2.658.50 3.856.4563.856.45 3.856.4563.85 Current Bill (C) Proposed Bill (D) 975.56 1,067.23 1,067.23 1,067.23 1,055.12 1,255.12 1,284.15 1,284.16 1,455.69 1,455.69 1,456.66 1,475.69 1,456.66 1,987.81 2,260.30 1,287.81 2,288.81 2,278.85 3,0277.75 5,000 2,274.438 3,772.84 3,772. 563.82 562.64 562.64 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 515.42 517.18 517.18 515.42 517.18 515.42 517.18 515.42 517.18 51 Dollar Increase (E=D-C) 591.80 591.45 591.10 % Increase (F = E+C) 114.53% 77.84% 77.84% 76.91% 57.13% 55.73% 39.08% 39.08% 39.08% 39.08% 21.45% 21.45% 21.45% 21.45% 21.45% 21.45% 21.45% 5.51% 4.24% -10.62% -10.62% -10.62% 154.21% 137.49% 124.15% Annualized Fuel Cost Additions to Bill (G) Current Totat Bill Including Fuel 411.99 540.85 540.85 540.83 540.83 540.83 540.83 540.83 540.83 540.83 540.85 55 (H = C+G) Proposed Total Bill Including Fuel (I= D+G) 1,003.78 1,151.93 1,151.93 1,151.93 1,151.93 1,128.71 1,305.91 1,306.920 1,534.91 2,069.20 1,739.01 2,069.20 1,739.01 2,2638.30 2,2658.83 2,267.39 2,2552.60 2,2552.60 2,2554.83 2,554. % Change {J=E+H} 143.64% 1105.420% 1105.40% 1105.40% 1105.16% 1105.16% 1105.16% 1105.16% 1105.22%1105.22% 1105.22% 1105.22%1105.22% 1105.22%110% 1105.22% 1105.22%1105.22 -10,48% -7.49%

POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated___Revised Work Paper Reference No(s):

Page 90 of 100 Witness Responsible: T. Zelina / A. Moore

<u>s</u> GS-3 Secondary Code Level of Demand (A) 3,500 5,500 5,500 5,500 5,500 11,250 11,250 12,500 12,500 11,500 55,000 11,5000 11,5000 11,5000 11,5000 11,5000 11,5000 11,50000 Level of Usage (B) 241.13 256.245.16 569.66 569.66 1,085.17 1,085.71 1,167.99 1,167.99 1,167.99 1,167.99 1,162.58 1,162.5 Current Bill (C) Proposed Bill [D) 228.09 287.20 287.20 287.034 606.97 1,122.63 1,123.63 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,127.53 1,277.55 1,277.55 1,2 Dollar Increase (E=D-C) (3.304 % Increase (F = E+C) 1 - 1 - 28% - 1 - 28% - 1 - 28% - 1 - 28% - 1 - 28% - 1 - 28% - 1 - 28% - 1 - 28% - 28 Annualized Fuel Cost Additions to Bill 98.86 152.11 152.21 152.21 152.21 152.21 152.21 152.22 247.16 247.16 88.88 8494.88 8494.88 105.12 1,251.07 1,251.21 1,251.25 1,251.21 1,251.25 1,255.25 2,255.25 2,25 G Current Total Bill Including Fuel (H = C+G) 339.99 383.25.56 426.50 809.30 917.43 1.025.56 1.590.07 1.803.53 3.017.71 3.144.65 3.144.653.145.65 3.144.65 3.144.653.145.65 3 1,031,99 1,616,99 1,866,99 2,0402,868 2,0402,868 2,2412,98 3,048,07 3,2048,07 3,2028,98 3,048,07 4,055,764,055,76 4,055,76 4,055,764,055,76 4,055,76 4,055,764,055,76 4,055,764,055,76 4,055,76 4,055,764,055,76 4,055,764,055,76 4,055,764,055,76 4,055,76 4,055,764,055,764,055,76 4,055,764,055,76 4,055,764,055,764,055 Proposed Total Bill Including Fuel (I= D+G) 338,95 379,85 422,75 817,49 924,74 % Change (J=E+H) $\begin{array}{r} -6.080 \\ -0.80 \\ -0.80 \\ -0.80 \\ -0.80 \\ -1.018 \\ -1.018 \\ -1.018 \\ -1.018 \\ -1.018 \\ -1.018 \\ -1.018 \\ -1.018 \\ -1.008 \\$

POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Schedule E-5 Page 91 of 100 Witness Responsible: T. Zellna / A. Moore

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GS-3 Primary Code Level of Demand A Level of Usage (B) (C) Current 312.86 312.86 343.842 655.87 1,122.41 1,122.41 1,1272.43 1,272.43 Proposed Bill (D) 268.15 294.36 294.36 294.36 294.36 294.36 294.36 294.36 1,065.94 1,065.94 1,066.38 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,242.88 1,245.96 2,415.33 4,760.31 10,352.60 11,262.72 11,278.19 22,560.11 22,056.04 23,510.85 11,062.72 11,278.50 14,273.90 157,404.79 90 Dollar Increase (E=0-C) (43.74) (44.4.06) (37.96) (37.96) (37.96) (37.96) (37.96) (37.96) (37.96) (37.96) (37.96) (17.4.98) (17.4.98) (17.4.98) (17.4.98) (17.4.90) (17.4. Increase (F = E+C) 143.97% 1213.97% 1213.42% -6.01% -5.79% -2.32% -2.32% -2.32% -2.32% -2.32% -1.01% -2.32% -2.32% -2.10% -1.10% -1.10% -2.10% 1.26% 1.26% 1.26% 1.26% 1.26% 1.26% 2.10% 2.10% 2.10% 2 Annualized Fuel Cost Additions to BM 1,123,40 1,225,53 1,467,586 1,906,37 1,467,586 1,906,37 2,945,05 2,945,05 4,765,87 4,765,87 4,765,83 5,7489,32 7,449,32 ឲ្ 95.32 122.55 236.30 236.30 306.38 306.38 374.47 476.59 612.76 612.76 612.76 746.93 746.93 Current Total BIII Including Fuel (H = C+G) 408.18 408.18 493.77 1,598.025 1,598.025 1,598.025 1,598.025 2,021.36 2,021.36 2,021.36 2,021.36 2,021.36 2,021.36 2,021.36 2,021.36 3,079.49 3,079.49 3,079.49 3,079.49 3,079.49 3,079.49 3,079.49 4,022.78 4,022.78 12,023.32 112,025.72 3,051.71 38,1725.02 112,025.72 3,051.71 38,1255.72 112,025.72 3,051.71 38,1255.72 112,025.72 3,051.71 38,1255.72 3,051.71 38,1255.72 3,051.71 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.72 3,051.74 38,1255.75 3,051.74 38,1255.75 3,051.75 3,051.743,051.75 3,051.753,051.75 3,051.753,051.753,051.75 3,051.753,051.753,051.75 364,47 4496,92 4496,92 818,19 924,29 1,000,40 1,572,98 1,782,39 1,782,39 1,782,39 1,782,39 2,982,51 2,982,51 3,913,55 3,914,39 2,982,51 3,914,393 3,914,393 3, Proposed Total Bill Including Fuel (|= D+G) % Change (J=E+H) -10071% -5.68%-5.68% -5.68%-5.68% -5.68% -5.68% -5.68%-5.68% -5.68% -5.68%-5.68% -5.68% -5.68%-5.68% -5.68%-5.68% -5.68%-5.68% -5.68%-5.68% -5.68%-5.68% -5.68%-5.68% -5.68%-5.68% -5.68%-5.68% -5.68%-5.68%-5.68% -

POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Data: 3 MOS Actual & 9 MOS Estimated Type of Ftlling: ►Original_Updatad__Revised Work Paper Reference No(s):

No In

Witness Responsible; T. Zelina / A. Moore

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No Fr 28282828282828286555555555555 4004 ŝ Subtransmission Code Level of Demand ß 3,500 5,500 5,500 5,500 5,500 11,250 17,500 17,500 227,500 227,500 41,250 33,750 41,250 41,250 41,250 41,250 41,250 326,000 11,50,000 11,50,000 550,000 11,650,000 3,160,000 3,180,000 3,180,000 3,180,000 Level of Usage (B) Current Bill (C) 508.64 508.64 843.05 843.05 1.293.16 1.293.16 1.293.16 1.293.16 1.293.16 1.293.16 1.293.16 1.293.16 1.293.16 1.293.16 1.209.20 2.257.209.20 2.257.209.20 2.257.209.20 2.257.209.20 4.217.25 4.517.28 4.527.59 5.52 Proposed Billi (D) 1,084.34 1,109.87 1,115.39 1,226.94 1,226.94 1,226.94 1,226.94 1,244.56 1,244.56 1,244.59 2,244.51 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 2,2528.71 9,067.70 9,07.70 9, 575.71 575.00 575.00 575.00 522.70 522.70 522.70 522.70 522.70 434.94 433.16 344.94 433.16 344.94 344.94 344.54 255.94 334.54 255.94 334.54 255.94 334.54 (1,127.03) (1,144.56) (91.58) (1,142.50) (1,142.50) (1,142.51) (2,285.074) (2,385.074) (2,38 Dollar Increase (E=D-C) % Increase (F = E+C) 1113.19% 1109.89% 1109.89% 135.17% 35.77% 31.76% 31.76% 31.76% 31.76% 31.76% 11.61% 12.99% 17.15% 17.15% 12.99% 12.09% -2.06% -2.06% -12.86% -13.61% -13.61% -13.61% -13.61% -13.61% -13.61% -13.61% Annualized Fuel Cost Additions to Bill (G) 0.00 9.30 11.96 23.26 23.26 23.26 23.90 36.55 446.51 446.51 446.51 446.51 446.51 446.51 446.51 446.51 109.64 109.64 146.19 69.77 89.77 89.77 146.52 239.22 239.22 239.22 239.22 146.19 146.19 146.19 146.55 1 Current Total Bill Including Fuel (H = C+G) Proposed Total Bill Including Fuel 1,003,84 1,111,83 1,130,19 1,395,85 1,395,85 1,395,85 1,395,85 1,395,85 1,964,48 2,192,43 2,297,196 2,377,196 2,277,196 2,277,196 2,277,196 2,277,196 2,277,196 2,277,196 2,277,196 2,277,196 2,377,196 2,192,85 11,146,82 11,146, (I= D+G) % Change (J=E+H) 111.15% 107.25% 63.34% 59.88% 58.76% 32.60% -1.93% -10.72% -10.03% -9.44% -13.84% -12.89% -12.89% -15.00% -15.00% -15.74% -15.74% 30,43% 28,51% 18,92% 17,50% 11,25% 11,25% 11,25% 11,25% -1,92% -1,92%

POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s):

Schedule E-5 Page 93 of 100 Wilness Responsible: T. Zellna / A. Moore

Date
Prepared:
February
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25 4001 GS-4 Primary 9<u>3</u>-4 Subtransmission Code Level of Demand Σ 3,000 5,000 5,000 8,000 8,000 8,000 8,000 20,000 20,000 1,220,000 1,500,000 2,500,000 2,500,000 3,200,000 3,200,000 4,300,000 4,300,000 4,300,000 10,000,000 Level of (B) 52,356,98 57,449,35 85,591,17 89,834,81 94,078,45 135,442,46 135,442,46 142,222,11 334,847,80 331,822,16 331,822,16 331,822,16 331,822,16 331,822,16 Current Bill (C) Proposed BIII (D) 48,410.30 53,349,82 53,349,82 78,809,136 82,925,03 87,040,91 124,407,44 124,407,44 124,407,44 137,578,28 306,800,60 3339,727,60 339,727,60 (3,946.66) (4,023.34) (4,100.00) (6,782.02) (6,999.78) (71.037.55) (71.037.55) (71.037.55) (71.433.86) (71.433.86) (71.443.86) (28,047.00) 2,394.10 2,240.78 5,155.85 5,028.09 4,5028.09 2,396.47 8,396.47 8,396.47 20,346.89 7,989.63 21,368.97 20,346.89 7,989.63 7,989.63 7,989.63 20,346.89 20,346.89 53,796.21 52,517.57 51,234.60 53,796.21 134,666.72 134,666.72 Dollar Increase (E=D-C) % Increase (F = E+C) -7.54% -7.33% -7.48% -7.48% -8.15% -8.12% -8.38% -8.12% 5.16% 5.482% 5.41% 5.26% 5.26% 5.26% 5.26% 5.26% 5.26% 5.26% 5.26% 5.20% 5.26% Annualized Fuel Cost Additions to Bill 29,216.64 36,520.80 43,824.90 60,868.00 73,911.04 97,388.00 116,866.56 116,866.56 116,866.56 243,4772.60 243,4772.60 243,4772.60 243,4772.60 243,4772.00 282,166.00 1,521,760.00 1,521,760.00 28,514,64 35,643,30 42,771,96 47,524,40 59,405,50 71,286,60 71,286,60 714,058,56 114,058,5610,056,56 114,056, G 87,281,45 97,012,02 106,742,58 144,002,46 144,002,46 178,437,68 229,084,01 255,022,40 229,084,01 255,022,40 569,400,56 699,180,56 699,180,56 699,180,56 699,180,56 699,180,56 1,744,577,57 3,952,703,95 3,952,703,95 Current Total Bill Including Fuel (H = C+G) 80,871.62 90,546.47 100,221.31 133,121.57 149,240.35 211,481.50 237,281.00 237,281.00 237,281.00 237,281.00 524,946.20 548,444.50 558,444.51 558,444.51 76,924,94 86,523,12 96,523,12 126,335,56 142,330,63 158,327,51 220,446,46 2251,636,81 496,808,20 560,868,20 560,868,20 560,868,20 90,275.55 99,529.46 109,523.46 149,158.33 185,248,17 185,248,17 185,248,17 237,482,48 263,226,23 266,779,12 265,138,48 719,262,49 265,138,49 719,47 4,474,020,71 1,634,819,11 1,795,817,50 3,625,417,50 4,425,516,517,50 5,655,417,505,417,50 5,655,417,505 Proposed Total Bill Including Fuel (|= D+G) . % Change (J=E+H) -5.09% -5.09% -5.22% -5.34% -5.34% -5.34% -5.38% 3.43% 2.661% 3.588% 3.14% 3.14% 3.14% 3.14% 3.14% 3.14% 3.16% 3.16% 3.28% 3.28% 3.28% 3.28%

POST-MERGER OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilifies)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original__Updated__Revised Work Paper Reference No(s):

Schedule E-5 Page 94 of 100 Witness Responsible: T. Zelina / A. Moore

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-382-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

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Schedule E-5 Page 95 of 100 Witness Responsible: T. Zelina / A. Moore

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88882838	15542327290075	01 b (2) N -	Line No.
	Transmission	GS-4 Subtransmission	Rate Code
20,000 50,000 50,000 125,000 125,000	20,000 8,0000 8,000 8,000 8,000 8,0000 8,00000 8,0000 8,0000 8,0000 8,00000000	50.000 50.000 125.000 125.000	Level of Demand (A)
10,000,000 12,000,000 25,000,000 30,000 50,000,000 62,500,000 75,000,000	1,200,000 1,500,000 2,500,000 2,500,000 3,000,000 3,200,000 4,500,000 8,500,000	25,000,000 30,000,000 50,000,000 62,500,000 75,000,000	(B)
331,488,17 348,376,65 782,7860,49 824,781,89 867,002,89 1,952,462,51 2,058,015,50 2,163,568,50	49,421,90 51,965,17 80,6192,84 84,841,40 89,063,52 127,415,36 140,926,15 140,926,15 314,588,69	875,796.85 918,233,25 2,079,642,56 2,185,733,57 2,291,824,56	Current Bill (C)
319,281,77 335,859,19 755,042,84 793,986,40 834,929,96 1,878,389,10 1,980,747,99 2,083,106,88	47,825,86 50,282,47 52,739,09 77,235,09 81,929,60 86,023,80 132,948,94 132,950,86 302,904,34	803.942.24 845.101.00 1,902,740.67 2,005,637.57 2,108,534.48	Proposed BIII (D)
(12,206,40) (12,717,46) (29,517,85) (30,796,29) (32,072,93) (74,073,41) (77,267,52) (80,461,62)	(1,598,04) (1,572,70) (2,774,19) (2,774,19) (2,2911,96) (2,2911,96) (2,2911,96) (2,2911,96) (2,2911,96) (3,039,72) (4,566,42) (4,975,27) (4,975,27)	(71,854,61) (73,132,25) (176,901,89) (180,085,98) (183,290,10)	Dollar Increase (E=D-C)
43,68% 43,75% 43,75% 43,75% 43,75% 43,75%	-3.223% -3.223% -3.4455% -3.4455% -3.556% -3.72%	-8,20% -7,86% -8,51% -8,24%	% Increase (F = E+C)
237,622.00 256,146.40 425,244.00 594,055.00 712,866.00 7,188,110.00 1,188,117.60 1,782,165.00	28,514,64 35,643,30 42,771,96 47,524,40 59,405,60 71,286,60 71,286,60 114,058,50 114,058,50	594,055.00 712,866.00 1,485,137.50 1,782,165.00	Annualized Fuel Cost Additions to Bill (G)
569,110.17 633,523,05 1,257,804.43 1,418,839,69 1,579,868,89 3,140,572.51 3,543,153,00 3,945,733,50	77,936.54 87,598.47 97,260.40 128,143.98 144,246.90 160,350.12 2203,454.40 2203,454.40 2203,454.40 2203,454.40 2203,454.40 2203,454.219 564,984.29	1,469,851.85 1,631,099.25 3,267,752.56 3,670,871,07 4,073,989.58	Current Total Bill Including Fuel (H = C+(G)
556,903.77 620,806.59 1,228,286.84 1,368,041.40 1,547,795.06 3,068,499.10 3,465,885.49 3,865,271,88	76,340,50 85,925,77 95,511,05 125,359,49 141,334,94 157,310,40 157,310,40 2248,887,98 2248,887,98 2248,887,98	1,397,997.24 1,557,967.00 3,090,850.67 3,490,776.07 3,890,699.48	Proposed Total Bill Including Fuel (J= D+G)
レーン して して して して して して して して して して して して して	~2.05% -1.91% -2.12% -2.12% -2.02% -1.90% -2.24% -2.28% -2.28%	4.89% -5.41% -4.91% -4.50%	% Change (J=E+H)

Date Prepared: February 28, 2011

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Dets: 3 MOS Actual & 9 MOS Estimated Type of Filing: ▶Original_Updated_Revised Work Paper Reference No(s):

Schedule E-5 Page 96 of 100 Witness Responsible: T. Zelima / A. Moore

S S S S 5		No. R
35 G	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Rate Level of Code Demand (A)
15.000 30,000	60,000 60,000 60,000 60,000 15,000	Level of Usage (B)
325.28 641.21	30,43 51,66 76,21 183,27 222,87 222,87 222,87 1,075,84 815,45 815,45 815,45 815,45 815,45 815,45 815,45 815,45 816,55 816,55 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,143,13 1,151,166 72,74 2,166,72 2,166,72 2,166,72 2,166,72	Current BN (C)
612.18 1.423.22	187.37 202.54 221.51 296.151 296.151 296.151 1268.15 1469.37 524.15 511.55 711.55 711.55 711.55 711.55 711.55 711.55 711.55 711.55 711.55 711.55 71.59 2.255.47 2.255.47 2.255.47 2.255.47	Proposed BIN (D)
286.92 782.02	156,94 156,94 150,88 113,331 113,331 113,331 113,331 113,331 (122,21,2 123,23 113,23 114,4,52 1123,75 1123,75 114,4,52 114,4,52 114,4,52 114,4,52 114,4,52 1152,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 1155,75 115	Dollar Increasa (E=D-C)
88.21% 121.96%	515.77% 282.204% 61.24% 61.24% 34.35% -3.25% -3.25% -13.43% -5.21% -5.21% 26.59% 14.83% -5.21% 26.59% 14.83% -5.21% -5.21% -5.21% -5.21% -5.21% -5.21% -5.21% -5.21%	% Increase (F = E+C)
390.96 781.92	3.02 15.11 30.24 135.15 151.15 151.15 151.26 151.26 151.26 151.26 151.26 151.26 151.26 151.26 151.26 151.26 151.26 1.208.51 1.208.51 1.208.51	Annualized Fuel Cost Additions to Bill (G)
716.22	33,45 66,77 108,452 274,852 398,856 1,268,06 1,268,06 1,268,06 1,268,06 1,268,06 1,268,06 1,247,36 2,158,79 1,905,07 3,567,28 3,975,10 3,567,26 3,897,91 5,543,55	Current Total Bill Including Fuet (H = C+G)
1,003.14 2,205.15	190.39 217.65 590.65 1,199.80 1,199.86 1,536.64 1,536.64 1,352.14 1,199.85 1,394.31 1,394.31 1,732.78 2,1298.44 1,394.31 1,394.31 2,739.76 3,411.09 3,411.09 3,411.09 3,411.04 3,411.053,411.05 3,411.05	Proposed Total Bill Including Fusi {I=D+G}
40.06% 54.95%	-2.289% -2.289% 41.18% -2.289% -2.284% -2.284% -2.284% -2.284% -2.284% -2.29% -2.29% -3.303% -2.29% -3.41% -3.241% -3.241% -3.241% -4.22% -4.22% -3.245% -3.26% -3.27% -3.26% -3.26% -3.26% -3.27% -3.26% -3.26% -3.27% -3.26% -3.27% -3.26% -3.27% -3.26% -3.27% -3.26% -3.27% -3.26% -3.27% -3.26% -3.	% Change (J=E+H)

Date Prepared: February 28, 2011

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-362-EL-AIR Typical Bill Comparison (Electric and Gas Utilities)

Deta: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated___Revised Work Paper Reference No(s):

Schedule E-5 Page 97 of 100 Wilness Responsible: T. Zelina / A. Moore

33 34 38 28 28 ¹ 33 32 34 38 28 28	38528525	5282388788788	<u>сию4вого</u> од	Line No.
50,000 sq it	30,000 sq ft	10,000 sq ft 20,000 sq ft	SS 1,000 sq ft 5.000 sq ft	Code
3 2 2 3 4 8 8 8 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8	55555555 55555555555555555555555555555	5555 6668888 5555	222 100 200	Level of Demand (A)
15,000 30,000 60,000 60,000 80,000	10,000 15,000 20,000 20,000 22,000 30,000	2,000 6,000 5,000 10,000 15,000 15,000 20,000	1,500 3,000 4,500 4,000 4,000	Level of Usage (B)
921.87 1,781.86 2,355.18 3,501.83 3,501.83 4,648.48	625.95 915.42 1,202.08 1,202.08 1,488.74 1,775.40	155.28 272.14 367.92 330.03 474.76 619.49 912.19 912.19 1,198.85	124.27 211.34 298.18 154.74 270.53 386.31	Current Bill
1.247.50 1.894.19 2.884.95 3,747.24 4.306.90 5,169.16	742.84 961.21 1,176.77 1,456.00 1,672.17 1,887.73	218 03 308 45 308 45 571 24 880 42 957 98 957 98	138.16 203.90 269.41 217.49 304.83 392.18	Proposed Bill (D)
325.62 112.33 529.79 245.41 805.06 520.68	116.89 45.79 (25.30) 254.53 183.43 112.33	62.75 5.87 132.87 132.87 96.47 60.92 116.89 45.79 (25.30)	13.89 (7.44) (28.77) 82.75 34.31 5.87	Dollar Increase (E=D-C)
35.32% 6.30% 22.49% 7.01% 22.99% 11 20%	18.67% 5.00% -2.10% 21.17% 12.32% 6.33%	40.41% 12.61% 40.00% 9.83% 18.77% 5.02% -2.11%	11.18% -3.52% -9.65% 40.55% 12.68% 1.52%	% Increase (F = E+C)
436.57 873.14 1,164.19 1,746.29 1,746.29 2,328.38	291.05 436.57 582.10 582.10 727.62 873.14	58.21 176.62 1716.62 218.29 291.05 291.05 435.57 435.57 582.10	43.66 87.31 130.97 58.21 116.42 174.63	Annualized Fuel Coat Additions to Bill (G)
1,358.45 2,855.00 3,519.38 5,248.12 5,248.12 6,976.87	917.00 1,351.99 1,784.17 1,784.17 2,216.36 2,648.55	213.49 388.56 522.555 633.05 910.64 910.64 913.77 1,348.76 1,780.94	187.93 298.66 428.15 212.95 368.94 560.94	Current Total Bill Including Fuel (H = C+G)
1,684.07 2,787.34 4,049.17 5,493.53 6,053.19 7,497.54	1,033.88 1,367.78 1,766.87 2,036.70 2,399.79 2,389.78	276.24 422.5 588.42 607.58 7189.52 971.47 1,384.55 1,255.54	181.82 291.22 400.39 275.70 421.25 566.81	Proposed Total Bill Including Fuel (I= D+G)
23.97% 4.23% 15.05% 15.34% 7.46%	12.75% 3.39% 14.27% 8.28% 4.24%	-1.2.79% -1.2.83% -1.2.92% -1.2.79% -1.4.2%	8.27% -2.49% -5.70% 29.47% 8.87% 8.87%	% Change (J=E+H)

Date Prepared: February 28, 2011

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilitios)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s):

Schedule E-5 Page 98 of 100 Witness Responsible: T. Zelina / A. Moore

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						ę	SS 100,000 sq ft	Rais Code
Post Top-MV 7,000 Lumen	MH Floodligh 17,000 Lumen 29,000 Lumen	HPS Floodlight 22,000 Lumen 50,000 Lumen	MV Floodiight 20,000 Lumen 50,000 Lumen	Incandescent 2,500 Lumen 4,000 Lumen	High Pressure Sodium 9,000 Lumen 22,000 Lumen	Lamp Size Mercury Vepor 7,000 Lumen 20,000 Lumen	₩ 250 400	Level of Demand (A)
ซ	100 158	84 167	158 378	88 G.	40 84	72 168	60,000 80,000 80,000 120,000	Level of Usage (B)
12.58	12.44 13.05	13,88 15,68	19.51 28.78	8.55 9.53	9.04 12.03	11.10 16.56	3,517.98 4,664.63 4,864.63 6,957.93	Current Bill (C)
16,98	16.35 17.66	17.83 20.08	23.61 33.47	11.78 13.01	11.88 15.99	13.64 19.81	4,043.22 4, 905 .48 5,744.96 7,46 9 .49	Proposed Bill
4.40	4 .51	3.95 4.39	4.10 4.69	3.Z3 3.46	2.83 3.96	2.54 3.25	525.24 240.85 1.080.33 511.56	Dollar Increase (E=D-C)
34,98%	31.48% 35.33%	28.47% 28.02%	21.04% 16.30%	37.77% 30.51%	31.35% 32.94%	22.85% 19.84%	14.93% 5.16% 23.18% 7.35%	% Increase (F = E+C)
3.20	4,45 7.03	3,73 7,43	7.03 16.81	2,80 4,36	1.78 3.73	3.20 7.03	1,746.29 2,328.38 2,328.38 3,492.58	Annwalizad Fuel Cost Additions to Bill (G)
15.78	16.88 20.08	17.61 23.11	26.53 45.58	11.36 13.89	10.82 15.77	14.30 23.58	8,264,27 6,993,01 6,993,01 10,450,50	Current Total Bill Including Fuel (H = C+G)
20.19	20.80 24.69	21.57 27.50	30.64 50.28	14.59 17.37	13.66 19.73	16.84 26.83	5,789,50 7,233,86 8,073,35 10,962,06	Proposed Total Bill Including Fuet (1= D+G)
27.89%	23,1 9% 22,97%	22.44% 19.02%	15. 47% 10.29%	28.45% 25.05%	26.20% 25.14%	17.73% 13.79%	9.98% 3.44% 15.45% 4.90%	% Change (J=E+H)

Date Prepared: February 28, 2011

Date Prepared: February 28, 2011

POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Comparison (Electric and Gas Utilitios)

Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: DOriginal Updated Revised Work Paper Reference No(s):

Schedule E-5 Page 99 of 100 Wäness Responsible: T. Zelina / A. Moore

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																										sr						þ	Rate Code
22.000 lumen high pressure sodium (post 1998	16,000 lumen high pressure sodium (post 1998	9,000 iumen high pressure sodium (post 1998)	50,000 lumen high pressure sodium	22,000 lumen high pressure sodium	16,000 lumen high pressure sodium	9,000 tumen high pressure sodium	50,000 tumen mercury vapor	20,000 lumen mercury vapor	11,000 lumen mercury vapor	7,000 lumen mercury vapor	On Metal Pole:		50,000 lumen high pressure sodium (post 1988	22,000 lumen high pressure sodium (post 1988	16,000 lumen high pressure sodium (post 1988	9,000 lumen high pressure sodium (post 1988)	50,000 lumen high pressure sodium	22,000 lumen high pressure sodium	18.000 lumen high pressure sodium	9,000 lumen high pressure sodium	50,000 lumen mercury vapor	20,000 jumen mercury vapor	11,000 lumen mercury vapor	7,000 lumen mercury vapor	On Wood Pole			Underground circuit per 25 feet over 30 feet	Facilities Charges;	9,000 Lumen	Post Top-HPS		Level of Demand (A)
84	50	40	167	84	59	8	87C	158	100	72	ļ		167	84	59	ð	167	84	59	40	378	158	100	72				0		40			Level of Usage (B)
45.07	43.52	42,42	20.80	17.69	16.14	15.22	20,19	12.44	10.44	9.13	,		22.08	16.33	14,90	12.12	12.50	9.36	7.84	6.87	15,31	8.61	7.53	6.06				0.63		15.90			Current BIN (C)
44.73	43.27	42.24	21.98	19,10	17.54	16.67	21.00	13.34	CR. 1.	10.04			23,44	17.91	16.48	13.76	12.72	9.81	8.29	7,38	15.33	9.00	7.88	6.39				1.02		21,41	2		Proposed Bill (D)
(0.34)	(0.25)	(0.18)	1.17	1,41	1,40	1.45	0.81	19.U	2.9	16'0			1.36	1.58	1.58	1.64	0.22	0.45	0.45	0.50	0.02	0.19	0.35	0.33				0.39		5.51	1		DoMar Increase (E=D-C)
-0.75%	-0.57%	-0.43%	5.64%	%R617	8.66%	9.56%	3.99%	1.51%	9.20%	%967B			6.14%	869%	10.60%	13.50%	1.78%	4.80%	5.71%	7.33%	0.10%	2.11%	4,60%	5.48%				61.58%		34.66%			% Increase (F = E+C)
3,20	2.25	1.53	6.37	3.20	2.20	2	加加		5.02	5/2			6,37	3.20	2.25	1.53	6.37	3.20	2.25	1.53	14.42	6,03	3.82	2.75						1.78			Annualized Fuel Cost Additions to Bill (3)
48.27	45.77	43.95	27.17	20.89	10.40	C/ 01	20.65	10.40	19,70	11.88			28,45	19.53	17.15	13.65	18.87	12.57	10.09	8,40	29.74	14.84	11.34	8.81				0.63		17.08			Current Total Bili Including Fuel (H = C+G)
47.93	45.53	43./6	20.02	24.01	87.61 8.761	18.20	30.42	05 AD	10.70	16.78	17 70		29.81	21.11	18.73	15.28	60.61	13.02	10.54	06'8	29.75	20.01	11.69	9.14				1.02		20.18			Proposed Total Bill Including Fuel (I=D+G)
-0.70%	-0.54%	-0.41%	4.32%	0.70%		2.08%	2.33%	1.32.10	1 0 0 1 10	10700 A			4.76%	8.10%	9.21%	%88.LL	1.18%	3.3/%	4.43%	6.00%	0.05%	0,0271	3.05%	5.77%				61.58%		31.17%	24 4 76/		% Change (J=E+H)

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Data: 3 MOS Actual & 9 MOS Estimated Type of Filing: ► Original___Updated___Revised Work Paper Reference No(s):

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POST-MERGER OHIO POWER COMPANY - OHIO POWER RATE AREA Case No. 11-352-EL-AIR Typical Bill Compatison (Electric and Gas Utilities)

Schedule E-5 Page 100 of 100 Witness Responsible: T. Zelina / A. Moore

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26 35 3	* 7 8 8 4 8		Line No.
		မ	Rate Code
Facilities Charges: Receptacle Charge	Post Top Unit: 7.000 lumen mercury vapor 9.000 lumen high pressure sodium 9.000 lumen high pressure sodium (post 1988)	50,000 lumen high pressure sodium (post 1986 Multiple Lamps on Metel Pole: 20,000 lumen mercury vapor 9,000 lumen high pressure sodium 16,000 lumen high pressure sodium 50,000 lumen high pressure sodium 9,000 lumen high pressure sodium (post 1998) 16,000 lumen high pressure sodium (post 1998) 22,000 lumen high pressure sodium (post 1998) 22,000 lumen high pressure sodium (post 1998)	Level of Demand (A)
o	40 72	167 184 184 187 187	Level of Usage (B)
2.10	9.05 12.94 16.52	48.27 10.53 11.05 13.49 13.49 26.78 26.78 20.55	Current Bill (C)
2,41	9.95 12.78 18.02	47,64 11,12 12,90 14,43 24,64 24,64 25,55 27,02 27,02	Proposed BNN (D)
0.31	0.90 (0.15) 1.50	(0.53) 0.58 0.92 0.94 (0.16) (0.23) (0.18)	Dollar Increase (E=D-C)
14,50%	9.92% -1.19% 9.08%	-1.31% 5.52% 8.89% 7.71% 6.94% 4.20% -0.66% -0.80%	% Increase (F = E+C)
ı	2.75 1.53 1.53	6.37 6.32 6.32 6.32 6.37 6.37	Annualitzed Fuel Cost Additions to Bill (G)
2.10	11.80 14.46 18.04	54.65 16.56 14.23 26.30 26.33 30.55 36.92	Current To tal Bill Including Fuel (H = C+G)
2.41	12.69 14.31 19.54	54.01 17.14 13.52 15.15 25.70 26.74 30.22 26.74	Proposed Tota: Bill Including Fuel (I= D+C)
14.50%	7.51% -1.06% 8.31%		% Change {J=E+H}

Date Prepared: February 28, 2011

EXHIBIT NO.

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of () Columbus Southern Power Company and () Ohio Power Company, Individually and, if () Their Proposed Merger is Approved, as a () Merged Company (collectively, AEP Ohio) () for an Increase in Electric Distribution Rates ()

In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Tariff Approval

In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Approval to Change Accounting Methods Case No. 11-351-EL-AIR Case No. 11-352-EL-AIR

Case No. 11-353-EL-ATA Case No. 11-354-EL-ATA

Case No. 11-356-EL-AAM Case No. 11-358-EL-AAM

STANDARD FILING REQUIREMENTS

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VOLUME 5

S-1 Five Year Capital Budget

S-2 Projected Test Years

S.3 Proposed Legal Notice

S-4.1 Executive Summary

Filed February 28th, 2011

AEP OHIO COMPANIES COLUMBUS SOUTHERN POWER COMPANY OHIO POWER COMPANY 11-351-EL-AIR 11-352-EL-AIR

SUPPLEMENTAL FILING REQUIREMENTS

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SCHEDULE S-1:

FIVE YEAR DISTRIBUTION CAPITAL FORECAST

COLUMBUS SOUTHERN POWER COMPANY Case No. 11-351-EL-AIR Most Recent Five-Year 2011-2015 2011-2015 (\$000)

Case No. 11-351-EL-AIR Type of Filing: ► Original Updated Revised Work Paper Reference No(s):

Schedule S-1 Page 1 of 1 Witness Responsible: O. J. Sever

Project Major Inductionof Const.2011201220132014Total Distribution(B)(C)(0)(H)(D)(J)(J)Total Distribution(B)(C)(G)(H)(D)(J)(J)Total Distribution(B)(B)(B)(B)(B)(B)(B)(B)Total Distribution(B)(B)(B)(B)(B)(B)(B)(B)(B)Projects Over 5% of Annual Construction(B)(C) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
(C) (3) (H) (I) (J) Cash Construction 83.596 73.468 74,261 75.015 AFUDC 787 76 73.468 74,261 75.015 AFUDC 78.7 75.102 74,261 75.015 3.421 AFUDC 83.596 73.468 74,261 5.421 5.421 AFUDC 5 75,102 5 76,219 5 76,435 atruction Budget: eridSMART6 411/2009 1 1 5 76,435 5 411/2009 12/31/2013 1 14,466 2,591 709 0 20,012 17.766 2,591 709 0 0	No.	Project / Major Property Grouping	of Const. Cost	2011	2012	2013	2014	2015
Cash Construction 83,596 73,468 74,261 76,015 76,015 AFUDC AFUDC 38,596 73,468 74,261 76,015 3,421 AFUDC 367 1,634 1,634 1,956 3,421 3,421 Indicident: 5 84,363 5 75,102 5 76,219 5 78,435 Indiction Budget: 9 1,634 7,6,219 5 76,219 5 78,435 1 Indiction Budget: 11/12009 1		(8)	(C)	(6)	(H)	((r)	(K)
ArrUCC 767 1,634 1,534 3,421		Total Distribution	Cash Construction	83,596 	73,468	74,261	75,015	76,5
struction Buddaet: gridSMART® 4/1/2009 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 29,902 17,768			AF UDC Total with AFUDC					\$ 81,163
gridSIMART® 4/1/2009 12/31/2013 12/31/2013 14,466 2,591 709 29,902 17,768		Projects Over 5% of Annual Construct	tion Budget:	•				. •
4/1/2009 12/31/2013 tton: 14,466 2,591 709 29,902 17,768		Project: gridSMART®	gridSMART®			-		
12/31/2013 ction: 14,466 2,591 709 29,902 17,768		Date Project Started:	4/1/2009					
ction: 14,466 2,591 709 29,902 17,768		Estimated Completion Date:	12/31/2013				·	
		Estimated Cost of Cash Construction:		14,466	2,591	206	0	
		Accumulated Costs ² ;			×			
		Costs from 4/1/2009-12/31/2010 Cost to Completion 2011-2013	29,902 17,766			·		

 $^{\rm 2}$ Does not inloude General or Intangible Ptant allocated to Distribution. $^{\rm 2}$ Values are net of DOE funds received and DOE billings.

OHIO POWER COMPANY Case No. 11-352-EL-AIR Most Recent Five-Year Capital Expenditures Budget 2011-2015 (\$000)

Schedule S-1 Page 1 of 1 Witness Responsible: O. J. Sever

		Category	-	Bud	Budgeted Capital Expenditures	onditures		
Line No.	Project / Major Property Grouping	of Const. Cost	2011	2012	2013	2014		2015
(¥)	(8)	(C)	(a)	(E)	(F)	(<u></u> 9)		(H)
ر ا	Note: There are no pro	Note: There are no projects that are greater than or equal to 5% of the annual construction budget for the Company for years 2011 - 2015	or equal to 5% of t	the annual construction	on budget for the Co	mpany for yea	rs 2011 - 2015	
N 09	Total Distribution ¹	Cash Construction	80,782	81,211	86,331	8	88,592	90,138
4		AFUDC	1,279	765	1,068	-	1,855	2,638
ß		Total with AFUDC	\$ 82,060	\$ 81,976	\$ 87,399	\$ \$	90,448 \$	92,776

¹ Does not intcude General or Intangible Plant allocated to Distribution.

AEP OHIO COMPANIES COLUMBUS SOUTHERN POWER COMPANY OHIO POWER COMPANY 11-351-EL-AIR 11-352-EL-AIR

SUPPLEMENTAL FILING REQUIREMENTS

SCHEDULE S-2:

FIVE YEAR DISTRIBUTION FINANCIAL FORECAST

COLUMBUS SOUTHERN POWER COMPANY Case No. 11-351-EL-AIR Projected Distribution Income Statement¹ 2011-2015 (\$000)

Case No. 11-351-EL-AIR Type of Filing: ► Original___ Work Paper Reference No(\$): _Updated___Revised Schedule S-2 Page 1 of 4 Witness Responsible: O. J. Sever

Line No.	Description		2011	2012	2013	2014	2015
(A)	(B)		(C)	(D)	(E)	(F)	(G)
1	OPERATING REVENUES						
2	Revenues	\$	400,900 \$	417.501 \$	457,133 \$	462,163 \$	470,526
3	Rider Revenues		172,740	173,183	176,313	179,560	182,663
4	Total Revenue		573,640	590.684	633,446	641,723	653,189
5							
6	OPERATING EXPENSES			· ·	-		
7	O8M		148.060	152.140	157,164	162,500	167.596
8	Rider O&M ²		103.301	106.454	109,701	113,046	116.492
9	Total O&M		251,360	258,593	266,865	275,546	264.068
10	Depreciation / Amortization		72,782	72.222	102,909	104,551	106.247
11	Taxes Other Than Income Taxes		77,264	80,976	83,247	85,668	88,139
12	Rider Taxes Other Than Income Taxes ²		69.439	66,729	66.612	66,514	66.171
13	Total Taxes Other Than Income Taxes		146,703	147,706	149,859	152,181	154.310
14	Current Income Taxes		30,778	32,724	31,261	31,059	31,736
15	Deferred Income Taxes		(2,961)	(2,050)	(76)	(900)	(1,708
16	ITC Amortization		(462)	(286)	(127)	(99)	(16
17	Total Operating Expenses		498.201	508.910	550,692	562,339	574.657
18			·			•	
19	Net Operating Income		75,439	81,773	82,754	79,384	78,631
20			10,100	01,110	02,101	10,001	.0,001
21	Other Income and Deductions		1,644	2,972	2.005	3.208	3,918
22	Net Interest Charges		23,317	24,521	24,711	23.277	22,748
23	· · · · · · · · · · · · · · · · · · ·						
24	Net Income		53,766	60,224	60.048	59,315	59,702
25			00,100	00,224		00,010	00,101
26	(LESS) PREFERRED DIVIDEND						
						•	
27	Assellable for Common						
28	Available for Common	<u> </u>	53,766 \$	60,224 \$	60,048 \$	59,315 \$	59,702

¹ This income Statement represents a projection of revenues necessary to support the required rate of return. ² These items represent significant revenues or costs associated with riders that will be treated in a separate proceeding.

COLUMBUS SOUTHERN POWER COMPANY Case No. 11-351-EL-AIR **Projected Distribution Balance Sheet Statement** At End of Years: 2011-2015 (\$000)

Case No. 11-351-EL-AIR Type of Filing: Driginal___Updated___Revised Work Paper Reference No(s):

Schedule S-2 Page 2 of 4 Witness Responsible: O. J. Sever

Line				-	_		
No.	Description		2011	2012	2013	2014	2015
(A)	(8)		(C)	(D)	(E)	(F)	(G)
1							
2	Utility Plant	\$	1,957,660 \$	2.044,700 \$	2,083,105	\$ 2,123,391 \$	2,164,488
3	Construction Work in Progress		54,148	26,283	46,132	68,171	92,186
4	Total Utility Plant		2.011.808	2.070.984	2,129,237	2,191,562	2,256,674
5	(Less) Accumulated Depreciation		846,757	884,923	922,037	961,828	1,003,165
6	Net Utility Plant		1,165,051	1,186,061	1,207,200	1,229,733	1,253,510
7		—	1,100,001	1,100,001	1,201,200	1,220,100	1,200,010
8	CURRENT ASSETS						•
9	Cash		1,694	1,694	1,694	1,694	1,694
10	Receivables		32,168	32,168	32,168	32,168	32,168
11	Inventory *		7,964	7,964	7,964	7,964	7,964
12	Other Current Assets		104,278	104,278	104,278	1 04,278	104,278
13	Total Current Assets		146,103	146,103	146,103	146, <mark>103</mark>	146,103
14							
15	OTHER PROPERTY & INVESTMENTS		5,957	5.957	5,957	5,957	5,957
16 [°]							
17	DEFERRED DEBITS						
18	Regulatory Assets		266,771	365.611	335,240	304, 870	274.499
19	Other Non-Gurrent Assets		60.226	59.875	59,611	59,387	59,181
20	Total Deferred Debits		326,997	425.486	394,851	364,256	333,680
21		. —		· · · ·			
22	Total Assets and Other Debits		1,644,108	1,763,606	1,754,111	1,746,049	1,739,249
23							
24	PROPRIETARY CAPITAL						^
25	<i>,</i>						
26	Preferred Stock		•	-	-	-	-
27 .	Total Common Equity		305,626	345,847	386,613	427,818	469,858
28	Retained Earnings		176,583	194,280	151,933	104,155	65,584
29	Total Proprietary Capital		482,209	540,127	538,545	531,973	535,442
30	ι,						
31	LONG TERM DEBT		447,130	397,162	313,882	283,153	283,153
32	· · ·						
33	OTHER NONCURRENT LIABILITIES						
. 34	Deferred Income Taxes		224,497	222,447	222,371	221,471	219,763
35	ITC Liability/Deferred Tax		535	250	123	24	6
36	Other Noncurrent Liabilities		88,764	68,764		88,764	88,764
37	Total Noncurrent Liabilities		313,796	311,461	311,258	310,259	308,635
38						`	
39							
40	Accounts Payable		212,319	212,319	212,319	212,319	212,319
41	Other Current Liabilities		188,654	302,538	378,107	408,346	399,800
42	Total Current Liabilities		400,973	514,856	590,426	620,664	612,119
43 44	Total Liabilities and Proprietary Capital	\$	1,844,108 \$	1.763.606 \$	1,754,111	\$ 1,746,049 \$	1,739,249

COLUMBUS SOUTHERN POWER COMPANY Case No. 11-351-EL-AIR Projected Distribution Cash Flow Summary 2011-2015 (\$000)

Case No. 11-351-EL-AIR Type of Filing: ►Original__Updated___Revised Work Paper Reference No(s):

Schedule S-2 Page 3 of 4 Witness Responsible: O. J. Sever

Line No.	Description	2	011	ĸ	2012		2013		2014		2015
(Å)	(B)		(C)	_	(D)		(E)		(F)		(G)
1	Cash Flows From Operating Activities										
2	Net Income (after preferred slock dividend)	\$	53. 766	s	60.224	\$	60,048	\$	59,315	\$	59.702
3	Depreciation & Amortization	•	72,782	-	72,222		102,909	-	104,551	•	106,247
4	Regulatory Asset		0		(98,840)		0		0		0
5	Deferred income Tax		(2,961)		(2,050)		(76)		(900)		(1,708
6	Deferred Investment Tax Credits		(462)		(286)		(127)		(99)		(16
7	AFUDC Equity		(1.644)		(2,972)		(2.005)		(3.208)		(3.918
8	Forecast Net Removal Expenditures		(8,900)		(9,731)		(10,537)		(10,841)		(10.613
9	Other Current Assets and Liabilities (net)		13,247		113,883		75,570		30,238		(8,545
10	Net Cash Flow From Operating Activities	1	25,829		132,452		225,782		179,057		141,148
11			_								
12	Cash Flows From Investing Activities										
13	Capital Expenditures - Property & Construction	4	(88,840)		(78,864)		(79,933)		(80,795)		(82,433
14	Allowance for Borrowed Funds Used During Constr-Cr.		(877)		(1.314)		(939)		(1,646)		(2,483
15	Net Cash Flow (Used) by Investing Activities		(89,717)		(80,177)		(80,872)		(82,441)		(84,916
16							<u>, , , , , , , , , , , , , , , , , , , </u>				<u></u>
17	Cash Flows From Financing Activities										
18	Proceeds from Issuance of :										
19	Long-Term Debt		0		0		0		0		o
20	Preferred Stock		õ		ō		õ		Õ		Ő
21	Payment for Retirement of:		~		Ť		Ŭ		•		
22	Long-Term Debt		0		(49,968)		(83.280)		(30,729)		C
23	Preferred Stock		ő		(-3,300)		(00,200)		(30,723)		. 0
24	Equity infusions between parent and subs		(36,112)		(2,306)		(61,629)		(65,887)		(56,232
25	Net Cash Flow From Financing Activities		(36,112)		(52,275)	_	(144.910)		(96,616)		(56,232
26	The second for the term of the second s		00,712)		104,210]	_	(1+4,310)		(00,010)		100,202
27	INC(DEC) in CASH & CASH EQUIVALENTS	_	0		0		0	-	0		

COLUMBUS SOUTHERN POWER COMPANY Case No. 11-351-EL-AIR Forecast Assumptions 2011-2015 GWH

Case No. 11-351-EL-AIR Type of Filing: ►Original__Updated___Revised Work Paper Reference No(s): Schedule S-2 Page 4 of 4 Witness Responsible: O. J. Sever

Line No.	Description	20 11	2012	2013	2014	2015
(A)	(B)	(C)	(D)	(E)	(F)	(G)
1	Load Forecat (GWH):					
2	Residential	7,491	7,482	7,504	7,510	7,495
3	Commercial	5,934	5,000	4,874	4,850	4,805
4	Industrial	4,867	4,935	4,950	4,888	4,800
5	Other Retail	56	57	57	58	58
6	Retail Sales	18,349	17,474	17,385	17,306	17,157
7						
8	Munis & Coops	0	. 0	0	0	0
9	Other Sales for Resale	0	. 0	0	0	0
10	Ferc Sales	0	0	0	0	0
11	Customer Choice Sales	2,715	3,732	3,947	3,987	4,026
12	Total On-System Sales	21,064	21,207	21,332	21,293	21,183
13						
14	Employee Growth:					
15						
16	Employee growth was held flat over the forecast period.					
17	· · · · · · · · · · · · · · · · · · ·					
18	Known Labor Cost Changes:					
19						
20	O&M expenses were forecasted by business unit with esc	alations per ye	ear as follow	S.	•	
21	Labor: 3% per year					
22	Non-Labor. 2% per year					

Non-Labor: 2% per year Fringe Benefits: 3% per year

23

24 25

26 27 Capital Structure Requirements/Assumptions:

Targets a 49/51 Debt/Equity Capital Structure

OHIO POWER COMPANY Case No. 11-352-EL-AIR Projected Distribution Income Statement¹ 2011-2015 (\$000)

Data: Five (5) Years Projected Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s):

Schedule S-2 Page 1 of 4 Witness Responsible: O. J. Sever

Line No.	Description	20	41	2012	2013	2014	2015
(A)	(B)		C)	(D)	(E)	(F)	(G)
1	OPERATING REVENUES						
2	Revenues	\$ 4	407,827 \$	420,064 \$	467,282 \$	472,370 \$	481,341
3	Rider Revenues ²		169,828	174,369	173,978	176,940	179,946
4	Total Revenue		577,655	594,434	641,259	649,310	661,287
5							
6	OPERATING EXPENSES						
7	D&M		157,979	160,788	169,502	175.065	180.315
8	Rider O&M ²		90.709	95,924	96.090	99,144	102,294
9	Total O&M	<u> </u>	248,688	256,711	265,592	274,209	282,609
10	Depreciation / Amortization		75,221	71,298	106,780	108,969	111,323
11	Taxes Other Than Income Taxes		60,724	62,640	64,584	66,579	68,547
12	Rider Taxes Other Than Income Taxes ²		79,118	78,445	77,887	77,796	77,652
13	Total Taxes Other Than Income Taxes		139,842	141,086	142,471	144,375	146,199
14	Current Income Taxes		35,537	37,722	37,688	37,309	37,596
15	Deferred Income Taxes		(4,195)	(2,697)	(2,695)	(2,906)	(3,337
16	TC Amortization		(317)	(94)	(61)	(35)	(11
17	Total Operating Expenses		494,775	504,027	549,775	561,920	574,380
18				-			
19	Net Operating Income		82,879	90.407	91,484	87,390	86,907
20							
21	Other Income and Deductions		1.132	1,055	1.633	2.537	3.308
22	Net Interest Charges		24,356	25,265	26,436	23,464	23.273
23	-		-		-		
- 24	Net income		59.655	66,197	66,681	66,462	66,942
25						,	
26	(LESS) PREFERRED DIVIDEND		271	271	271	271	271
27					4	2 7 (
28	Available for Common	¢	59.384 \$	EE ODC ¢	66 #10 *	86 100 P	66,672
20		\$	59,384 \$	65,926 \$	66,410 \$	66,192 \$	00,072

¹ This Income Statement represents a projection of revenues necessary to support the required rate of return.

² These items represent significant revenues or costs associated with riders that will be treated in a separate proceeding.

OHIO POWER COMPANY Case No. 11-352-EL-AIR Projected Distribution Balance Sheet At End of Years: 2011-2015 (\$000)

Data: Five (5) Years Projected Type of Filing: ►Original__Updated__Revised Work Paper Reference No(s): Schedule S-2 Page 2 of 4 Witness Responsible: O. J. Sever

Line											
No.	Description		2011		2012		2013		2014		2015
(4)	(B)		(C)		(D)		(E)		(F)		(G)
1	UTILITY PLANT										
2	Utility Plant	\$	1.827.015	S	1,861,669	5	1 .928 ,654	S	1.976.499	5	2.025.471
3	Construction Work in Progress		29,935		26,503		39,767		54,154		70,349
4	Total Utility Plant		1,856,950		1,908,172		1,968,421		2,030,653		2,095,820
5	(Less) Accumulated Depreciation		631,855		653,184		678,537		704,720		733,680
6	Net Utility Plant		1.225.095		1.254.988		1,289,884		1.325.934		1.362.140
7	•				.,	•	.,	**			
8	CURRENT ASSETS										
9	Cash		1,363		1,363		1,363		1,363		1,363
10	Receivables		64,206		64,206		64,206		64,206		64,206
11	Inventory		15,484		15,484		15,484		15,484		- 15,484
12	Other Current Assets		76,572		76,572		76,572				76,572
13	Total Current Assets		157,625		157,625		167,625		157,625		157,625
14											
15	OTHER PROPERTY & INVESTMENTS		8,104		8,104		8,104		8,104		8,104
16											
17	DEFERRED DEBITS										
18	Regulatory Assets		314,581		388,397		355,172		321,946		288,721
19	Other Non-Current Assets		61,070		60,684		60,366		60,141		<u>59,916</u>
20	Total Deferred Debits		375,651		449,081		415,538		382,087		348,637
21								. . .			
22	Total Assets and Other Debits		1,766,476		1,869,799		1,871,152		1,873,750		1,876,507
23											
24	PROPRIETARY CAPITAL										
25	Due (a see el Ola al										
26	Preferred Stock		6,146		6,146		6,146		6,146		6,146
27 28	Total Common Equity Relained Earnings		387,014		427,205		469,852		513,583		558,102
29	Total Proprietary Capital	·	145,580		164,062		125,757		<u>80,064</u> 599,793		39,849
30			538,741		597,413		601,755		299,193	·	604,098
31	LONG TERM DEBT	. —	418,264		418,264		316,248		270,341		270,341
32			410,204		410,204		310,240		210,041		210,04
33	OTHER NONCURRENT LIABILITIES										
34	Deferred Income Taxes		285.058		282.361		279.666		276.760		273,422
35	ITC Liability/Deferred Tax		200,000		117		2,10,000		21		10
36	Other Noncurrent Liabilities		106,428		106.428		106,428		106,428		106,428
37	Total Noncurrent Liabilities		391,697		388,906		386,150		383,208		379,860
38											
39	CURRENT LIABILITIES										
40	Accounts Payable		219,685		219,685		219,685		219,685		219,685
41	Other Current Liabilities		198,090		245,532		347,314		400,723		402,523
42	Total Current Liabilities		417,775		465,217		566,999		620,408		622,208
43		_									
44	Total Liabilities and Proprietary Capital	\$	1,766,475	\$	1,869,799	\$	1,871,152	\$	1,873,750	\$	1,876,506

OHIO POWER COMPANY Case No. 11-352-EL-AIR Projected Distribution Statement of Changes in Financial Position 2011-2015 (\$000)

Data: Five (5) Years Projected Type of Filing: ▶ Original___Updated___Revised Work Paper Reference No(s):

Line No.	Description		2011		2012		2013		2014		2015
(A)	(B)		(C)		(D)		(E)		(F)		(G)
1	Cash Flows From Operating Activities										
2	Net Income (after preferred stock dividend)	\$	59,384	\$	65,926	\$	66,41D	\$	66,1 92	\$	66,672
3	Depreciation & Amortization		75,221		71,298		106,780		108,969		111,323
4	Regulatory Asset		0		(73,816)		Ð		0		(
5	Deferred Income Tax		(4,195)		(2,697)		(2,695)		(2,906)		(3,337
6	Deferred Investment Tax Credits		(317)		(94)		(61)		(35)		(11
7	AFUDC Equity		(1.132)		(1.055)		(1,633)		(2.537)		(3.306
8	Forecast Net Removal Expenditures		(12,326)		(12,002)		(13,217)		(12,992)		(12,480
9	Other Current Assets and Liabilities (net)		46,022		47,442		101,782		53,409		1,800
10	Net Cash Flow From Operating Activities		162,656		95,003		257,366		210,099		160,653
11											
12	Cash Flows From Investing Activities										
13	Capital Expenditures - Property & Construction		(87,514)		(87,371)		(92,710)		(95,068)		(96,78)
14	Allowance for Borrowed Funds Used During Constr-Cr.		(416)		(378)		(573)		(971)		(1,504
15	Net Cash Flow (Used) by Investing Activities		(87,930)		(87,749)		(93,283)		(96,038)		(96,280
16											
17	Cash Flows From Financing Activities										
18	Proceeds from Issuance of :										
19	Long-Term Debt		0		0		D		D		C
20	Preferred Stock		Ō		Ó		0		0		(
21	Payment for Retirement of:		-				-				
22	Lang-Term Debt		0		a		(102,015)		(45,907)		6
23	Preferred Stock		ō		ō		0		0		í
24	Equity infusions between parent and subs		(74,727)		(7.254)		(62,068)		(68,154)		(62,36)
25	Net Cash Flow From Financing Activities		(74,727)		(7,254)		(164,083)	_	(114,061)		(62,36
26			<u></u> ,		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(1-9100
27	INC(DEC) in CASH & CASH EQUIVALENTS	¢	0	£	0	c	0	c	0	¢	

Schedule S-2 Page 3 of 4

Witness Responsible: O. J. Sever

OHIO POWER COMPANY Case No. 11-352-EL-AIR Forecast Assumptions 2011-2015 GWH

Data: Five (5) Years Projected Type of Filing: ►Original__Updated___Revised Work Paper Reference No(s):

Schedule S-2 Page 4 of 4 Witness Responsible: O. J. Sever

Line No.		Description	2011	2012	2013	2014	2015
(A)		(6)	(C)	(D)	(E)	(F)	(G)
1	Load Forecat (GV	VH):					
2	Residential		7,494	7,349	7,267	7.187	7.11
3	Commercial		5,637	5,340	5,039	5,026	5,02
4	Industrial		13,008	13,264	13,431	13,503	13 53
5	Other Retail		76	76	75	75	7
6	Retail Sales		* 26,215	26,030	25,811	25,791	25.74
7							
8	Munis & Coops		7	7	7	7	
9	Other Sales for Resa	le	2,404	349	66 6	255	30
10	Ferc Sales	-	2,411	356	672	261	31
11	Customer Choice	Sales	57	440	752	759	76
12	Total On-System	Sales	28,684	26,826	27,236	26,811	26,819
13							
14	Employee Growti	1:					
15						`	
16	Employee growth wa	is held flat over the forecast	period.				
17			•				
18	Known Labor Co	st Changes:					
19							
20	O&M expenses were	forecasted by business unit	with escalations per ye	ar as follow	' 5.		
21	Labor:	3% per year					
22	Non-Labor:	2% per year					
23	Fringe Benefits:	3% per year					
24							
25							
26	Capital Structure	Requirements/Assumpt	tions:				

27 Targets a 54/46 Debt/Equity Capital Structure

AEP OHIO COMPANIES COLUMBUS SOUTHERN POWER COMPANY OHIO POWER COMPANY 11-351-EL-AIR 11-352-EL-AIR

SUPPLEMENTAL FILING REQUIREMENTS

SCHEDULE S-3:

PROPOSED PUBLIC NOTICE

COLUMBUS SOUTHERN POWER COMPANY OHIO POWER COMPANY 11-351-EL-AIR

11-352-EL-AIR

SCHEDULE S-3

PROPOSED LEGAL NOTICE

Columbus Southern Power Company (CSP) and Ohio Power Company (OPCo) are subsidiary electric utility operating companies of American Electric Power Company, Inc. They conduct their combined business in Ohio as "AEP Ohio," and they are proposing to merge into one company. AEP Ohio has filed with the Public Utilities Commission of Ohio (PUCO) Case No. 11-351-EL-AIR and 11-352-EL-AIR, In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively, AEP Ohio) for an Increase in Electric Distribution Rates. AEP Ohio has also sought to amend its tariffs and obtain accounting approval in connection with the proposed rate increases, through its filing in Case No. 11-353-EL-ATA and 11-354-EL-ATA, In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Tariff Approval, and Case No. 11-356-EL-AAM and 11-358-EL-AAM, In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Tariff Approval, and Case No. 11-356-EL-AAM and 11-358-EL-AAM, In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Tariff Approval, and Case No. 11-356-EL-AAM and 11-358-EL-AAM, In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Approval to Change Accounting Methods.

In these cases the Commission will consider the request for approval of increases in the Companies' electric distribution rates, effective with the first billing cycle of January 2012. It has been nearly two decades since CSP or OPCo filed base distribution rate cases for their respective service areas. This filing seeks to bring base distribution rates in line with the current investment required to provide safe, reliable distribution service to customers and to determine an appropriate return on equity. Costs reviewed in this case are based on a test year, considered to be the period from June 1, 2010, to May 31, 2011. In addition, proposals in the filing, if approved by the PUCO, will provide significant benefits in reliability to customers and expansion of new technology. The company proposes an investment component in this case that will provide capital funding for distribution assets, including but not limited to: support for the distribution asset management programs; distribution capacity and infrastructure additions driven by customer demand; and, the continued implementation of advanced technology and the gridSMART® program.

AEP Ohio proposes changes to the Terms and Conditions of service, including the updated prices for miscellaneous distribution charges and pole attachments. In addition, the company proposes a storm deferral reserve and a Deferred Asset Recovery Rider (DARR). Riders being proposed or modified in this case and in conjunction with the pending Electric Security Plan cases (Case Nos. 11-346-EL-SSO and 11-348-EL-SSO) include the Enhanced Service Reliability Rider (ESRR) and the Distribution Investment Rider (DIR).

The proposed distribution rates are presented in two formats: one, as emanating from a combined company (pending the successful merger application of CSP and OPCo currently under consideration at the PUCO); second, as the individual companies CSP and OPCo.

The average increase in total distribution revenue that each rate schedule would bear over the present rates if the proposed increase is granted in full would be:

	CSP	OPCo	Merged Companies
Residential	4.4%	20.7%	11.8%
Commercial and Industrial	22.2%	7.6%	14.3%
Lighting	26.5%	38.7%	32.6%
Total	10.6%	16.0%	13.3%

The average increase in total revenue to AEP Ohio if the proposed increase is granted in full would be:

CSP	OPCo	Merged Companies
1.9%	2.6%	2.3%

AEP Ohio proposes to recover other costs through riders; however, those costs and the subsequent rate impacts are not known at this time.

Recommendations that differ from this application may be made by the PUCO staff or by intervening parties and may be adopted by the Commission. Any person, firm, corporation or association may file, pursuant to section 4909.19 of the Ohio Revised Code, an objection to the proposed electric distribution rate increases by alleging that such proposals are unjust and discriminatory or unreasonable. A copy of the application is available for inspection at the main office of AEP Ohio, 850 Tech Center Drive, Gahanna Ohio 43230, and at the Public Utilities Commission of Ohio, 180 East Broad Street, Columbus, Ohio 43215-3793. The application and supporting documents may also be viewed at the Commission's web page at http://www.puc.state.oh.us.

AEP OHIO COMPANIES COLUMBUS SOUTHERN POWER COMPANY OHIO POWER COMPANY 11-351-EL-AIR 11-352-EL-AIR

SUPPLEMENTAL FILING REQUIREMENTS

SCHEDULE S-4.1:

EXECUTIVE SUMMARY OF CORPORATE PROCESSES

American Electric Power

and Subsidiaries

Columbus Southern Power Company and Ohio Power Company

DBA as AEP Ohio

Executive Summary Corporate Process

Schedule S-4.1

American Electric Power

And subsidiaries Columbus Southern Power Company and Ohio Power Company, DBA as AEP Ohio Summary of Compliance with Ohio Administrative Code Chapter II Section (B) (8)

Executive Summary Corporate Process Schedule S-4.1

SFR Reference:

(B)(8) Executive Summary Corporate Process

Schedule S-4.1: Executive Summary of Corporate Process

This report is intended to comply with the requirements of Standard Filing Requirements (SFR) Chapter II Sections (B) (8) and is identified as Schedule S-4.1. This is part one of a two-part report that discusses not only American Electric Power's corporate process but also the management policies, practices and organization of subsidiaries Columbus Southern Power and Ohio Power, doing business as AEP Ohio. The total report consists of three volumes.

Schedule S-4.1 is an executive summary of the corporate processes used by the boards of directors and corporate officers of AEPSC on behalf of Columbus Southern Power (CSP) and Ohio Power (OP) companies, doing business as AEP Ohio, including descriptions of the roles of each in the integrated AEP System. Areas discussed in this volume are:

- I. Policy and Goal Setting
- II. Strategic and Long-range Planning
- III. Organization Structure
- IV. Decision-making
- V. Ring Fencing
- VI. Controlling Process
- VII. Internal and External Communications

An overview of the AEP System – along with a description of corporate functional and structural relationships – also is given. The corporate processes and organizational structure of the AEP System involve a number of factors, including the size, physical and operating characteristics of the AEP System.

Exhibits are provided that include, among other things, organizational charts showing the relationships among AEPSC, CSP and OP, as well as the company's annual accountability report.

3

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Page No.

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EXECUTIVE SUMMARY OF CORPORATE PROCESS

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BACKGROUND

Columbus Southern Power (CSP) and Ohio Power (OP), doing business as AEP Ohio, are wholly-owned operating company subsidiaries of American Electric Power Company Inc. (AEP). CSP and OP -- together with the other six operating company subsidiaries -- and the American Electric Power Service Corporation (AEPSC) form the American Electric Power System.

AEP was incorporated under the laws of the State of New York in 1906. It is a public utility holding company that owns, directly or indirectly, all of the outstanding common stock of its public utility subsidiaries and varying percentages of other subsidiaries.

The service areas of AEP's public utility subsidiaries cover portions of the states of Arkansas, Indiana, Kentucky, Louisiana, Michigan, Ohio, Oklahoma, Tennessee, Texas, Virginia and West Virginia. The generating and transmission facilities of AEP's public utility subsidiaries are interconnected and their operations are coordinated. The public utility subsidiaries of AEP traditionally have provided electric service – consisting of generation, transmission and distribution – on an integrated basis to their retail customers. Restructuring legislation in Michigan and Texas, as well as Ohio, has caused the AEP public utility subsidiaries in those states to unbundle previously integrated regulated rates for their retail customers. Maps showing AEP's and AEP Ohio's service territories are attached as Exhibit 1.

The AEP System is an integrated electric utility system. As a result, the member companies of the AEP System have contractual, financial and other business relationships with the other member companies, such as participation in the AEP System savings and retirement plans and tax returns.

AEPSC

AEPSC renders various services at cost to the AEP System utilities. Because these functions are performed on a centralized basis, economies are achieved because each utility does not need to maintain separate personnel at each company to perform these services. AEPSC provides services to CSP and OP in the following functional areas:

- The Chief Operating Officer group provides services in the areas of customer and distribution services, commercial operations, environmental and safety services, shared services and regulatory services.
- The Shared Services organization provides Human Resources, Information Technology and Business Logistics services.
- The Generation function at AEPSC provides four main services to CSP and OP: fossil and hydro services, engineering services, generation business services, and fuel, emissions and logistics.
- Transmission Services plans and operates the CSP and OP transmission system as part of its responsibility to manage the overall AEP transmission system. It includes Transmission Engineering & Project Services, Transmission System & Region Operations and Transmission Strategy & Business Development.
- The Office of the Chairman provides not only the services of the AEP chairman and chief executive officer, and his administrative staff, but also provides legal, audit, corporate communications and federal/external affairs services.
- The Finance, Accounting and Strategic Planning groups within AEPSC provide corporate accounting, tax research and consultation, planning and budgeting, risk management, cash management, treasury and investor relations services.

MANAGEMENT POLICIES, PROCESSES AND ORGANIZATION

CSP and OP have substantial portions of their corporate processes intermeshed with the parent company. A substantial portion of the senior management of CSP and OP consists of AEP and AEPSC officers. Therefore, it is necessary to examine the corporate processes in those corporations in order to understand more fully the corporate process of CSP and OP.

I. Policy and Goal Setting

AEP's corporate policies are established to maximize AEP System efficiency and effectiveness. This is done with an active involvement on the part of the operating companies and with regard for their individual needs and capabilities.

To facilitate the use of common operating policies, practices and procedures, and to assure the meeting of the AEP System's corporate objectives and goals, the AEP System uses interlocking boards of directors and management. Members of AEPSC senior management serve not only on the boards of the subsidiaries, including CSP and OP, but also as part of their executive management team. The executive officers of AEPSC employees.

Establishment of Policy:

The establishment of policy, which is part of the overall planning process, is done at all levels of the AEPSC, CSP and OP organizational units and is not reserved to top management. Higher management sets major policies while progressively lower management levels set derivative or supporting policies.

The AEP Board of Directors establishes broad corporate policies. AEP's Board of Director's Public Policy Committee is responsible for examining the company's policies on major public issues affecting the AEP System.

The AEP Executive Council is the AEP System's top policy making body. AEP's Executive Council is comprised of the presidents of each of the utility operating companies and the following AEPSC officers: the chairman and chief executive officer, the chief operating officer, the president - AEP Transmission, the president - AEP Utilities, the executive vice president and chief financial officer, the executive vice president - Generation, the executive vice president - Environment, Safety & Health, the senior vice president and general counsel, the senior vice president - Commercial Operations, the senior vice president - Regulatory Services and the senior vice president - Shared Services.

AEP's Executive Council establishes goals that challenge employees to meet and exceed objectives associated with the company's business purpose. The Executive Council also sets the earnings per share (EPS) earnings goals. Each business unit establishes its own departmental goals.

The president of CSP and OP is responsible for formulating and recommending policies, practices and procedures governing the operation and maintenance of CSP and OP facilities.

II. Strategic and Long-Range Planning

The AEP System corporate process is designed to achieve AEP System corporate objectives through the use of a series of generally accepted management processes. The operation of the AEP System involves the concerted actions of the AEP, CSP and OP boards of directors; the AEPSC, CSP and OP corporate officers; and AEPSC, CSP and OP employees.

The type of planning by the manager depends on the objective of the organizational unit for which that manager is responsible. While the first line supervisor may be responsible only for day-to-day planning,



an executive level officer is responsible for long-range planning. Higher management levels in the AEPSC and CSP and OP organizations deal with strategic planning; establishment of policies; planning for the provision of human resources, physical facilities and financial resources.

Long-range planning involves setting objectives and strategies to achieve those objectives and is continuously affected by factors such as legislative and regulatory developments, technological developments, and economic trends and financial forces. Strategic and long-range planning is done at the AEPSC, CSP and OP higher management levels as well as the departmental levels. Twice a year, the AEP Board of Directors has a two-day retreat at which it reviews the AEP strategic plan. Strategic and long-range financial planning is coordinated by AEP's chief financial officer and AEPSC's senior vice president - Corporate Planning & Budgeting.

III. Organization Structure

There are several layers to the AEP organization structure. Each of the utility subsidiaries is described below. AEP's corporate structure and upper management organization charts are presented in Exhibit 2.

- American Electric Power Company Inc. is the parent company and a registered holding company under the Public Utility Holding Company Act of 2005.
 - AEP and its subsidiaries are engaged in the generation, transmission and distribution of electricity in 11 states.
 - CSP is engaged in the generation, transmission and distribution of electric power to approximately 749,000 retail customers in Ohio, and in supplying and marketing electric power at wholesale to other electric utilities, municipalities and other market participants. CSP's service area is comprised of two areas in Ohio, which include portions of 25 counties. One area includes the city of Columbus, and the other is a predominantly rural area in south central Ohio.
 - OP is engaged in the generation, transmission and distribution of electric power to approximately 710,000 retail customers in the northwestern, east central, eastern and southern Ohio, and in supplying and marketing electric power at wholesale to other electric utility companies, municipalities and other market participants.
 - Appalachian Power Company is engaged in the generation, transmission and distribution of electric power to approximately 959,000 retail customers in southwestern Virginia and southern West Virginia.
 - Indiana Michigan Power Company is engaged in the generation, transmission and distribution of electric power to approximately 583,000 retail customers in northern and eastern Indiana and southwestern Michigan.
 - Kentucky Power Company is engaged in the generation, transmission and distribution of electric power to approximately 175,000 retail customers in eastern Kentucky.
 - Kingsport Power Company provides electric service to approximately 47,000 retail customers in Kingsport and eight neighboring communities in northeastern Tennessee.
 - Public Service Company of Oklahoma is engaged in the generation, transmission and distribution of electric power to approximately 531,000 retail customers in eastern and southwestern Oklahoma.

- Southwestern Electric Power Company is engaged in the generation, transmission and distribution of electric power to approximately 474,000 retail customers in northeastern Texas, northwestern Louisiana and western Arkansas.
- AEP Texas Central Company is engaged in the transmission and distribution of electric power to approximately 766,000 retail customers through regional electric providers in southern Texas.
- AEP Texas North Company is engaged in the transmission and distribution of electric power to approximately 185,000 retail customers through regional electric providers in west and central Texas.
- Wheeling Power Company provides electric service to approximately 41,000 retail customers in northern West Virginia.
- AEP Generating Company is an electric generating company that sells power at wholesale to Indiana Michigan Power Company, CSP and Kentucky Power Company.

IV. Decision Making

AEP Board of Directors

The business of AEP is managed under the broad supervision and direction of the board of directors. The AEP board establishes broad corporate policies and authorizes various specific types of transactions but is not involved in the day-to-day functioning of the AEP System. The AEP Board of Directors exercises its supervisory duties through eight regular meetings, as well as special meetings as required. The AEP board has adopted Principles of Corporate Governance, a copy of which is attached as Exhibit 3 and also can be found on AEP's website at www.AEP.com/investors/corporategovernance/

The AEP board has appointed the following seven standing committees to assist it in the fulfillment of its duties:

The **Audit Committee** is responsible for, among other things, the appointment of the independent registered public accounting firm for the company; reviewing with the independent auditor the plan and scope of the audit and approving audit fees; monitoring the adequacy of financial reporting and internal control over financial reporting; and meeting periodically with the internal auditor and the independent auditor. A more detailed discussion of the purposes, duties and responsibilities of the Audit Committee is found in the Audit Committee charter, a copy of which is attached as Exhlbit 4 and also can be found on AEP's website at www.AEP.com/investors/corporategovernance/

The **Committee on Directors and Corporate Governance** has the responsibilities set forth in its charter, including recommending selection criteria for nominees for election or appointment to the board, supervising the AEP Corporate Compliance Program and overseeing AEP's Corporate Accountability Report (Exhibit 11). A copy of the charter is attached as Exhibit 5 and also can be found on AEP's website at www.AEP.com/investors/corporategovernance/

The *Executive Committee* is empowered to exercise all the authority of the AEP board, subject to certain limitations prescribed in its bylaws, during the intervals between meetings of the board.

The *Finance Committee* monitors and reports to the AEP Board with respect to the capital requirements and financing plans and programs of AEP and its subsidiaries, including reviewing and making recommendations concerning the short and long-term financing plans and programs of AEP and its subsidiaries. The Finance Committee has the responsibilities set forth in its charter, a copy of which is attached as Exhibit 6 and also can be found on AEP's website at *www.AEP.com/investors/corporategovemance/*

The Human Resources Committee annually reviews and approves AEP's executive compensation in the context of the performance of management and the company. The HR Committee has the responsibilities set forth in its charter, a copy of which is attached as Exhibit 7 and also can be found on AEP's website at www.AEP.com/investors/corporategovernance/

The **Nuclear Oversight Committee** is responsible for overseeing and reporting to the AEP board with respect to the management and operation of AEP's nuclear generation. The Nuclear Oversight Committee has the responsibilities set forth in its charter, a copy of which is attached as Exhibit 8 and also can be found on AEP's website at www.AEP.com/investors/corporategovernance/

The **Policy Committee** is responsible for examining AEP's policies on major public issues affecting the AEP System, including environmental, technology, fuel supply, industry change and other matters.

CSP Board of Directors

The CSP Board of Directors presently consists of nine members, all of whom are senior officers of AEPSC. The CSP Board of Directors passes upon all the various corporate decisions required of a board. It considers the declaration of dividends, appoints and, when applicable, accepts resignation of officers, approves capital improvement requisitions and lease requisitions. The CSP board also reviews and approves all financing programs for the company. A chart of the CSP directors is shown as Exhibit 9A.

OP Board of Directors

The OP Board of Directors presently consists of nine members, all of whom are senior officers of AEPSC. The OP Board of Directors passes upon all the various corporate decisions required of a board. It considers the declaration of dividends, appoints and, when applicable, accepts resignation of officers, approves capital improvement requisitions and lease requisitions. The OP board also reviews and approves all financing programs for the company. A chart of the OP directors is shown as Exhibit 9B.

V. Ring Fencing

The principles of ring fencing In utility regulation were codified in various provisions of the Public Utility Holding Company Act of 1935, (PUHCA). American Electric Power Company, Inc., (AEP), was a registered public utility holding company under the PUHCA until that act was repealed in 2005. The separation of regulated utility functions from non-regulated businesses required by PUHCA and prevailing throughout the AEP system has not been altered or diluted as it relates to AEP Ohio since the repeal of PUHCA. As a result, AEP Ohio, as constituent public utilities within the AEP system, continues to benefit from the ring fencing protections set forth in the PUHCA. In practical terms, this means that AEP Ohio:

- 1. has not made any investment in any entity engaged in a non-regulated business;
- has not made loans or extended credit to AEP or to any affiliate engaged in a nonregulated business; and
- has not guaranteed the indebtedness or the obligations of AEP or any affiliate engaged in a non-regulated business.

AEP Ohio consists of two separate legal entities, Ohio Power Company and Columbus Southern Power Company. Each AEP Ohio utility is a registered issuer under federal securities acts; each has independent access to public capital markets through which each continually raises capital. Each AEP Ohio utility is independently rated by the nationally recognized statistical credit rating agencies. Each AEP Ohio utility is managed by a board of directors that is responsible for authorizing action, including the acquisition or disposition of material assets, issuances of securities, and declaration of dividends, in such a way as to preserve the credit ratings and creditworthiness of each entity.

On June 2, 2010, the Commission approved AEP Ohlo's corporate separation plans, filed June 1, 2009, and specifically found that the corporate separation plans were adequately implemented by AEP Ohio in accordance with Section 4928.17, Revised Code, Chapter 4901:1-37, O.A.C., and the orders of the Commission. (Opinion and Order in Case No. 09-464-EL-UNC). With its corporate separation plans, AEP Ohio has in place structural safeguards to ensure the independent functioning of the companies and their affiliates in a manner which is consistent with the Commission's Code of Conduct and which rejects cross-subsidization. The companies' accounting protocols, approach to financial arrangements, adherence to the Cost Allocation Manual requirements, employee education and training and internal compliance monitoring each support the goals and policies set out in Section 4928.02, Revised Code.

VI. Controlling Process

Although there are many types of controls being used at each level of the organization, the AEP System and individual operating company annual budgets are a primary managerial control. The control process is an integral part of the entire management process and, by necessity, interrelates with the strategic and long-range planning process that is discussed earlier. Within the AEP System, control also is exercised over the determination and promulgation of and compliance with policies at every level, which also is discussed earlier. Control of the organization also is accomplished through organizational planning, documentation through organizational charts, job descriptions, approval procedures for organizational changes and periodic reviews at all levels of the organization. Control is exercised over the quality of the personnel through selection techniques, training and performance evaluation. Control is exercised over wages and salaries through salary administration practices that include a structured approval process, periodic salary reviews and comparison with outside work forces.

Control over capital expenditures begins with the initial approval of a project through the completion stages. Major capital projects and lease improvement projects are approved by the boards of directors of the respective operating companies. The annual operating forecast is another major tool in the control process. It provides a benchmark for both the AEP System and individual operating company performance. Control also is exercised through the accounting system and its various controls and procedures.

VII. Internal and External Communications

AEP uses a variety of electronic and print media to communicate to its employees. AEP maintains an internal intranet web portal, "AEP Now," which can be accessed online at work or at home by employees. Internal and external news stories of interest to employees are published on AEP Now.

AEP also uses other communications designed around the corporate organizational structure. Special video presentations and other items of critical importance to employees and the company are presented and explained through employee meetings and leadership conferences. Recordings of webcasts also are available to employees for viewing via AEP Now. Information regarding personal benefits and other issues important to employees and their families typically is delivered through printed correspondence sent directly to employees' homes. This information also is available online to employees via the company's internal HR Now website.

External communication is conducted through a variety of media as well. Shareholder meetings, financial and sustainability annual reports, news releases and other special presentations provide updates about the status of the company.

Residential consumers and small businesses receive information via bill inserts. In cases involving larger commercial and industrial customers, customer service representatives may communicate through e-mail or face-to-face meetings. Each individual AEP operating company, such as AEP Ohio, also maintains an external website that is accessible to all customer classes. AEP Ohio customers can access AEP Ohio

via the company's dedicated call centers and the AEP and AEP Ohio websites, AEP.com and AEPOhio.com.

VIII. Goal Attainment and Quantification

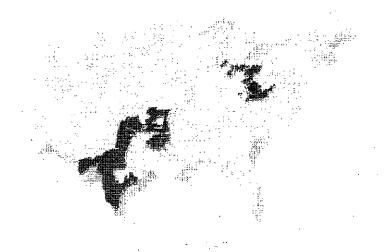
AEP's success can be measured not only by its earnings but also by other measures that are specific to its business segments. AEP's management team has compiled metrics to assess the performance of each group. Employees' incentive targets typically are based on the AEP corporate EPS target and the employee's departmental goals. A history of significant events in AEP's history of firsts, as well as significant events in AEP Ohio's history, can be found in Exhibits 10A and 10B.

Exhibit 1 – AEP and AEP Ohio Service Territories

Regulated Utility Operations

AEP, with more than 5 million American customers, is one of the country's largest investor-owned utilities, serving parts of 11 states. The service territory covers 197,500 square miles in Arkansas, Indiana, Kentucky, Louisiana, Michigan, Ohio, Oklahoma, Tennessee, Texas, Virginia and West Virginia.

AEP's U.S. customers are served by one of the world's largest transmission and distribution systems. Systemwide there are more than 38,000 circuit miles of transmission lines and more than 186,000 miles of distribution lines. More information about AEP and its operating companies is available under the About Us tab on AEP.com.



AEP Ohio Territory

AEP Ohio, headquartered in Gahanna, Ohio, encompasses the AEP service territories within the state of Ohio and the northern panhandle of West Virginia. AEP Ohio serves the customers of both major AEP subsidiaries in Ohio – Ohio Power Company and Columbus Southern Power Company – and Wheeling Power in West Virginia. AEP Ohio maintains regulatory and external affairs offices in Columbus. More information about AEP Ohio is available under the News & Information tab on AEPOhio.com.



Exhibit 2 – AEP Corporate Structure and Organization Charts

13

□ Anterlain Electric Power Company, Inc. □ AEP C & I Company, LLC (100%) □ AEP Texas Commercial & Industrial Retail GP, LLC (100%) □ AEP Texas Commercial & Industrial Retail Limited Partnership (0.50%) □ AEP Texas Commercial & Industrial Retail Limited Partnership (0.50%) □ AEP Texas Commercial & Industrial Retail Limited Partnership (0.50%) □ AEP Texas Commercial & Industrial Retail Limited Partnership (0.50%) □ REP General Partner, LLC. (100%) □ Mutual Energy SWEPCO, LP (0.50%) □ AEP Cent. Inc. (100%) □ Mutual Energy SWEPCO, LP (0.50%) □ Mutual Energy SWEPCO, LP (0.50%) □ Mutual Energy SWEPCO, LP (0.50%) □ AEP Cent. Inc. (100%) □ Survecap Code Company, Inc. (100%) □ AEP Flor Variance LLC (100%) □ AFP Flor Variance LLC (100%) □ AFP Flor Variance LLC (100%) □ AFP Flor Variance LLC (100%) □ Armetrial Exchange, Inc. (0.43%) □ Minorceal Carpozation (12.50%) □ Minorceal Carpozation (12.50%) □ Minorceal Texting Contractors Company, LLC (100%) □	CorpCharts - Subsidiary Chart for American Electric P	ower Company, Inc.
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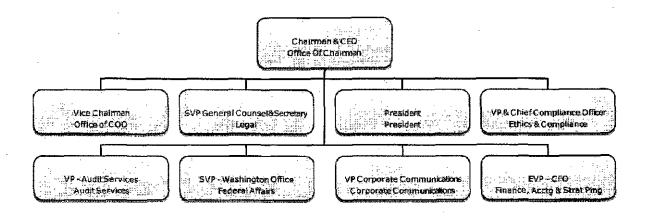
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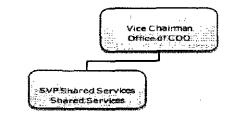
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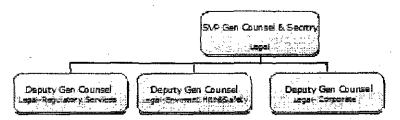
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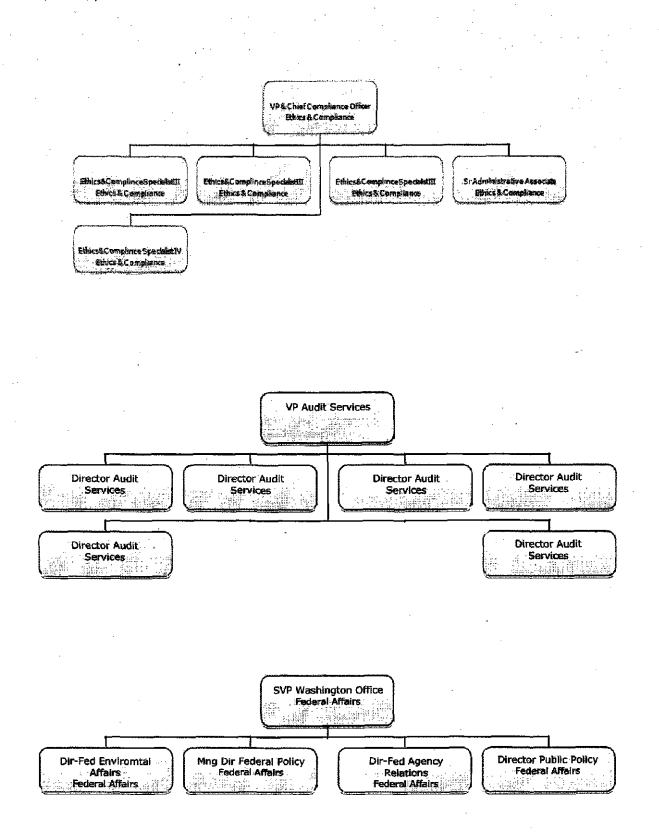
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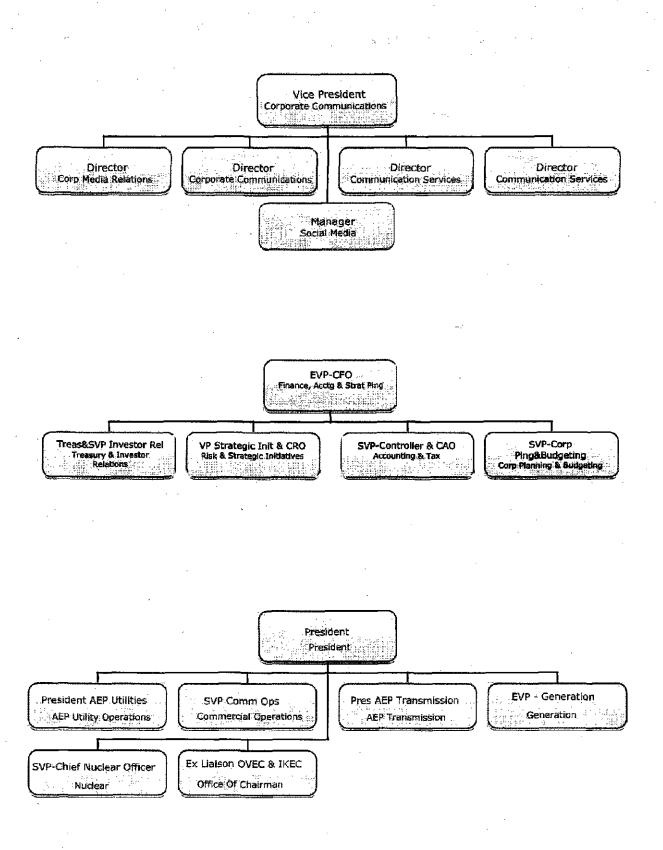


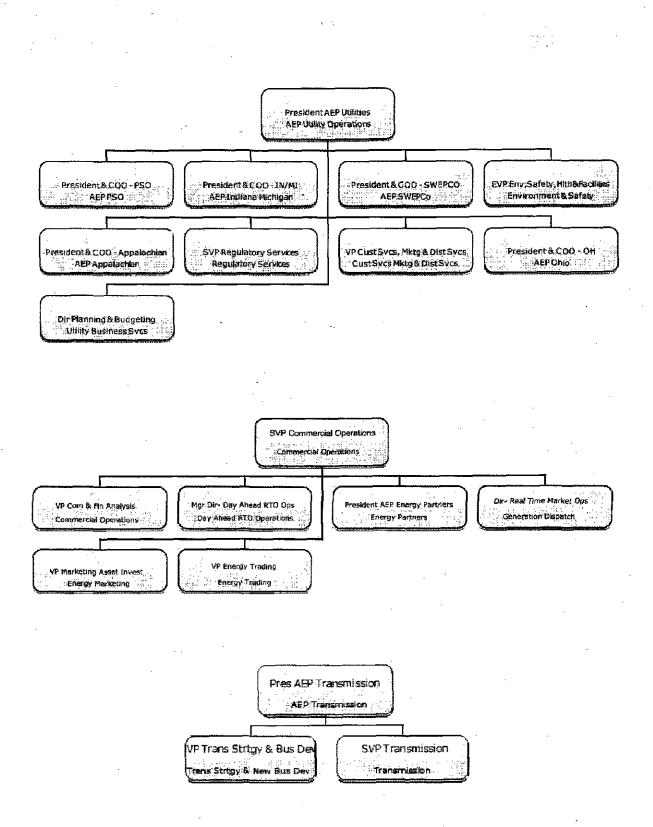


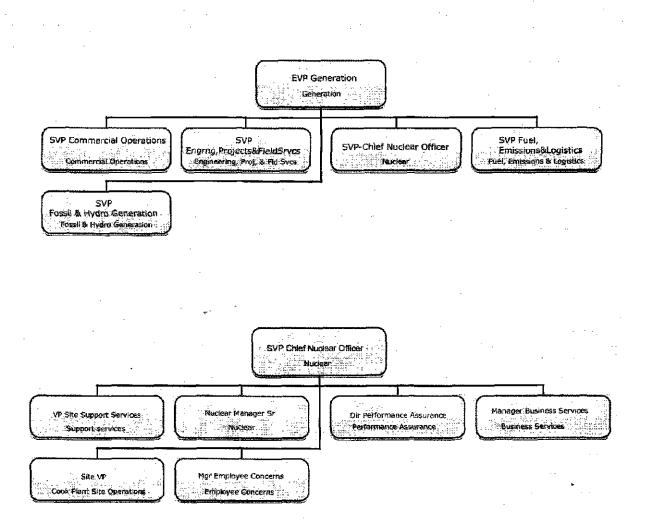


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Organization Structure AEP Ohio

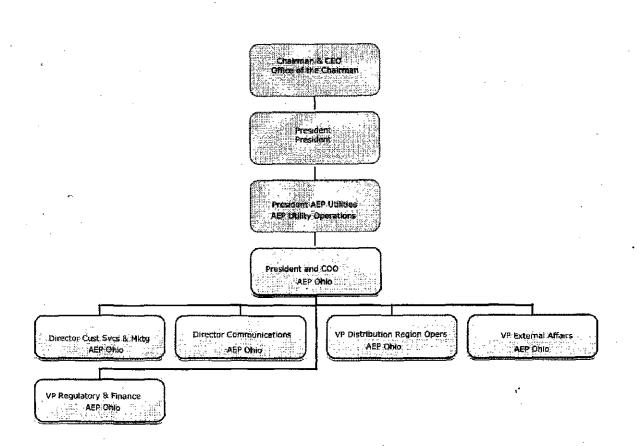


Exhibit 3 - AEP Principles of Corporate Governance

AMERICAN ELECTRIC POWER COMPANY, INC. PRINCIPLES OF CORPORATE GOVERNANCE OF THE BOARD OF DIRECTORS

Amended as of December 13, 2006

Under New York law, the Company is managed under direction of the Board of Directors. The Board of Directors establishes broad corporate policies and authorizes various types of transactions, but it is not involved in day-to-day operational details. Its various responsibilities include the selection and compensation of the Chief Executive Officer ("CEO"), the understanding and approval of corporate strategies and the understanding of the numerous issues and risks the Company faces on an ongoing basis.

I. DIRECTOR QUALIFICATION STANDARDS

A. <u>Selection of Directors</u>

The Board of Directors (the "Board") is responsible for nominating Directors who will be elected annually by the shareholders. In nominating a slate of Directors, the Board's objective, with the assistance of the Committee on Directors and Corporate Governance, is to select individuals with skills and experience that can be of assistance to management in operating the Company's business.

Directors should possess the highest personal and professional ethics, integrity and values, and be committed to representing the long-term interests of the shareholders. They must also have an inquisitive and objective perspective, practical wisdom and mature judgment.

Directors must be willing to devote sufficient time to carrying out their duties and responsibilities effectively.

B. Board Size

The Board determines, with the assistance of the Committee on Directors and Corporate Governance, the appropriate Board size, taking into consideration the parameters set forth in the Company's charter and by-laws, the Company's diversity goals and objectives, and the overall Board composition. The Board should neither be too small to maintain the needed expertise and independence, nor too large to be efficiently functional. If appropriate, the Board should recommend amendments to the Company's charter or by-laws in order to provide for a different Board size than may be set forth therein. The Board should consist of a majority of independent directors as determined by the Committee on Directors and Corporate Governance.

C. <u>Change of Principal Occupation or Business Association</u>

Directors should offer their resignation in the event of any significant change in their principal job responsibilities or business associations. The Committee on Directors and Corporate Governance will recommend to the Board the action to be taken with respect to the resignation.

D. <u>Term Limits</u>

The Board does not believe it should limit the number of terms for which an individual may serve as a director. Directors who have served on the Board for an extended period of time are able to provide valuable insight into the operations and future of the Company based on their experience with and understanding of the Company's history, policies and objectives. The Board believes that, as an alternative to term limits, it can ensure that the Board continues to evolve and adopt new viewpoints through the evaluation and nomination process described in these guidelines. The Company's Directors are elected annually.

E. <u>Retirement Policy</u>

The Board believes that 72 is an appropriate retirement age for outside directors. Directors nd generally will not be nominated for re-election at any annual shareholders meeting following their 72 birthday.

F. <u>Other Boards</u>

Without specific approval from the Board, (i) no director may serve on more than six public company boards (including the Company's Board); (ii) directors who also serve as CEOs of publicly-traded companies should not serve on more than two public company boards in addition to their employer's board; and (iii) no director who serves on the Audit Committee may serve on more than three public company audit committees (including the Company's Audit Committee). The Committee on Directors and Corporate Governance and the Board will take into account the nature of and time involved in a director's service on other boards in evaluating the suitability of individual directors and making its recommendations to Company shareholders.

II. DIRECTOR RESPONSIBILITIES

A. <u>Chairman and CEO</u>

The Board elects its Chairman and appoints the Company's CEO. If the Chairman and CEO positions are held by two different people, the Chairman will be one of the independent directors (an "Independent Chairman"). If the roles of Chairman and CEO are performed by the same person, the Board will establish the position of a Presiding Director.

B. Independent Chairman or Presiding Director

The Independent Chairman or the Presiding Director, as applicable (i) should work closely with the CEO to finalize information flow to the Board, set meeting agendas and arrange meeting schedules and (ii) will chair meetings of the non-management directors and serve as principal liaison between non-management directors and the CEO.

The purpose of the Presiding Director is to promote the independence of the Board of Directors in order to represent the interests of the shareholders. The Presiding Director is selected by nonmanagement Directors. If there is a Presiding Director, his or her name will be communicated to

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shareholders. His or her responsibilities would be to (i) preside over meetings of non-management and independent Directors; (ii) review and approve the agenda for all Board meetings; (iii) call special meetings of the Board as needed; (iv) serve as a channel of communications between the Directors and the CEO; (v) assure that Directors receive timely and necessary information in advance of meetings; and (vi) receive communications from shareholders on behalf of non-management Directors.

C. Board Meetings

The Board has eight scheduled meetings per year and special meetings are held as required. Every effort should be made to schedule meetings sufficiently in advance to ensure maximum attendance at each meeting. All Directors are expected to participate in all Board meetings, review relevant materials, serve on Board committees, and prepare appropriately for meetings and for discussions with management. Accordingly, each Director is expected to devote the time and attention necessary to properly discharge his or her responsibilities as Director.

D. Conduct of Meetings

Board meetings shall be conducted by the Chairman in accordance with customary practice in a manner that ensures open communication, meaningful participation and timely resolution of issues. All Directors have the opportunity to raise items for consideration to be placed on the agenda. Management and any committees of the Board should provide Directors with materials concerning matters to be acted upon in advance of the applicable meeting. Directors should review such materials carefully prior to the applicable meeting.

E. <u>Executive Sessions of Directors</u>

Those Directors of the Company who are not officers of the Company will meet at least two times a year in executive sessions at which management, including the CEO, is not present. The Independent Chairman or the Presiding Director, as applicable, will chair these executive sessions.

F. Ethics and Conflicts of Interest

The Board expects Directors, as well as officers and employees, to act ethically at all times and to acknowledge their adherence to a Code of Business Conduct and Ethics for Directors after adoption by the Board. The Board will not permit any waiver of any ethics policy for any director or executive officer. If an actual or potential conflict of interest arises for a Director, the Director shall promptly inform the CEO and Chairman of the Committee on Directors and Corporate Governance. If a significant conflict exists and cannot be resolved, the Director should resign. All Directors will recuse themselves from any discussion or decision affecting their personal, business or professional interests.

Anyone who has a concern about the Company's conduct may communicate that concern directly to the Presiding Director. Such communications may be confidential or anonymous, and may be submitted in writing to a special address that will be published on the Company's website.

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III. DIRECTOR ACCESS TO MANAGEMENT

Directors shall have complete access to the Company's management in order to become and remain informed about the Company's business and for such other purposes as may be helpful to the Board in fulfilling its responsibilities.

The Board encourages management to, from time to time, invite to Board meetings managers who (a) can provide additional insight into the items being discussed because of responsibility for and/or personal involvement in these areas, and/or (b) are managers with future potential that the senior management believes should be given exposure to the Board.

IV. DIRECTOR COMPENSATION

Compensation Generally

The Board establishes the form and amount of compensation of outside Directors. Outside Directors are called on to devote significant time and energy to the performance of their duties. To attract and retain able and experienced Directors, the Company must compensate them fairly. Directors who are employees of the Company receive no additional compensation for service on the Board.

The Committee on Directors and Corporate Governance is responsible for making recommendations to the Board concerning Director compensation. To assist in setting compensation, the Committee or the full Board may request information from the staff of the Company or from independent consultants on the compensation of boards of comparable corporations. In general, the Board believes that the compensation for outside Directors should consist of both cash and ownership of stock.

The Company shall disclose its policy regarding compensation for Directors in its annual proxy statement. The Board, with the assistance of the Committee on Directors and Corporate Governance, shall periodically review Director compensation (including additional compensation for committee members) in comparison to corporations that are similarly situated to ensure that such compensation is reasonable and competitive.

V. DIRECTOR ORIENTATION AND CONTINUING EDUCATION

Under the direction of the Committee on Directors and Corporate Governance, the Company shall establish an orientation program for all newly elected Directors in order to ensure that the Company's Directors are fully informed as to their responsibilities and the means at their disposal for the effective discharge of those responsibilities. The orientation program shall, at a minimum, familiarize new Directors with the Company's (i) strategic plans; (ii) financial control systems and procedures and any significant financial, accounting and risk-management issues; (iii) compliance programs, including with SEC reporting obligations and NYSE corporate

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governance listing standards; (iv) code of ethics, conflict policies and other controls; (v) principal officers; and (vi) internal and independent auditors. The new Directors shall be introduced to such management and other personnel, and representatives of the Company's outside legal, accounting and other outside advisors as is appropriate to familiarize them with the resources available to them.

The Company shall also make continuing education opportunities available to the Company's Directors in areas relevant to its business activities and with respect to corporate governance issues. In addition, Directors are encouraged to participate in educational opportunities that will enhance their performance as a director of AEP.

VI. MANAGEMENT SUCCESSION

The Human Resources Committee shall, together with the full Board, establish policies, principles and procedures for the selection of the CEO and his or her successors, including policies regarding succession in the event of an emergency or the retirement of the CEO. The Board, with the assistance of the Human Resources Committee, shall review annually with the CEO management succession planning and development.

VII. ANNUAL PERFORMANCE EVALUATIONS

A. Board Evaluation

The Board shall evaluate annually the effectiveness of the Board and its committees. The purpose of this evaluation is to increase the effectiveness of the Board as a whole, and specifically review areas in which the Board and/or management believes a better contribution could be made from the Board. As appropriate, the Board shall then meet in executive session to discuss these assessments.

B. Evaluation of CEO

The Human Resources Committee shall establish policies, principles and procedures for the evaluation of the CEO. This evaluation shall be made annually by the Board under the oversight of the Human Resources Committee. Such evaluation shall be based on objective criteria including performance of the business, accomplishment of long-term strategic objectives and development of management. The Board shall meet in executive session to discuss the Human Resources Committee's evaluation of the CEO.

VIII. BOARD COMMITTEES

A. Number and Type <u>of Committees</u>

The Board has 7 committees – an Audit Committee, a Human Resources Committee, a Committee on Directors and Corporate Governance, a Nuclear Oversight Committee, a Policy Committee, a Finance Committee and an Executive Committee. The Board may add new committees or remove existing committees as if deems advisable for purposes of fulfilling its

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primary responsibilities. Each committee will perform its duties as assigned by the Board of Directors in compliance with Company bylaws. These may be described briefly as follows:

- <u>Audit Committee.</u> The Audit Committee oversees and monitors the Company's financial reporting, auditing and accounting process; is directly responsible for the appointment, compensation and oversight of the Company's independent auditors; reviews and oversees the Company's internal audit department, and provides an open avenue of communication among the independent auditors, financial and senior management, the internal auditor and the Board of Directors.
- <u>Human Resources Committee.</u> The Human Resources Committee stays informed as to market levels of compensation, recommends compensation of the CEO and COO to the Board and approves compensation of the other executive officers.
- <u>Committee on Directors and Corporate Governance</u>. The Committee on Directors and Corporate Governance is responsible for recommending to the Board individuals to be nominated as directors. This includes evaluation of new candidates. This committee also takes a leadership role in shaping the corporate governance of the Company and performs other duties as are described in these guidelines.
- <u>Nuclear Oversight Committee.</u> The Nuclear Oversight Committee is responsible for overseeing and reporting to the Board with respect to the management and operation of the Company's nuclear generation.
- <u>Policy Committee</u>. The Policy Committee is responsible for examining the Company's policies on major public issues affecting the AEP System, including environmental, industry change and other matters, as well as established System policies that affect the relationship of the Company and its subsidiaries to their service areas and the general public.
- <u>Finance Committee</u>. The Finance Committee monitors the present and future capital requirements and opportunities pertaining to the Company's business and provides guidance with respect to major financial policies of the Company.
- <u>Executive Committee.</u> The Executive Committee is empowered to exercise all the authority of the Board of Directors, subject to certain limitations prescribed in the By-Laws, during the intervals between meetings of the Board.

B. Selection of Committee Members

The Board shall select the Directors to serve on each committee, giving consideration to the independence and other requirements of the NYSE (and any other applicable law or any rule or regulation of any other regulatory body or self-regulatory body applicable to the Company) and to any recommendations put forth by the Committee on Directors and Corporate Governance.

C. Responsibilities

The Board, or the applicable committee pursuant to a Board delegation of authority, shall adopt a charter for such committee in compliance with all applicable rules and regulations. The charters for each of the Committee on Directors and Corporate Governance, the Human Resources Committee and the Audit Committee shall include, at a minimum, those responsibilities required to be set forth therein by the rules of the NYSE, by law or by the rules or regulations of any other regulatory body or self-regulatory body applicable to the Company.

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Exhibit 4 – Audit Committee Charter

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AMERICAN ELECTRIC POWER COMPANY, INC. AUDIT COMMITTEE OF THE BOARD OF DIRECTORS CHARTER Amended as of December 13, 2006

I. PURPOSE

The Audit Committee (the "Committee") shall:

- A. Provide assistance to the Board of Directors in fulfilling its responsibilities to the shareholders, potential shareholders and investment community with respect to its oversight of:
 - (i) The quality and integrity of the corporation's financial statements;
 - (ii) The corporation's compliance with financial reporting-related legal and regulatory requirements including internal control over financial reporting;
 - (iii) The independent auditor's qualifications, independence and performance; and
 - (iv) The performance of the corporation's internal auditor.
- B. Prepare the report that SEC rules require be included in the corporation's annual proxy statement.

II. STRUCTURE AND OPERATIONS

A. <u>Composition and Qualifications</u>

The Committee shall be comprised of three or more members of the Board of Directors, each of whom is determined by the Board of Directors to be "independent" under the rules of the New York Stock Exchange, Inc. and the Sarbanes-Oxley Act (and any rules promulgated thereunder).

All members of the Committee shall have a working familiarity with basic finance and accounting practices (or acquire such familiarity within a reasonable period after his or her appointment) and at least one member must be a "financial expert" under the requirements of the Sarbanes-Oxley Act (and any rules promulgated thereunder).

B. Appointment and Removal

The members of the Committee shall be appointed by the Board of Directors and shall serve until such member's successor is duly elected and qualified or until such member's earlier resignation or removal. The members of the Committee may be removed, with or without cause, by a majority vote of the Board of Directors.

C. <u>Chairman</u>

The Board of Directors will appoint the Chairman of the Committee. The Chairman shall be entitled to cast a vote to resolve any ties. The Chairman will chair all regular sessions of the Committee and set the agendas for Committee meetings.

III. MEETINGS

The Committee shall meet at least quarterly, or more frequently as circumstances dictate or as requested by the Company's independent auditors, management or internal auditor. As part of its goal to foster open communication, the Committee shall periodically meet separately with the Independent Auditors, Chief Internal Audit Executive, or any other company employee the Committee deems necessary to discuss any matters that the Committee or each of these groups believe would be appropriate to discuss privately. In addition, the Committee shall meet with the Independent Auditors and management quarterly to review the corporation's financial statements in a manner consistent with that outlined in Section IV of this Charter. The Chairman of the Board or any member of the Committee may call meetings of the Committee. Meetings of the Committee may be held telephonically.

All non-management directors that are not members of the Committee may attend meetings of the Committee but may not vote. Additionally, the Committee may invite to its meetings any director, manager of the corporation and such other persons as it deems appropriate in order to carry out its responsibilities. The Committee may also exclude from its meetings any persons it deems appropriate in order to carry out its responsibilities.

IV. RESPONSIBILITIES AND DUTIES

The following functions shall be the common recurring activities of the Committee in carrying out its responsibilities outlined in Section I of this Charter. These functions should serve as a guide with the understanding that the Committee may carry out additional functions and adopt additional policies and procedures as may be appropriate in light of changing business, legislative, regulatory, legal or other conditions. The Committee shall also carry out any other responsibilities and duties delegated to it by the Board of Directors from time to time related to the purposes of the Committee outlined in Section I of this Charter.

The Committee, in discharging its oversight role, is empowered to study or investigate any matter of interest or concern that the Committee deems appropriate. The Committee shall have the authority to retain outside legal, accounting or other advisors for this purpose, including the authority to approve the fees payable to such advisors and any other terms of retention.

The Committee shall be given full access to the corporation's internal audit group, Board of Directors, corporate executives and independent accountants as necessary to carry out these responsibilities. While acting within the scope of its stated purpose, the Committee shall have all the authority of the Board of Directors.

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Notwithstanding the foregoing, the Committee is not responsible for certifying the corporation's financial statements or guaranteeing the auditor's report. The fundamental responsibility for the corporation's financial statements and disclosures rests with management and the independent auditors.

A. Financial Reporting

1. Review with management and the independent auditors prior to public dissemination the corporation's annual audited financial statements and quarterly financial statements, including the corporation's disclosures under "Management's Discussion and Analysis of Financial Condition and Results of Operations" and a discussion with the independent auditors of the matters required to be discussed by Statement of Auditing Standards No. 61.

2. In consultation with the independent auditors, management and the internal auditor, review the integrity of the corporation's financial reporting processes. In that connection, the Committee should obtain and discuss with management, the internal auditor and the independent auditor, reports regarding: (i) major issues related to accounting principles and financial statement presentation, including any significant changes in the Company's selection or application of accounting principles; (ii) analyses prepared by management and/or the independent auditor setting forth significant financial reporting issues, estimates and judgments made in connection with the preparation of the financial statements, including alternative treatments of financial information within generally accepted accounting principles; (iii) the effect of regulatory and accounting initiatives, as well as off-balance sheet structures on the financial statements; (iv) any other material written communications between the independent auditor and management; and (v) the scope of internal and independent auditors reviews of internal controls over financial reporting and reports on significant findings and recommendations, together with management's response.

3. Review with the independent auditor (i) any audit problems or other difficulties encountered by the auditor in the course of the audit process, including any restrictions on the scope of the independent auditor's activities or on access to requested information, and any significant disagreements with management and (ii) management's responses to such matters. Without excluding other possibilities, the Committee may wish to review with the independent auditor (i) any accounting adjustments that were noted or proposed by the auditor but were "passed" (as immaterial or otherwise), (ii) any significant communications between the audit team and the audit firm's national office respecting auditing or accounting issues presented by the engagement; (iii) any "management" or "internal control" letter issued, or proposed to be issued, by the independent auditor to the corporation; and, (iv) the responsibilities, performance, budget and staffing of the internal audit group.

4. Review periodically, with the corporation's counsel, any legal matter that could have a significant impact on the corporation's financial statements.

5. Review and discuss with management the corporation's earnings press releases (paying particular attention to the use of any "pro forma" or "adjusted" non-GAAP information), as well as financial information and earnings guidance provided to analysts and rating agencies. The Committee's discussion in this regard may be general in nature (i.e., discussion of the types of information to be disclosed and the type of presentation to be made) and need not take place in advance of each earnings release or each instance in which the corporation may provide earnings guidance.

6. Review and discuss with management, the internal auditor, and the independent auditors the scope of management's and the external auditors review of internal control over financial reporting and steps adopted in light of any material internal control deficiencies identified.

B. Independent Auditor

1. Appoint, approve fees, and oversee the work of the independent auditor engaged (including resolution of disagreements between management and the auditor regarding financial reporting) for the purpose of preparing or issuing an audit report or related work or performing other audit, review or attest services for the corporation. The independent auditor reports directly to the Committee. These oversight responsibilities include the authority to retain (or to terminate) the independent auditor. In addition, in connection with these oversight responsibilities, the Committee has ultimate authority to approve all audit engagement fees and terms, as well as all non-audit engagements of the independent auditor.

2. Evaluate, at least annually, the qualifications, performance and independence of the independent auditors, including an evaluation of the lead partner. In conducting its review and evaluation, the Committee should:

(a) Obtain and review a written report by the independent auditor describing: (i) the auditing firm's internal quality-control procedures; (ii) any

material issues raised by the most recent internal quality-control review, or peer review, of the auditing firm, or by any inquiry or investigation by governmental or professional authorities, within the preceding five years, respecting one or more independent audits carried out by the auditing firm, and any steps taken to deal with any such issues; and (iii) all relationships between the independent auditorand the corporation;

(b) Ensure the rotation of partner rules are met and consider whether there should be rotation of the audit firm itself.

C. <u>Internal Auditor</u>

1. Review with management and the chief internal audit executive the charter, plans, activities, staffing and organization structure of the internal audit function.

2. Ensure there are no unjustified restrictions or limitations on the work of the internal auditor.

3. Review and concur with the appointment, replacement, or dismissal of the chief internal audit executive.

D. Legal Compliance/General

1. Discuss with management the corporation's guidelines and policies with respect to risk assessment and risk management. The Committee should discuss the corporation's major financial risk exposures and the steps management has taken to monitor and control such exposures.

2. Set clear hiring policies for employees or former employees of the independent auditors.

3. Establish procedures for: (i) the receipt, retention and treatment of complaints received by the corporation regarding accounting, internal controls over financial reporting, or auditing matters; and (ii) the confidential, anonymous submission by employees of the corporation of concerns regarding questionable accounting or auditing matters.

4. Perform any functions required to be performed by it or otherwise appropriate under applicable law, rules or regulations, the corporation's by-laws and the resolutions or other directives of the Board, including review of any certification required to be reviewed in accordance with applicable law or regulations of the SEC.

5. Initiate inquiries of areas of special interest.

6. Devote one meeting per year, at a minimum, that is focused on improving Committee performance and training of Committee members. In addition, Committee members are encouraged to attend external programs annually.

E. <u>Reports</u>

1. Prepare all Committee reports required to be included in the corporation's proxy statement, pursuant to and in accordance with applicable rules and regulations of the SEC.

2. Report regularly to the full Board of Directors:

(i) with respect to any issues that arise concerning the quality or integrity of the corporation's financial statements, the corporation's compliance with legal or regulatory requirements, the performance and independence of the corporation's independent auditors or the performance of the internal audit function;

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(ii) following all meetings of the Committee; and

(iii) with respect to such other matters as are relevant to the Committee's discharge of its responsibilities.

The Committee shall provide such recommendations as the Committee may deem appropriate. The report to the Board of Directors may take the form of an oral report by the Chairman or any other member of the Committee designated by the Committee to make such report.

3. Maintain minutes or other records of meetings and activities of the Committee.

V. ANNUAL PERFORMANCE EVALUATION

The Committee shall evaluate, at least annually, the performance of the Committee and its members. In addition, the Committee shall review and reassess, at least annually, the adequacy of this Charter and recommend to the Board of Directors any modifications to this Charter. The Committee shall conduct such evaluations and reviews in such manner as it deems appropriate.

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Exhibit 5 – Committee of Directors and Corporate Governance Charter

AMERICAN ELECTRIC POWER COMPANY, INC. COMMITTEE ON DIRECTORS AND CORPORATE GOVERNANCE CHARTER

Amended as of January 27, 2010

I. PURPOSE

The Committee on Directors and Corporate Governance (the "Committee") shall provide assistance to the Board of Directors in fulfilling its responsibility to the shareholders, potential shareholders and investment community by:

- A. Identifying individuals qualified to become directors and selecting, or recommending that the Board of Directors select, the candidates for all directorships to be filled by the Board of Directors or by the shareholders;
- В.

Developing and recommending to the Board of Directors a set of corporate governance principles applicable to the corporation; and

Otherwise taking a leadership role in shaping the corporate governance of the corporation.

II. STRUCTURE AND OPERATIONS

A. <u>Composition and Qualifications</u>

The Committee shall be comprised of three or more members of the Board of Directors, each of whom is determined by the Board of Directors to be "independent" in accordance with the rules of the New York Stock Exchange, Inc. ("NYSE")

B. Appointment and Removal

The members of the Committee shall be appointed by the Board of Directors and shall serve until such member's successor is duly elected and qualified or until such member's earlier resignation or removal. The members of the Committee may be removed, with or without cause, by a majority vote of the Board of Directors.

C. Chairman

The Chairman shall be elected by the full Board of Directors. The Chairman shall be entitled to cast a vote to resolve any ties. The Chairman will chair all regular sessions of the Committee and set the agendas for Committee meetings.

III. MEETINGS

The Committee shall meet at least four times annually, or more frequently as circumstances dictate. The Chairman of the Board or any member of the Committee may call meetings of the Committee. Meetings of the Committee may be held telephonically.

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All non-management directors that are not members of the Committee may attend meetings of the Committee but may not vote. Additionally, the Committee may invite to its meetings any director, management of the corporation and such other persons as it deems appropriate in order to carry out its responsibilities. The Committee may also exclude from its meetings any persons it deems appropriate in order to carry out its responsibilities.

IV. RESPONSIBILITIES AND DUTIES

The following functions shall be the common recurring activities of the Committee in carrying out its responsibilities outlined in Section I of this Charter. These functions should serve as a guide with the understanding that the Committee may carry out additional functions and adopt additional policies and procedures as may be appropriate in light of changing business, legislative, regulatory, legal or other conditions. The Committee shall also carry out any other responsibilities and duties delegated to it by the Board of Directors from time to time related to the purposes of the Committee outlined in Section I of this Charter. The Committee shall have access to, and authority to approve the fees of, such independent advisors it deems necessary to carry out its duties and responsibilities.

The Committee, in discharging its oversight role, is empowered to study or investigate any matter of interest or concern that the Committee deems appropriate.

A. <u>Board Selection, Composition, Evaluation and Compensation</u>

1. Establish criteria for the selection of directors to serve on the Board of Directors. Such criteria should include:

- Maintaining the highest personal and professional ethics, integrity and values;
- Being committed to representing the long-term interests of the shareholders;
- Having an inquisitive and objective perspective, practical wisdom and mature judgment; and
- Possessing a willingness to devote sufficient time to carrying out their duties and responsibilities effectively, including attendance at meetings.

2. Identify individuals believed to be qualified as candidates to serve on the Board of Directors and recommend that the Board of Directors select the candidates for all directorships to be filled by the Board of Directors or by the shareholders at an annual or special meeting. Collectively, the Board should be balanced by having complementary knowledge, expertise and skill in areas such as business, finance, accounting, marketing, public policy, manufacturing and operations, government, technology, environmental and other areas that the Board has decided are desirable and helpful to fulfilling its role. Diversity in gender, race, and background of directors, consistent with the Board's requirements for knowledge, standards, and experience, are desirable in the mix of the Board.

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3. Review and make recommendations to the full Board of Directors whether members of the Board should stand for re-election. Consider matters relating to the retirement of Board members, including age caps.

4. Conduct all necessary and appropriate inquiries into the backgrounds and qualifications of possible candidates. In that connection, the Committee shall have authority to retain and to terminate any search firm to be used to assist it in identifying candidates to serve as directors of the corporation, including sole authority to approve the fees payable to such search firm and any other terms of retention.

5. Review, at least annually, the independence and possible conflicts of interest of members of the Board of Directors and executive officers.

6. Review and make recommendations, as the Committee deems appropriate, regarding the composition and size of the Board of Directors in order to ensure the Board has the requisite expertise consisting of persons with sufficiently diverse and independent backgrounds.

7. Oversee evaluation of, at least annually, and as circumstances otherwise dictate, the Board of Directors and Committees of the Board.

8. Review and make recommendations to the Board of Directors regarding the compensation of the members of the Board.

9. Review annually the performance of individual directors.

10. Make a recommendation to the Board of Directors whether to accept or reject a tendered resignation of any incumbent director nominee who fails to receive the affirmative vote of a majority of votes cast at a meeting of shareholders in an uncontested election. The affected incumbent director shall be excluded from participating in the Committee's consideration and decision. In making their recommendation, the members of the Committee so acting may consider any and all factors and other information that they consider appropriate and relevant. The members of the full Board of Directors other than the affected incumbent director shall act on the tendered resignation and publicly disclose the decision, and the reasons for such decision, within 90 days from the date of the certification of the election results.

B. <u>Committee Selection and Composition</u>

1. Recommend members of the Board of Directors to serve on the committees of the Board, giving consideration to the criteria for service on each committee as set forth in the charter for such committee, as well as to any other factors the Committee deems relevant, and where appropriate, make recommendations regarding the removal of any member of any committee.

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2. Recommend members of the Board of Directors to serve as the Chair of the committees of the Board of Directors.

3. Establish, monitor and recommend the purpose, structure and operations of the various committees of the Board of Directors, the qualifications and criteria for membership on each committee of the Board and, as circumstances dictate, make any recommendations regarding periodic rotation of directors among the committees.

4. Periodically review the charter and composition of each committee of the Board of Directors and make recommendations to the Board for the creation of additional committees or the elimination of Board committees. The Committee shall also, at least annually, evaluate and review the charters of the Human Resources Committee and the Audit Committee to ensure compliance with any law, regulation or rule of any state, local or federal governmental body or the New York Stock Exchange.

C. <u>Corporate Governance</u>

1. Consider the adequacy of the by-laws of the corporation and recommend to the Board of Directors, as conditions dictate, that it propose amendments to the certificate of incorporation and by-laws for consideration by the shareholders.

2. Develop and recommend to the Board of Directors a set of corporate governance principles.

3. Encourage and provide opportunities for outside education for all members of the Board of Directors covering legislation, rules, procedures and best practices relevant to corporate governance issues and best practices training in Board and committee participation, as needed.

4. Supervise on a continuing basis the implementation of the AEP Corporate Compliance Program, including reporting by the chief compliance officer, the development of specific programs of legal compliance in various important areas of concern to the operation of AEP System companies, and the designation of successor chief compliance officers.

5. Supervise on a continuing basis the implementation of the Company's Related Person Policy, which covers material transactions between the Company and any member of the Board of Directors, the Company's executive council members and Section 16 officers and each of their immediate family members.

6. Oversee the Company's Sustainability Report, including the portion of the report that relates to the Company's political contributions.

7. Oversee elements of the Company's risks that are within the scope of this Committee's responsibilities as assigned to it by the Board of Directors from time to time.

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D. <u>Reports</u>

1. Report regularly to the Board of Directors with respect to such other matters as are relevant to the Committee's discharge of its responsibilities. The report to the Board of Directors may take the form of an oral report by the Chairman or any other member of the Committee designated by the Committee to make such report.

2. Maintain minutes or other records of meetings and activities of the Committee.

V. ANNUAL PERFORMANCE EVALUATION

The Committee shall perform a review and evaluation, at least annually, of the performance of the Committee, including the compliance of the Committee with this Charter. In addition, the Committee shall review and reassess, at least annually, the adequacy of this Charter and recommend to the Board of Directors any improvements to this Charter that the Committee considers necessary or valuable. The Committee shall conduct such evaluations and reviews in such manner as it deems appropriate.

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AMERICAN ELECTRIC POWER COMPANY, INC. FINANCE COMMITTEE OF THE BOARD OF DIRECTORS CHARTER

I. PURPOSE

The Finance Committee (the "Committee") shall be responsible for monitoring and reporting to the Board with respect to the capital requirements and financing plans and programs of AEP and its subsidiaries including, reviewing and making recommendations concerning the short and longterm financing plans and programs of AEP and its subsidiaries.

II. STRUCTURE AND OPERATIONS

Composition and Qualifications

The Committee shall be comprised of three or more members of the Board of Directors.

Appointment and Removal

The members of the Committee shall be appointed by the Board of Directors and shall serve until such member's successor is duly elected and qualified or until such member's earlier resignation or removal. The members of the Committee may be removed, with or without cause, by a majority vote of the Board of Directors.

Chairman

The Chairman shall be elected by the full Board of Directors. The Chairman shall be entitled to cast a vote to resolve any ties. The Chairman will chair all regular sessions of the Committee and set the agendas for Committee meetings.

III. MEETINGS

The Committee shall meet at least four times annually, or more frequently as circumstances dictate. The Chairman of the Board or any member of the Committee may call meetings of the Committee. All meetings of the Committee may be held telephonically. All non-management directors that are not members of the Committee may attend meetings of the Committee but may not vote. Additionally, the Committee may invite to its meetings any director, management of the corporation and such other persons as it deems appropriate in order to carry out its responsibilities. The Committee may also exclude from its meetings any persons it deems appropriate in order to carry out its responsibilities.

IV. RESPONSIBILITIES AND DUTIES

The following functions shall be the common recurring activities of the Committee in carrying out its responsibilities outlined in Section I of this Charter. These functions should serve

as a guide with the understanding that the Committee may carry out additional functions and adopt additional policies and procedures as may be appropriate in light of changing business, legislative, regulatory, legal or other conditions. The Committee shall also carry out any other responsibilities and duties delegated to it by the Board of Directors from time to time related to the purposes of the Committee outlined in Section I of this Charter.

- 1. Review the financial condition of the Company and make recommendations as it considers appropriate concerning the short and long-term financing plans and programs of the Company and its subsidiaries,
- 2. Consider and provide recommendations to the Board on dividend policy, including the declaration and payment of dividends,
- 3. Review and approve the treasury policies of AEP and its subsidiaries (including the Corporate Financing Policy, the Treasury Interest Rate Risk Management Policy, the Treasury Foreign Currency Policy, the Treasury Liquidity Policy and the Short-Term Investment Policy),
- 4. Review the performance of the investments in the pension fund and other major benefit plans of the Company, and
- 5. Prepare such reports, plans or recommendations as it may consider appropriate.

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Exhibit 7 – Human Resources Committee Charter

AMERICAN ELECTRIC POWER COMPANY, INC. HUMAN RESOURCES COMMITTEE OF THE BOARD OF DIRECTORS CHARTER As of October 24, 2006

I. PURPOSE

The Human Resources Committee (the "Committee") shall ensure that the executive officers and other key employees of the Company and its subsidiaries are compensated in a manner consistent with the stated compensation strategy of the Company, internal equity considerations, competitive practices and the requirements of appropriate regulatory bodies. The Committee shall also ensure that the Company's and Board's compensation policies and reasoning behind such policies is communicated to shareholders as required by the Securities and Exchange Commission and other appropriate regulatory bodies. Furthermore, the Committee will play an oversight role in such important matters as employee compensation, employee benefits, safety, workforce diversity and management succession planning.

II. STRUCTURE AND OPERATIONS

Composition and Qualifications

The Committee shall be comprised of three or more members of the Board of Directors, each of whom is determined by the Board of Directors to be "independent" in accordance with the rules of the New York Stock Exchange, Inc.

Appointment and Removal

The members of the Committee shall be appointed by the Board of Directors and shall serve until such member's successor is duly elected and qualified or until such member's earlier resignation or removal. The members of the Committee may be removed, with or without cause, by a majority vote of the Board of Directors.

Chairman

The Chairman shall be elected by the full Board of Directors. The Chairman shall be entitled to cast a vote to resolve any ties. The Chairman will chair all regular sessions of the Committee and set the agendas for Committee meetings.

III. MEETINGS

The Committee shall meet at least five times annually, or more frequently as circumstances dictate. The Chairman of the Board or any member of the Committee may call meetings of the Committee.

As part of its review and establishment of the performance criteria and compensation of designated key executives, the Committee may meet separately with the Chief Executive Officer ("CEO"), the corporation's principal human resources executive, and any other corporate officers, as it deems appropriate. The Committee also meets regularly without any company officers or other employees present, and such officers shall not be present or shall be excused from meetings at which their performance and compensation are being discussed and determined. Meetings of the Committee may be held telephonically.

All non-management directors who are not members of the Committee may attend meetings of the Committee but may not vote. Additionally, the Committee may invite to its meetings any director, management of the corporation and such other persons as it deems appropriate in order to carry out its responsibilities. The Committee may also exclude from its meetings any persons it deems appropriate in order to carry out its responsibilities.

IV. RESPONSIBILITIES AND DUTIES

The following functions shall be the common recurring activities of the Committee in carrying out its responsibilities outlined in Section I of this Charter. These functions should serve as a guide with the understanding that the Committee may carry out additional functions and adopt additional policies and procedures as may be appropriate in light of changing business, legislative, regulatory, legal or other conditions. The Committee shall also carry out any other responsibilities and duties delegated to it by the Board of Directors from time to time related to the purposes of the Committee outlined in Section I of this Charter.

- 1. Review and approve the Company's total compensation strategy to ensure that rewards are commensurate with Company success, shareholder value creation and the practices of appropriate peer companies; that a significant amount of executive compensation is placed at risk; and that it supports the achievement of the Company's objectives.
- 2. Establish goals and objectives pertaining to all annual and long-term incentive compensation plans for the CEO and other executive officers.
- 3. Review the Company's executive compensation programs to ensure the attraction, retention and appropriate reward of exceptionally knowledgeable, highly qualified and experienced executive officers and other key employees; to motivate the performance of these executives towards the achievement of the Company's business objectives; and to align the interest of AEP's executives with the long-term interests of the Company's shareholders.
- 4. Review and approve all incentive compensation, long-term compensation and equity based compensation plans of the Company that are not otherwise subject to the approval of the Company's shareholders and any awards to individual employees with a target or potential value in excess of the management approval limit established and, from time to time, adjusted by the Committee.

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- 5. Annually review the performance of the CEO and other executive officers, certify the performance of the Company and management for the purpose of determining incentive compensation for these executive officers. The Committee shall recommend the compensation of the CEO for approval by the independent members of the Board of Directors and approve the compensation of other executive officers after consulting with the CEO.
- 6. Review the performance of senior management of the Company and its significant majority owned subsidiaries and approve the salaries, annual incentive awards and other significant compensation for all officers at the Senior Vice President level and above and other key employees.
- 7. Annually report to shareholders the factors on which the CEO's and other executive officer's compensation was based and the relationship between corporate performance and executive compensation as required by the appropriate regulatory bodies.
- 8. Review and approve the major benefit programs of the Company to ensure that they support the Company's objectives.
- 9. Select and engage subject matter experts, as needed, to provide independent, external advice to the Committee on matters under their purview, including an annual independent review of the Company's executive compensation programs relative to appropriate peer companies. The Committee shall have the sole authority to approve the fees and terms of engagement of those rendering such advice.
- 10. Annually review the major elements of the Company's safety efforts and results.
- 11. Annually review Company workforce diversity planning, results and compliance with equal opportunity laws.
- 12. Annually review the senior management succession plan and process of the Company and report to the Board.
- 13. Annually monitor the level of the Company's merit budget.
- 14. Regularly report to the Board of Directors (i) following meetings of the Committee; (ii) with respect to such matters as are relevant to the Committee's discharge of its responsibilities; and (iii) with respect to such recommendations as the Committee may deem appropriate.

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V. ANNUAL PERFORMANCE EVALUATION

The Committee shall perform a review and evaluation, at least annually, of the performance of the Committee and its members, including by reviewing the compliance of the Committee with this Charter. In addition, the Committee shall review and reassess, at least annually, the adequacy of this Charter and recommend to the Board of Directors any improvements to this Charter that the Committee considers necessary or valuable. The Committee shall conduct such evaluations and reviews in such manner as it deems appropriate.

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Exhibit 8 – Nuclear Oversight Committee Charter

AMERICAN ELECTRIC POWER COMPANY, INC. NUCLEAR OVERSIGHT COMMITTEE OF THE BOARD OF DIRECTORS CHARTER As adopted on February 24, 2004

I. PURPOSE

The Nuclear Oversight Committee (the "Committee") shall be responsible for overseeing and reporting to the Board of Directors with respect to the management and operation of the Company's nuclear generation.

II. STRUCTURE AND OPERATIONS

Composition and Qualifications

The Committee shall be comprised of three or more members of the Board of Directors.

Appointment and Removal

The members of the Committee shall be appointed by the Board of Directors and shall serve until such member's successor is duly elected and qualified or until such member's earlier resignation or removal. The members of the Committee may be removed, with or without cause, by a majority vote of the Board of Directors.

Chairman

The Chairman shall be elected by the full Board of Directors. The Chairman shall be entitled to cast a vote to resolve any ties. The Chairman will chair all regular sessions of the Committee and set the agendas for Committee meetings.

III. MEETINGS

The Committee shall meet at least four (4) times annually, or more frequently as circumstances dictate. The Chairman of the Board or any member of the Committee may call meetings of the Committee. All meetings of the Committee may be held telephonically.

All non-management directors that are not members of the Committee may attend meetings of the Committee but may not vote. Additionally, the Committee may invite to its meetings any director, management of the corporation and such other persons as it deems appropriate in order to carry out its responsibilities. The Committee may also exclude from its meetings any persons it deems appropriate in order to carry out its responsibilities.

IV. RESPONSIBILITIES AND DUTIES

The following functions shall be the common recurring activities of the Committee in carrying out its responsibilities outlined in Section I of this Charter. These functions should serve as a guide with the understanding that the Committee may carry out additional functions and adopt additional policies and procedures as may be appropriate in light of changing business, legislative, regulatory, legal or other conditions. The Committee shall also carry out any other responsibilities and duties delegated to it by the Board of Directors from time to time related to the purposes of the Committee outlined in Section I of this Charter.

The Committee, in discharging its oversight role, is empowered to study or investigate any matter of interest or concern that the Committee deems appropriate.

1. Review and oversee the following nuclear generation areas:

- a. Safety;
- b. **Public policy**;
- c. Waste and environmental policy;
- d. Industry events and developments;
- e. Compliance with governmental actions and requirements as specified by the Nuclear Regulatory Commission or otherwise;
- f. Conformance with management practices, policies and performance with industry standards;

g. Compliance with self-regulatory organization requirements as indicated by the Institute of Nuclear Power Operations or otherwise; and

h. Operational performance.

- Charter a Nuclear Safety Review Board (NSRB) to evaluate the performance of the Cook Nuclear Plant.
- Meet from time to time with corporate officers, the Director of Nuclear Performance Assurance, and the Nuclear Safety Review Board to obtain direct perspective on nuclear operations.

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V. ANNUAL PERFORMANCE EVALUATION

The Committee shall perform a review and evaluation, at least annually, of the performance of the Committee and its members, including by reviewing the compliance of the Committee with this Charter. In addition, the Committee shall review and reassess, at least annually, the adequacy of this Charter and recommend to the Board of Directors any improvements to this Charter that the Committee considers necessary or valuable. The Committee shall conduct such evaluations and reviews in such manner as it deems appropriate.

Exhibit 9A – Columbus Southern Power Directors

Akins, Nicholas K. English, Carl L. Miller, D. Michael Morris, Michael G. Powers, Robert P. Radous, Barbara D. Tierney, Brian X. Tomasky, Susan Welch, Dennis E. Executive Vice President - Generation Chief Operating Officer Senior Vice President/General Counsel/Secretary Chairman, President & Chief Executive Officer President - AEP Utilities Senior Vice President - Shared Services Executive Vice President / Chief Financial Officer President - AEP Transmission Executive Vice President - Environmental, Safety, Health & Facilities

Exhibit 9B - Ohio Power Directors

Akins, Nicholas K. **Executive Vice President - Generation** English, Carl L. Chief Operating Officer Senior Vice President/General Counsel/Secretary Miller, D. Michael Morris, Michael G. Chairman, President & Chief Executive Officer Powers, Robert P. President - AEP Utilities Radous, Barbara D. Senior Vice President – Shared Services Tierney, Brian X. Executive Vice President / Chief Financial Officer Tomasky, Susan President – AEP Transmission Welch, Dennis E. Executive Vice President - Environmental, Safety, Health & Facilities

Exhibit 10A - Significant Events in AEP's History

Reference: "American Electric Power: A Century of Firsts," by Luke Feck. 2006

- 1917 First major mine-mouth power plant, Windsor Plant, located just north of Wheeling, W.Va., together with longdistance transmission to load center in Canton, Ohio, 55 miles away.
- 1920 First application of carrier-current telephony to transmission lines for system dispatching.
- 1924 First reheat generating unit, Philo Plant, Unit 1, Philo, Ohio.
- 1925 First field tests to check interrupting performance of circuit breakers.
- 1928 First proposal of coordination of system insulation strength to electric power industry.
- 1928 First hydrogen cooling of synchronous condenser at Tumer Station, West Virginia.
- 1929 First triple-compound generating unit, Philo Plant, Unit 3.
- 1929 First high-speed carrier-current relaying.
- 1929 First use of automatic frequency and tie-line load-control.
- **1929** First transmission line lightning-protection research.
- **1930** First new power plant designed for operation at 1.250 psi steam pressure, Deepwater Plant in New Jersey (jointly owned with Philadelphia Electric Co.):
- 1933 First successful high-speed directional comparison carrier-current relaying.
- 1933 First electronic exciter for synchronous condenser.
- 1935 First ultra-high-speed, high-voltage re-closing circuit breaker.
- 1937 First hydrogen-cooled generator.
- **1937** First application of water cooling to generator stator, Logan Plant, Logan, W.Va.
- 1937 First million pounds per hour of steam in high-pressure boiler (1,250 psi), Logan Plant, Logan, W.Va.
- 1937 First sleet melting of transmission line.
- 1941 First very-high-pressure (2,300 psi), natural-circulation generating unit, Twin Branch Plant, Unit 3, Mishawaka, Ind.
- 1942 First 100 percent make-up, 1,350 psi boller, Deepwater Plant, Unit 7.
- **1945** First shaft-driven main exciter controlled by amplidyne regulating scheme in steam plant, Tidd Plant, Unit 1, Brilliant, Ohio.
- 1946 First 500,000-volt transmission line testing, Tidd Project, Brilliant, Ohio.
- 1946 First commercial use of 1000° F steam, Missouri Avenue Plant, Unit 7, Atlantic City, N.J.
- 1948 First aerial inspection of transmission line.
- 1949 First use of highest-pressure, highest-temperature combination (2,000 psi and 1,050 degrees F primary and 1,000 degrees F reheat), Twin Branch Plant, Unit 5, Indiana.
- 1950 First heat rate below 10,000 Btu per kilowatt-hour, Philip Sporn Plant, New Haven, W.Va.
- 1953 First electronic carrier current relaying.
- 1953 First 345,000-volt transmission line placed into commercial operation.
- 1953 First hot-line maintenance of extra-high-voltage line.
- 1955 First mass start-up of major generating units -- 11, 215,000-kilowatt units in 13-month period. Ohio Valley Electric Corporation's Clifty Creek and Kyger Creek Plants.
- 1955 First "tall stacks:" Three 682-foot stacks at Clifty Creek Plant and 538-foot stacks at Kyger Creek Plant.
- 1956 First time that steam plants designed by same engineering organization rank as Top 5 most efficient in world:

(1) Tanners Creek, Indiana, (2) Kanawha River, West Virginia, (3) Muskingum River, Ohio, (4) Kyger Creek, Ohio, and (5) Clifty Creek, Ohio.

1956 First use of single turbine-driven boller feed pump integrated in thermodynamic cycle, Glen Lynn Plant Unit 6, Glen Lynn, Va...

1957 First use of supercritical-pressure steam (4,500 psi), Philo Plant, Unit 6, Ohio.

- **1957** First use of super-high-temperature steam (1,150 degrees F), Philo Plant, Unit 6, Ohio.
- 1957 First use of double-reheat steam. Philo Plant, Unit 6, Ohio.
- 1958 First research into application of magnetohydrodynamics in electric power generation.
- 1958 First extra-high-voltage interconnection (345,000 volts), AEP System and Commonwealth Edison Co.
- 1958 First static component high-speed, phase-comparison carrier-current relaying.
- 1958 First solid-state carrier-current relaying.
- 1960 First major use of helicopters in transmission line construction.
- 1960 First heat rate below 9.000 Btu per kilowatt-hour, Clinch River Plant, Carbo, Va...
- 1960 First large, supercritical-pressure generating unit, Breed Plant, Sullivan, Ind.
- 1960 First bare-hand maintenance of distribution lines.
- 1960 First 500,000-kilowatt generating unit (later re-rated to 325,000 kilowatts), Breed Plant, Indiana.
- 1961 First two-cycle, high-voltage (138,000 volts) air-blast circuit breaker.
- 1961 First static component high-speed directional comparison carrier-current relaying.
- 1961 First extra-high-voltage bare-hand maintenance.
- 1961 First 775,000-volt transmission line testing, Apple Grove, W.Va.
- 1962 First test of bare-hand maintenance on 775,000-volt line.
- **1962** First two-cycle, extra-high-voltage (345,000 volts) air-blast circuit breaker.
- 1963 First natural-draft, hyperbolic cooling tower in Western Hemisphere, Big Sandy Plant, Louisa, Ky.
- **1964** First computer center for automatic handling of economic power dispatching and load frequency, and for automatic customer billing, inventory control and management data.
- 1965 First major combination pumped-storage and run-of-the-river hydroelectric development, Smith Mountain Lake, Virginia.
- 1965 First field research in use of sodium as electric conductor in transmission and distribution lines.
- 1965 First computer installation designed exclusively for utility engineering applications.
- 1966 First super-high stack (826 feet), Cardinal Plant, Brilliant, Ohio.
- 1966 First use of control room simulator to train power plant operating personnel, Cardinal Plant, Brilliant, Ohio.
- 1966 First use of laser beam to monitor transmission line.
- **1967** First proposal to use ice condenser unit for nuclear reactor containment, Donald C. Cook Nuclear Plant, Bridgman, Mich.
- 1967 First purchase of commercial nuclear fuel for initial reload from supplier other than reactor manufacturer.
- 1968 First 1,200-foot stack (1,206 feet), Mitchell Plant, Moundsville, W.Va.
- 1968 First all electric, totally automated railroad in U.S., Muskingum Electric Railroad, Ohio
- 1969 First 765,000-volt transmission line in operation.
- 1969 First 220-cubic-yard walking dragline, world's largest mobile land machine for surface mining of coal, Central

Ohio Coal Company, Ohio

- **1970** First generating unit of more than 1 million kilowatts by investor-owned utility announced: 1,300,000-kilowatt addition to John E. Amos Plant in St. Albans, W.Va.
- **1970** First water-cooled EHV synchronous condenser in Western Hemisphere, world's largest, Dumont Station, Indiana.
- 1971 First 765,000-volt transmission interconnection, AEP System and Commonwealth Edison.
- 1971 First of its type engineering computer system, AEP Service Corporation, New York.
- 1973 First wide-scale, minute-to-minute supervisory system for measuring air quality near coal-fired plants, transmitting data electronically to computer center.
- 1975 First major research program undertaken to study electric thermal storage.
- 1975 First 3,000,000-kilovolt-ampere transformer bank, Marysville, Ohio.
- **1976** First sustained operation of full-scale power line at 2,000,000 volts, AEP/ASEA UHV Research Center, North Liberty, Indiana.
- 1976 First operation of utility-operated rail-to-river coal-transfer terminal. Cook Coal Terminal, Metropolis, III.
- 1976 First major research program in U.S. on pressurized, fluidized bed combustion.
- 1978 First experiment in utility control of customers' air conditioning and space heating as load-management tool.
- **1978** First successful testing of current-limiting device to prevent short-circuit currents from reaching unmanageable proportions.
- 1978 First utility to have in operation 100 high-voltage transmission interconnections.
- 1979 First operation of 765,000-volt station using sulfur hexafluoride (SF6) gas, rather than air, as insulation.
- 1979 First investor-owned utility system to generate 100 billion kilowatt-hours in 12-month period.
- 1979 First use of a solid-state var compensator to maintain transmission voltage, Beaver Creek Station, Kentucky.
- 1979 First single-phase fault clearing and reclosing of untransposed 765,000-volt line.
- 1980 First use of microprocessors in substation-protective relaying.
- **1981** First application of sliding-pressure technique on supercritical-pressure generating unit to maintain uniform efficiency over load range from full to minimal, Gen. James M. Gavin Plant, Cheshire, Ohio.
- 1984 First use of 765,000-volt live-tank SF6 "puffer" type circuit breaker, Jefferson Station, Indiana.
- **1987** First steam electric-generating unit to operate for 607 consecutive days, at that time a world record, Mountaineer Plant, New Haven, W.Va.
- **1990** First combined-cycle operation of a pressurized, fluidized bed combustion plant in North America, Tidd Plant, Ohio
- **1991** First conversion of a nearly completed nuclear plant to coal-fired operation, William H. Zimmer Generating Station, Moscow, Ohio. It began commercial operation on March 30, 1991.
- **1991** First 345,000-volt series capacitor east of the Mississippi River with thyristor control, and largest capacitor (788 MVAR) at one location.
- 1992 First fossil-fired generating unit in the world to produce 10.6 billion killowatt-hours in a single year, William H. Zimmer Plant, Moscow, Ohio.
- 1998 First unified power flow controller unit is installed at AEP's Inez 138,000-volt station in Kentucky.
- 1999 First transmission bridge capacitor installed at Leslie Station, Kentucky.
- 2001 First 800,000-volt SF6 dead-tank circuit breaker installed at Orange Station, Ohio.

Exhibit 10B – Significant Events for AEP Ohio

1859 - Columbus Street Railway Company is founded (one of the predecessors of Columbus Railway, Power & Light).

November 1883 – The Canton Electric Light Company was incorporated by five city businessmen, including a 40-, year-old lawyer named William McKinley.

Aug. 1, 1894 – Principals of Canton Electric Light and Power met to incorporate The Canton Light, Heat and Power Company. Canton Light, Heat & Power was later acquired by the Electric Company of America in 1901.

Dec. 20, 1906 – American Ges and Electric was incorporated in New York.

Jan. 2, 1907 - Opening day of business for AGE. The company acquires various subsidiaries from the Electric Company of America, including Canton, Light, Heat and Power.

April 30, 1907 – Canton Light, Heat & Power and Central Heating & Light Company were consolidated into a newly incorporated firm, Canton Electric Company (forerunner of today's Ohio Power Company).

1923 – Southern Ohio Electric Company is incorporated.

1937 – Columbus and Southern Electric Company is created through the merger of Columbus Railway, Power and Light Company and the Southern Ohio Electric Company.

1980 - AEP relocates its corporate headquarters to Columbus, Ohio, from New York City.

May 9, 1980 - AEP acquires Columbus and Southern Ohio Electric Company.

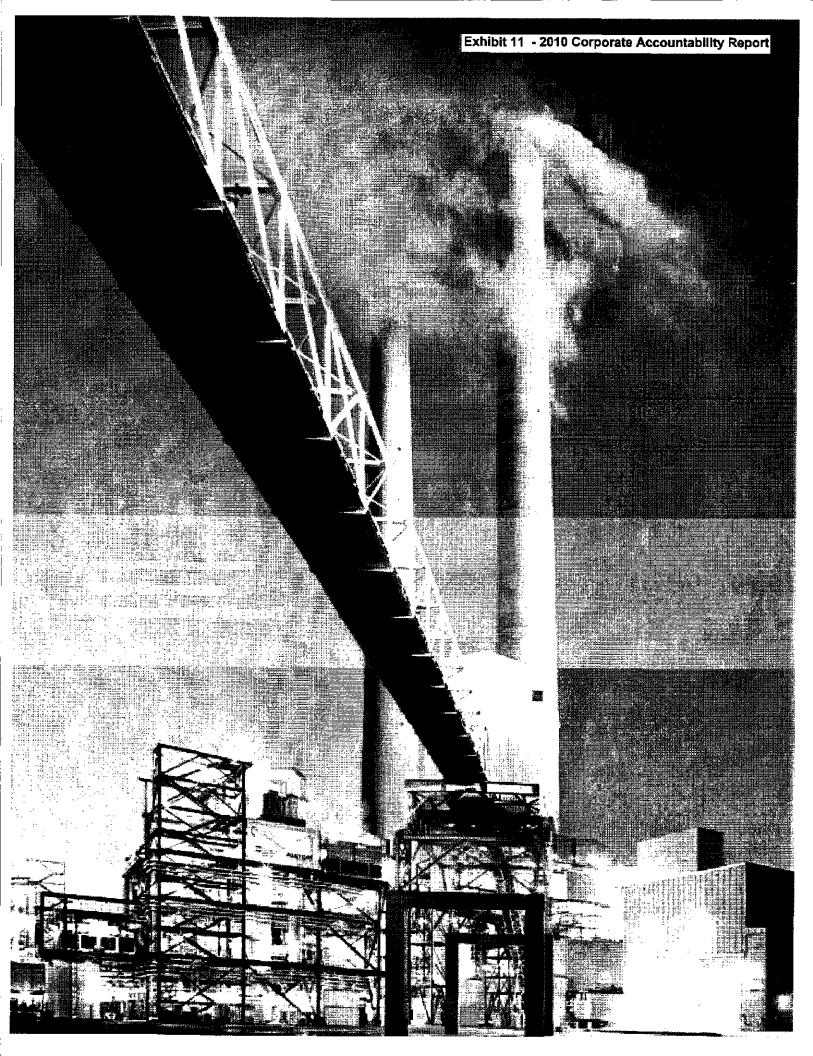
1993 - CSP and OP began operating as one company.

1999 - Ohio Senate Bill 3 initiates electric industry competition in Ohio.

May 26, 2004 – AEP reorganizes its distribution and customer service operations into seven regional utility divisions. AEP Ohio is created.

July 31, 2008 - Ohio Senate Bill 221 took effect, incorporating a system under which rates would be set by the PUCO and outlining a path for electric utilities to implement market-based pricing.

2009 – AEP Ohio was awarded \$75 million in federal stimulus funding toward its gridSMART demonstration project, which is estimated to cost \$150 million.



COMPANY OVERVIEW 2009

American Electric Power has been providing electric service for more than 100 years and is one of the nation's largest electric utilities, serving 5.2 million customers in 11 states.

Revenues (in billions)	\$13.5
Net Income (In millions)	\$1,357
Earnings Per Share	\$2,951
Cash Dividends Per Share	\$1.64
Service Territory	197,500 square miles
Transmission	39,000 miles
Distribution	215,800 miles
Generating Capacity	38,988 MW ²
Generating Stations	More than 60
Renewable Portfolio (hydro)	384 MW ³
Pumped Storage	
Renewable Portfolio (wind, solar)	1,406 MW4
Total Kilowatt-hour Sales (in millions)	195,312
Total Assets (in billions)	\$48.3
U.S. Customers (year-end, in thousands)	5,220

¹ Generally Accepted Accounting Principles

² Represents nominel capacity; includes 270 MW of mothballed / decommissioned generation, AEP's interest in Obio Valley Electric Corp., purchased power agreements and renewables

³ Excludes pumped storage; includes owned capacity and purchased power

⁴ Regulated wind and solar capacity on line or under contract

AEP's utility units operate as AEP Ohio, AEP Texas, Appalachian Power (in Virginia and West Virginia), AEP Appalachian Power (in Tennessee), Indiana Michigan Power, Kentucky Power, Public Service Company of Oklahoma, and Southwestern Electric Power Co. (in Arkansas, Louisiana and east Texas).

The company is based in Columbus, Ohio.

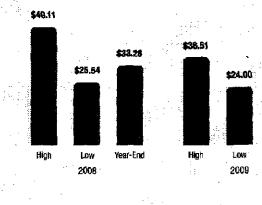


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COVER: The carbon capture unit, center left, at AEP's Mountaineer Plant in West Virginia

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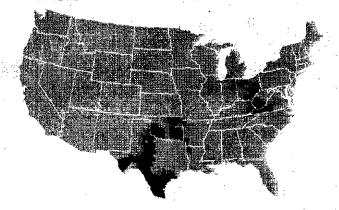




\$34.79

Year-End

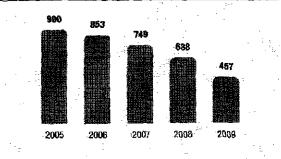




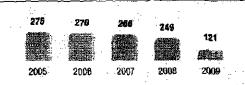
AEP ECONOMIC IMPACT 2009	
Employees (year-end)	21,673
Wages	\$1.9 billion
Construction Expenses	\$2.8 billion '
Local Taxes	\$469 million
State Taxes	\$308.7 million
Federal Taxes	\$123 million
Goods & Services (does not include fuel)	\$4.3 billion
Goods & Services from Diverse Suppliers	\$698 million
Remaining Value of All Contracts	\$4.3 billion
Coal Purchased (tons)	75.9 million
Coal Average Purchase Price (per ton)	\$49.54
Corporate Giving	\$11.8 million
AEP Foundation Grants	\$11.6 million
Economic Development Contributions	\$1.1 million

³ Includes all grants and contributions by utility units to support economic development

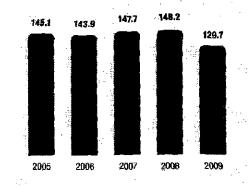
TOTAL SYSTEM - ANNUAL SO2 EMISSIONS (in thousand U.S. tons)



TOTAL SYSTEM - ANNUAL NOX EMISSIONS (in thousand U.S. tons)

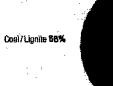


TOTAL SYSTEM - ANNUAL CO2 EMISSIONS (in million metric tons)



In 2009, AEP's CO₂ emissions decreased 12.5 percent. The decline in SO₂ and NOx emissions reflects, in part, the auccess of our environmental programs.

AEP GENERATING CAPACITY BY FUEL



Natural Gas/Oit 22%

Hydro, Wind, Solar& Pumped Storage 8%

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STATEMENT OF THE AEP BOARD OF DIRECTORS

The AEP Board of Directors has assigned the responsibility for monitoring and overseeing the company's sustainability initiatives to the Board's Committee on Directors and Corporate Governance. At two of the Committee's meetings in the past year, the Committee and company management reviewed the company's sustainability objectives, challenges, targets and progress. That Committee supported the integration of sustainability reporting with financial reporting and gave management input and guidance for the proposed approach to this corporate accountability report. It reviewed and discussed the final text of this report before recommending its approval by the full Board of Directors.

The AEP. Board of Directors has received periodic reports both from management and from the Committee on Directors and Corporate Governance about the company's sustainability initiatives. Many of the topics in this report have been the subject of active discussion at Board and Committee meetings. All members of the Board received copies of this report before it was published, and several directors made suggestions that have been incorporated into the report. Following its review, and upon recommendation of the Committee, the Board of Directors adopted a formal resolution approving the report.

The Board believes this report is a reasonable and transparent presentation of the company's plans and performance and of its environmental, social and financial impacts. The Board realizes that the company must be prepared to make frequent adjustments in response to the difficult economic and financial challenges that the nation and the regions we serve are experiencing. The Board is committed to the company's continuing efforts to increase its transparency and to its sustainability. The Board has emphasized to management that it will be evaluated by its success in executing the company's strategic plan to meet stakeholders' and the Board's expectations, including being agile in responding to changing circumstances while respecting the commitments in this report.

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LESTER A. HUDSON, JR. Presiding Director of the AEP Board of Directors April 7, 2010

A Climate of Change:

www.AEPaustainability.com

Our Progress, Our Future

ABOUT THIS REPORT

This accountability report combines AEP's Annual Report to Shareholders with its Corporate Sustainability Report. It is divided into three performance sections — Business, Environmental and Social. This printed report is supported by a website www.AEPsustainability.com — that includes significant additional data and information about AEP's performance. All performance metrics are located on the website. For more information about AEP; visit www.AEP.com

GLOBAL REPORTING INFRATIVE

We follow the GRI guidelines for reporting our performance. A complete index of performance indicators begins on Page 48. All of the data supporting these indicators ican be found on our website — www. AEPsustamability.com. We also report on electric utility industry-specific indicators.

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GIVE NS YOUR FEEDBACK

We want to hear from you. Tell us what you think about our integrated reporting approach. E-mail your comments to Sandy Nessing at *smnessing*@AEP.com.

2010 AEP Cerporale Accountability Report 🥬

A Message From The Chairman

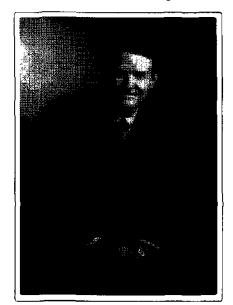
DEAR FRIENDS:

I am pleased to share with you American Electric Power's first Corporate Accountability Report. This report presents our financial, governance, environmental and social performance together for the first time. It contains information we believe to be important to all of our stakeholders in one integrated report.

During the past decade, many businesses have seen how financial, environmental and social performance are connected, and AEP is no exception. Our success is increasingly related to our ability to meet environmental responsibilities; maintain financial strength; deliver safe, reliable electricity to our customers; safeguard our work force; and deepen relationships with communities and key stakeholders. This report demonstrates our efforts to be more transparent and to integrate environmental and social risks and opportunities into everything we do.

We believe that global environmental and social forces will increasingly move corporations toward considering these issues as part of their routine business decisions. That is one reason I am pleased to serve on the executive committee of the World Business Council for Sustainable Development, to learn from and work with other CEOs around the world who share this vision of the future.

Our investors and other stakeholders are urging us toward integrated reporting, seeking more information on a much wider range of issues than ever before. We have brought various stakeholders into some of our most important business discussions. This engagement has influenced our thinking and our actions and has framed our reporting. Our quest to become a more sustainable company is continuous and reflects the efforts of thousands of people within AEP. We made progress in 2009 and are optimistic about 2010 and beyond. Our financial health is good, we expect steady growth, and our shareholders have received quarterly dividends for 100 years. We continue to provide safe, reliable and affordable electricity to our 5.2 million *customers*. We have achieved significant



new technology advancements, and we remain deeply committed to keeping people safe and healthy while successfully managing our environmental impacts.

We continue to engage and partner with stakeholders in each of our states on critical issues such as global climate change, the future of coal and energy efficiency. We have learned how we are perceived and what is expected of us, and we have created new opportunities for collaboration and business growth. We will work to strengthen these relationships, and we hope that our stakeholders will, too.

BOARD & MANAGEMENT CHANGES James F. Cordes was elected to our Board of Directors in 2009. He was formerly the executive vice president of The Coastal Corp., president of American Natural Resources Co. and chairman and chief executive officer of ANR Pipeline Co. Sara Martinez Tucker, former undersecretary of the U.S. Department of Education, president and chief executive officer of the Hispanic Scholarship Fund and regional vice president for AT&T Global Business Communications Systems, also was elected to the Board in 2009.

The independence of our Board is integral to our corporate governance. I am pleased to say that, of our 13 directors, I am the only director from within AEP.

Brian X. Tierney was named executive vice president and chief financial officer in 2009. After 41 years of service to AEP, J. Craig Baker, senior vice president – Regulatory Services, retired. Richard E. Munczinski succeeds him. These appointments were among several management changes made last year, some of which were part of our succession planning process.

FINANCIAL PERFORMANCE

In a year of many uncertainties, AEP outperformed expectations in 2009 and ended the year in a strong financial position. Our \$2.97 ongoing earnings per share were well within our guidance range. During the year, the management team demonstrated its commitment to maintaining the company's investment-grade ratings by issuing \$1.6 billion of equity. Our action was well received in the market.

We had many regulatory successes, securing \$725 million of incremental rate increases in 2009 that helped earnings by providing cost recovery for environmental compliance, tree trimming, energy efficiency programs, construction, and other operating costs. Our customers and investors also benefited as we continue to be among the lowest-cost providers of electric service while delivering a 10.4 percent total return, including reinvested dividends, to our shareholders.

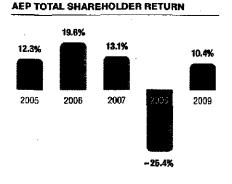
The strength of our balance sheet and our liquidity point to our financial health. We are disciplined about our operations and maintenance (O&M) and capital spending. We are moving forward in a financially responsible way, recognizing there are many demands and limited resources. Our employees did not receive merit increases in 2009. With the exception of senior leadership, whose salaries remain frozen, we will be awarding modest pay increases to most employees in 2010. As part of our commitment to being financially disciplined, we have announced a cost reduction initiative that includes reducing our work force by up to 10 percent.

We reduced our utility operation's capital budget by \$1.4 billion, from \$3.8 billion in 2009 to \$2.4 billion in 2009. We plan to hold it at \$2 billion in 2010 and 2011. Investments in new infrastructure will increase future earnings strength and potential while allowing us to provide safe, reliable electricity to our customers. Our anticipated \$2 billion in capital investments, factoring in depreciation of \$1.3 billion, create potential growth in our rate base of \$700 million.

Like many businesses, we faced financial challenges. Electricity demand was down significantly, especially among industrial customers in the metals, transportation, plastics, rubber and paper sectors. Off-system sales volumes – the excess power we sell in the wholesale power markets – dropped by half in 2009. As the economies in our service territories improve, we expect our retail and wholesale sales to recover as well.

OPERATIONAL PERFORMANCE

We had many successes in 2009, but we also did not meet our expectations in some important areas. The lowest points of the year were when two AEP employees and two AEP contractors lost their lives while on the job. Although we make efforts



to educate the public about electrical safety, nine members of the public also died after coming into contact with our electrical facilities.

There is simply nothing more important to me, and to our company, than the safety and health of our employees, contractors and the public. We missed critical safety goals, tragically, and everyone at AEP regards this as unacceptable. One reason the Board of Directors awarded no incentive compensation to me and my senior management team was because safety is a strategic goal we failed to achieve. All other employees also lost a portion of their incentive compensation.

We will learn from these experiences and take corrective and preventive actions, but the pain of these losses cannot be erased. I am determined that we will achieve our goal of zero harm. We will not settle for less; I know our employees feel the same way.

Eight employees went above and beyond the call of duty in 2009 to protect the safety of the public outside of their normal jobs. These employees demonstrated the value we place on safety, and we honored them with the Chairman's Life Saving Award.

Maintaining compliance with laws and regulations is complex and ever changing. We strive for superior performance and recognize that compliance is the correctore of everything that we do.

Our business has significant environmental impacts, and managing them responsibly is both our legal obligation and moral responsibility. We devote significant resources to compliance, we have checks and balances in place to measure our performance, and we think our overall record is excellent. We constantly challenge ourselves to be best in class, setting the bar at zero for significant enforcement actions from regulators. Given the complexities of our business, this goal is very difficult to meet, but having it helps us to ensure continuous improvement.

We were involved in five significant enforcement actions related to landfill issues and wastewater discharges in 2009, among other matters. We have learned from these events and have changed practices or procedures to prevent recurrences. Heightened regulatory focus on coal ash presents potentially significant financial and operational challenges. We must maintain beneficial use of this material or dispose of millions of additional tons of coal ash each year. We take strong measures to ensure the safe and proper operation of our coal ash impoundments. Even so, we recently



enhanced our monitoring, inspecting and auditing performance and will continue to improve these activities. We oppose classifying coal ash as a hazardous waste, but we understand and agree with the need for greater oversight. As we move toward greater certainty around federal classification of coal ash products and how

they affect our facilities, we will work with neighbors so they better understand our operations.

Our \$5.4 billion environmental investment program has resulted in the lowest emissions of sulfur dioxide (SO2) and nitrogen oxide (NOx) from our system in two decades. We will further reduce our SO₂ and NOx emissions through emissions caps we agreed to in our New Source Review consent decree. Regulators also recognize the importance of this program and have supported it in customer rates.

Our greatest success in 2009 was the commissioning of the world's first fully integrated carbon dioxide capture and storage validation facility at our Mountaineer Plant in West Virginia. Our next project is to take this technology to commercial scale at Mountaineer and we have been awarded federal funding for 50 percent of the project costs, up to \$334 million. We also will seek regulatory support and additional investment partners.

We succeeded in securing the needed permits from the U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency (EPA) for the construction of the 600-megawatt (MW) John W. Turk Jr. Plant in southwest Arkansas. Although legal challenges to our permits are pending, this ultra-supercritical coal plant will be among the most efficient coal plants in the world when it becomes operational in 2012. A new 500-MW natural gas combined-cycle plant begins operation in 2010 in Shreveport, carbon emissions, we are studying potential improvements that would allow us to increase the output of the Cook Plant while operating it safely and reliably for its extended operating life. A separate project is addressing the prospects for long-term spent nuclear fuel storage, which continues to be a concern and could challenge the plant's long-term operation.

> We rounded out our transmission strategy with the creation of AEP Transmission Co. This allows us to pursue new, on-system transmission opportunities within our service area while preserving the credit quality of our operating companies. Our vision for a national interstate extrahigh voltage transmission system, similar to our nation's interstate highway system, is unchanged. We believe the modernization of our transmission system is



The Mountaineer Plant in West Virginia is the site of the world's first integrated carbon capture and storage project.

La., to serve our customers in Arkansas, Texas and Louisiana. Both of these plants are critical to meeting the growing demand for electricity in that region and reflect our strategy to use advanced technologies and resources that lessen our carbon emissions.

Our Cook Nuclear Plant Unit 1 came back on line at reduced power at the end of 2009, which is good news for customers and the environment. It is expected to return to full power by the end of 2011, after new low-pressure turbine rotors are installed. The scope of the restoration exceeded anything previously attempted in our industry.

As we consider ways to reduce our

imperative to our nation's energy future and we are continuing to advance this vision.

Our gridSMARTSM initiative received significant support last year with additional deployment of "smart" meters and other supporting technologies in four states. Two of our companies were awarded federal aid to support these deployments, which help us learn how gridSMARTSM technology works, improve the efficiency of the grid and give our customers more control over their energy use. We set a goal to install 5 million smart meters by 2015, thereby further reducing customer demand and energy use. This will be very challenging to achieve absent regulatory support but is necessary if we want to change how consumers use electricity and to reduce demand. Therefore, we will continue to press forward.

The reliability of our system improved in 2009; there were fewer nonstorm-related outages, and they were shorter in duration. Customer satisfaction also improved.

We began evaluating the environmental, safety and health performance of our nonfuel suppliers in 2008 and extended that assessment to our coal suppliers in 2009. We conducted our first survey of coal suppliers and brought many of them together with environmental groups, regulators and community leaders for an unprecedented stakeholder meeting. It was the beginning of a dialogue on coal issues that we intend to continue.

GLOBAL WARMING

In the public policy arena, the debate about global warming continues to dominate because of the significant financial and operational implications it will have on our business and our customers, Global warming is a controversial issue, and the public policymakers and influencers in Washington, D.C., and in the 11 states we serve have conflicting views. Regardless of the debate about the science and solutions. our position on this issue has not changed. We are taking actions that make sense for AEP and our customers, such as improving energy efficiency, investing in cost-effective and less carbon-intensive technologies and evaluating our options across a range of possible outcomes.

We believe that global warming requires global action that does not disproportionately compromise American jobs or our economy, which will be the case if our trading partners do not follow and participate in a solution. We are encouraged by China's and India's participation in the discussions; it is a step in the right direction.

The U.S. EPA is moving ahead with rules to regulate greenhouse gas emissions, which would affect our power plants. We prefer a legislative solution with an economywide cap-and-trade approach, and we supported the Waxman-Markey bill approved last summer by the U.S. House of Representatives. The bill includes several provisions that would help our customers and our company transition to a lowercarbon environment, including the allocation of carbon allowances, use of carbon offsets and incentives for moving carbon capture and storage technology forward. Under EPA regulations, we would lose these benefits for our customers and shareholders. We do not support a sector-by-sector carbon bill because it would unfairly affect customers of coal-based electric utilities.

We are making progress toward achieving our goals in energy efficiency and boosting the use of renewable energy on our system. We have identified the potential for more than 900 MW of energy efficiency and demand-reduction opportunities to help meet our 2012 goal and have contracted to add 1,013 MW of renewable energy to meet a 2011 goal. These important milestones are an integral part of our carbon reduction strategy.

We are considering several options that protect the reliability of the electric system while reducing our carbon emissions. The outcome of the global climate change debate is only one factor that will drive change in how we operate our business. Other considerations include potential new or more stringent regulations on coal plants; the shift toward greater use of natural gas, including shale gas; and the age and efficiency of some of our coal-fired units. But if we are forced to move too quickly in any direction without having sufficient new resources in place, the reliability of our electricity system would be jeopardized and the economy would be imperiled.

OUR VISION FOR THE FUTURE

We believe that reliable, safe and reasonably priced energy is a key to the global economic recovery. Through our state legislatures and public utility commissions and with the collaboration of our partners and many stakeholders, AEP is helping to change the way that electricity is generated, distributed and consumed. We are at the beginning of a new era; we know that bold changes are around the corner, and we embrace them. The men and women of AEP are moving forward. We invite you to join us.

Sincerely,

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MICHAEL G. MORRIS Chairman, President & Chief Executive Officer April 2010

Leadership, Management & Strategy

We are a publicly traded electric utility that must protect and enhance the investments of our shareholders. We do this through our mission of bringing comfort to customers, supporting business and commerce, and building strong communities. Our duty is to provide reliable, safe and affordable electricity for the benefit of the public. This dual purpose is reflected in our corporate

directives, management systems and operations.

Our strategy is directed toward aligning our business, environmental and social performance. We manage this strategy by setting explicit goals and objectives in all three areas and by holding ourselves accountable for meeting them. We also have linked our environmental, social and governance disclosure to our financial reporting.

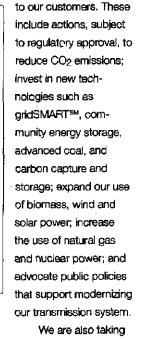
Affordable, reliable energy has been the backbone of the U.S.

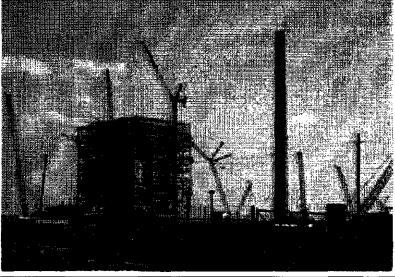
economy for decades. It will be critical to our country's economic recovery and growth. At the same time, we realize that fossil fuel emissions are a growing concern and we are weighing all of our options as we prepare for the future.

Our strategy for sustainability is grounded in a commitment to meet our customers' needs as efficiently and cost-effectively as possible without putting our shareholders at undue risk. Although the future is uncertain and there are many challenges, it is clear that the electric utility industry is at the start of a major transformation. This is a consideration in our resource planning process, from the supply side to the customer.

Global climate change is one element driving this change. We may operate fewer coal units in the future, driven by a combination of factors. These include the relative age and efficiency of certain units, carbon reduction mandates, new and more stringent environmental regulations, the to determine how much and where to invest capital and which technologies to deploy. At the same time, we have to balance the level of investment our customers are able to afford with the ability of our shareholders to earn a fair return on their investment.

The actions we are taking today will position us to meet these challenges while continuing to provide affordable electricity





The John W. Turk Jr. Plant in Arkansas will begin operations in 2012.

cost of compliance, and the potential for increased use of natural gas.

We are exploring many different technology options, such as carbon capture and storage and distributed generation. We are also weighing the possibility of retrofitting older, inefficient coal units to natural gas, preparing to operate a grid that supports energy storage and the electrification of the transportation sector, ramping up energy efficiency, modernizing the grid to enable greater use of renewable energy, and giving customers control over their electricity use.

We expect the focus will sharpen in the next couple of years. Our challenge will be

steps to ensure that we have a skilled, diverse work force and can attract and retain the best talent to build, operate and maintain today's technologies as well as the technologies of the future.

We have ongoing dialogue with many stakeholders who have an interest in or are affected by our business. These include shareholders, customers, labor, legislators, regulators, policymakers, employees, prospective employees, retirees, communities and nongovernment organizations. We will continue working with all of our stakeholders to find common ground on these critical issues.

RISK MANAGEMENT

Effective risk management enables us to respond confidently in a rapidly changing environment. From safety risks on the job to financial or operational risks that can affect the company's competitiveness, finances or reputation, risk management is an ongoing process at all levels of AEP.

The Risk and Strategic Initiatives group reviews information about our enterprisewide risks and helps the company understand the internal and external relationships that influence them. The group - produces a material risk report based on many information sources, including input from the Risk Executive Committee (REC). The REC considers existing and emerging risks and ensures that controls are in place and mitigation is taken where necessary.

While it is management's responsibility to identify and manage risks, the Board of Directors oversees and reviews the company's risk management process to help ensure that it is effective and responsive to changing circumstances. Some risks, such as changing public policy and potential systemic and catastrophic risk, are considered primarily at the Board level whereas others are delegated for consideration, oversight and recommendation to Board committees.

Under New York Stock Exchange standards and the Sarbanes-Oxley Act of 2002, the Audit Committee must discuss our policies for risk assessment and risk management, as well as risks that pertain specifically to the company's operations and controls and disclosures.

We review all risks and devote significant time and effort to managing risks that relate to our material issues. For example, if we fail to comply with North American Electric Reliability Corp. rules, we could potentially expose the bulk power supply system to reliability problems and the company to significant fines. Many business units are affected by these rules. Therefore, actions to ensure compliance are routinely monitored. The potential impact of environmental policies on our coal-fired generating plants is a material risk, and we weigh potential operational challenges such as a reliance on new technologies against potential cost increases to customers and available resources. For each risk, we consider a range of possible actions in order to assess and react to them effectively.

GOVERNANCE

AEP's commitment to being a profitable, sustainable enterprise is led by our chairman and executive management team with oversight from the Board of Directors and is embedded throughout the organization through goals, incentive plans, measurement and reporting.

The Board's Committee on Directors and Corporate Governance has direct oversight of this report and reviews the company's sustainability objectives, strategies, targets and progress. The committee provides input and guidance to management and holds it accountable for performance. The full Board adopts and issues a statement to that effect, which we publish.

Management formally reports to the Committee on Directors and Corporate Governance twice a year on our progress toward achieving the commitments in this report, but management, the full Board and each committee of the Board regularly discuss the issues that are most material and pose the greatest risk. Many of these issues are directly connected to our sustainability commitments.

The Board has emphasized that it will evaluate management by its success in executing the company's strategic plan to meet stakeholders' and the Board's expectations, including its agility in adapting to the current economic environment while respecting the commitments we make.

We are guided by values and by a set of Principles of Business Conduct that require us to operate with integrity, faimess, respect and care for others and with the highest regard for safety and the environment. All employees are bound by these principles, which also help to ensure legal compliance. A confidential 24/7 hotime allows employees to report concerns anonymously and seek guidance on ethics and compliance issues. Our goal is to *maintain a supportive working* environment in which employees know that their concerns are being addressed in a respectful and confidential manner.

Scope of This Report

This is our first integrated report, combining information about our financial performance with data on our environmental, social and governance performance. Information contained herein is largely based on calendar year 2009, with exceptions for some early 2010 data as noted. Supporting information can be found on our sustainability website at www.AEPsustainability.com or on our corporate website at www.AEP.com.

In 2009, per our commitment to stakeholders, we began reporting our progress twice a year. A full update is provided every spring. An update of key commitments is published to the Web In the fall at www. *AEPsustainability.com*.

REPORTING PRINCIPLES & GUIDANCE

AEP follows the Global Reporting Initiative (GRI) reporting principles in terms of data



quality, report content and organizational boundaries. We use the G3 guidelines as well as GRI CHECKED the GRI Electric Utility

Sector Supplement for reporting on industryspecific information. Our report is reviewed by GRI. This year's report was validated as an Application Level A, which reflects the high level of transparency in our reporting.

STAKEHOLDER ENGAGEMENT & MATERIAL ISSUES

Stakeholder engagement is an increasingly important aspect of our business processes. We conducted or participated in seven stakeholder meetings during 2009 that provided us with insight and information related to a wide range of issues that are Important to us and to our industry. These meetings helped to shape this report.

Our discussions were candid and helped us identify strategies and actions. This year we focused more deeply on specific issues, such as the future of coal.

- Our primary stakeholders are:
- Shareholders, prospective investors and lenders
- Customers, large and small
- AEP employees and retirees
- Labor unions
- Local communities
- Federal and state legislators, regulators, policymakers and other elected leaders
- Prospective employees
- Suppliers and others doing business with AEP
- Nongovernment organizations
- · Professionals in industry, government, labor and academia

We define issues material to our sustainability as those that: 1) have or may have a significant impact on the company's finances or operations; 2) have or may have a significant impact on the environment or society, now or in the future; or 3) can substantially influence the assessments, decisions and actions of our stakeholders. and shareholders. This report reflects those issues we consider material to our business. For the first time, internal auditors audited the printed report for reliability and consistency.

Financial Performance: Our ability to manage business risks and to maintain a strong financial foundation allows us to deliver returns to our shareholders; provide safe, reliable electricity to our customers; and deliver broader economic, environmental and social benefits to society.

Energy Security, Reliability & Growth:

Our electric generation and delivery systems must be modern, reliable, and able to handle a diverse fuel supply as well as diverse technologias. They also must keep pace with customer demand. Collaboration with others is essential to create and maintain these systems and to ensure adequate and timely cost recovery.

Public Policy: We must actively engage legislators, regulators, policymakers and other stakeholders to ensure that public policy, laws and regulations enable us to continue to serve our customers. compensate our shareholders and pursue our vision for sustainability.

Environmental Performance: Although environmental laws and regulations are complex and changing, we are committed to compliance at all times. Our challenge

is to achieve compliance, to go beyond compliance when we can, to reduce our impact on the environment and to improve the economic well-being of our communities.

Global Climate Change: AEP has a major role to play in addressing global climate change, including bringing advanced coal and other technologies to commercial scale, securing access to large-scale renewables through transmission development and increasing energy efficiency through our oridSMART^s initiative. Our company's and our customers' economic well-being requires us to work cooperatively with regulators and policymakers, our stakeholders and our communities to reach a reasonable global solution that will protect the environment and foster economic growth.

Work Force: Protecting the safety and health of our employees and contractors and reducing the severity of work-related injuries and illnesses is a core value. We seek a skilled, diverse and highly motivated work force to support all aspects of our business.

Stakeholder Engagement: All of the material issues and risks we face and our well-being as a company increasingly depend on working closely with our stakeholders, disclosing our intentions, reporting on our performance and engaging in active and forthright dialogue.

CONTACT INFORMATION

For information about this report, the GRI information on our website or AEP's sustainability initiatives, please contact Sandy Nessing at smnessing@AEP.com or Jerra Thomas at jmthomas2@AEP.com.

www.AEPsustainability.com

AEP Board of Directors



Left to right: Ralph D. Crosby, Jr., Lone, L. Nowell III, James F. Cordes, Linda A. Goodspeed, Dr. Donald M. Carlton, John F. Turner, "homas E. Hoaglin, Sara Martinez Tucker, Dr. Lester A, Hudson, Jr., Dr. Kathryn D. Sullivan, E.R. Brooks, Dr. Richard L. Sandor, and Michael G. Morris.

Michael G. Morris Age 63: Elected 2004 Chairman, President and Chief Executive Officer E. P	E.R. Brooks Granbury, Texas Age 72; Elected 2000 Retired Chairman and Chief Executive Officer. Central and South Wes: Corp A, D, P	Dr. Donald M. Cartion Austin, Texas Age 72; Elected 2000 Retired President and Chief Executive Officer, Radian International, LLC H. N. P	James F. Cordes The Woodlands, Texas Age 69: Elected 2009 Retired Executive Vice President, The Coastal Corp. H. P	Ralph D. Crosby, Jr. McLean, Va Age 62: Elected 2006 Chairman and retired Chief Executive Officer. Eads North America. Inc. H, N, P	Linda A. Goodspeed Franklin, ferin Age 48: Elected 2005 Vice President, Information Systems, Nissan North America A, N, P	Thomas E. Hoaglin Columbus, Chip Age 60: Elected 2007 Ret red Chairman and Chief Executive Officer, Humington Bandshares, Inc. D. E, H, P
Dr. Lester A. Hudson, Jr. Charlotte. N.C Age 70; Elected 1987 Professor, McColl School of Business, Queens University of Charlotte D. E. H. P	Lionel L. Nowell III Cos Cob, Conn. Age 55: Elected 2004 Retired Senior Vice President and Treasurer, Pepsico, Inc. A. D. E. F. P	Dr. Richard L. Sandor Chicago, III. Age 68: Elected 2000 Chairman: Chicago Climate Exchange, Inc. E, F. P	Dr. Kathryn D. Sulliven Columbus, Ohio Age 58; Electec 1997 Director, Battelle Center for Mathematics and Science Education Policy, John Glenn School of Public Affairs, The Ohio State University F, N, P	Sara Martinez Tucker San Francisco. Calif. Aye 55: Elected 2009 Former Undersecretary, U.S. Department of Eloucation, and former President and Chief Executive Officer, Hispanic Scholarship Fund D, F, P	John F. Turner Moose, Wyo. Age 68; Elected 2008 Managing Partner, Triangle X Ranch, and former Assistant Secretary, U.S. State Department A, N, P	Committees of The Board: The chairman is listed in (). A – Audit (Nowel) D – Directors and Corporate Bovernance (Hoaglin) E – Executive (Morris) F – Finance (Sandor) R – Human Resources (Hudson) N – Nuclear Oversignt (Suilivan) P – Policy (Carlton)



Business Performance: Financial

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AEP generates, transmits and distributes electricity to businesses and homeowners through an interconnected system that operates in several regions of the country. We also sell power to the wholesale electricity market, including other utilities, municipalities and cooperatives. The rates we charge customers are set by state and federal regulators and are primarily based on the cost of operating the system to provide this service. The rate-setting process gives us the opportunity to earn a reasonable return for our shareholders on prudently incurred investments and to recover our expenses.

One of our central business challenges is to meet our obligation to serve while obtaining recovery of our operating and capital costs — for fuel, environmental compliance, energy efficiency programs, labor, construction and other costs — as soon as possible and to earn returns that are acceptable to our shareholders. In recent years, we have succeeded in recovering costs in a more timely manner through approximately 100 rate adjustment mechanisms approved by regulators across our 11 states. These mechanisms increase our revenues to cover our costs and improve our cash flow.

In order to keep up with customer demand, comply with government environmental mandates, and improve the efficiency and reliability of our system, we invest in new or replacement equipment and technology. Our capital investments

EARNINGS PER SHARE (GAAP)

\$2.73	\$3.43	\$2.96	incluces SD 42
			cilutive effect of additional shares issued April 2009
2007	2008	2009	

constitute a large part of our business and financial condition. Our financial success is based on our ability to obtain capital on favorable terms, which in turn depends on access to the capital markets, the strength of our credit ratings, and prudent management of our balance sheet.

Much of our capital investment is related to environmental protection. We are nearing completion of a \$5.4 billion environmental program to retrofit nearly three-quarters of our coal-fired power plants with controls to reduce nitrogen oxide (NOx) and sulfur dioxide (SO₂) emissions to comply with the Clean Air Act Title IV regulations, the NOx State Implementation Plan, and the Clean Air Interstate Rule, As a result, our SO₂ and NOx emissions are at their lowest levels in two decades. We are also developing advanced coal technologies, including carbon capture and storage, to meet anticipated carbon emissions mandates, and are investing in "smart grid" technologies to improve the efficiency and operational abilities of our system and to give customers more control over their energy use.

In general, we consider our overall

financial performance to be successful if we can provide a reasonable rate of return to our shareholders, receive timely and appropriate cost recovery from regulators, and keep electricity affordable for our customers.

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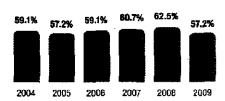
2009 OVERVIEW

AEP had good financial results in 2009, despite the effects of the recession and abnormal weather. During the year, we initiated steps to reduce debt, maintain strong credit ratings, ensure access to capital markets, control costs and improve our cash flows.

Our GAAP (Generally Accepted Accounting Principles) earnings per share totaled \$2.96. Our debt ratio improved from 62.5 percent of total capitalization at the end of 2008 to 57.2 percent at year-end 2009. This debt-to-capital ratio improvement was due to a \$1.6 billion equity offering, debt reduction, and enhanced discipline in our capital expenditure program.

Shareholders earned a 10.4 percent total return (including reinvested dividends) on their overall investment in 2009. AEP and the electric utility sector did not perform as well as the broader market last year, but our

TOTAL DEBT/ CAPITALIZATION (GAAP)



Total circuit miles of 765-kV transmission lines

2,116

Years AEP has been paying dividends Miles of overhead and underground distribution lines in 11 states

215,800

Million customers in 11 states

5.2

company and the overall market showed dramatic improvement from the unfavorable returns of 2008.

AEP's contribution to local economies is important, especially during difficult economic times. In most communities where we operate power plants, for example, we are the largest or among the largest employers, and these communities benefit from the substantial tax revenue we provide. At the end of 2009, we employed 21,873 across our system, and we paid \$901 million in federal, state and local taxes.

THE IMPACT OF THE RECESSION

Our revenues come from three primary components: 1) oustomer electricity usage, 2) retail customer electric rates, and 3) wholesale off-system sales.

The recession hit many of our customers hard in 2009, particularly our industrial customers, and resulted in lower sales for the year. Despite our customer counts remaining stable, we experienced a moderate decline in residential and commercial sales from 2008 but much sharper decreases in industrial sales, which were off 16 percent. Half of that decline was the result of cutbacks or shutdowns for 10 of our largest metal-producing customers. in addition, our sales of electricity in the wholesale market dropped by approximately half in 2009.

The recession adversely affected our fuel inventory costs and related carrying costs. When our power plants run less than we plan during the year, we often end up with an imbalance between the fuel we bought and what we need. Our primary fuel is coal, and our coal consumption declined 14 percent from 2008. This caused coal inventories to increase beyond what was needed at our power plants, particularly at our coal plants in the eastern part of our service territory, where demand was down the most. We worked with our coal suppliers to better match deliveries with consumption in the future.

Weather was also a factor. Cooler than normal summer weather affected sales as

customers needed less electricity for air conditioning. Damage to our system from storms, although generally recoverable in rates, also was significant.

The effect of the recession varied from one region to another, which in turn affected our operating companies differently. In our AEP East states, where we serve approximately 3.3 million customers, economic output declined 5 percent, sending the unemployment rate into double digits. Residential and commercial kilowatt-hour (kWh) sales declined from 2008, even after adjusting for weather. Revenues were up because of rate increases associated with fuel and capital investments. None of the eight largest industrial sectors we serve in this region increased their electricity use in 2009. Our AEP East footprint consists of portions of Indiana, Kentucky, Michigan, Ohio, Tennessee, Virginia and West Virginia.

In our AEP West footprint, where we serve 1.9 million customers, the impacts varied. AEP Texas, a wires-only business, had lower residential and commercial kWh



JOE HAMROCK

President & chief operating officer, AEP Ohio

"After more than 100 years of serving our customers and returning dividends to our shareholders, we continue to adapt to the changing needs of all stakeholders. Today, more than ever, innovation is at the core of AEP's ability to meet the rapidly changing needs of modern society. Through game-changing initiatives such as the Mountaineer carbon capture and storage project and our gridSMARTSM programs, the men and women of AEP are finding new ways to meet customer needs with ever cleaner and more reliable methods of producing and delivering electricity."

LIQUIDITY SUMMARY (in millions)

	Amount*	Maturity
Revolving Credit Facility	\$1,500	March 2011
Revolving Credit Facility	\$1,454	April 2012
Revolving Credit Facility	\$627	April 2011
Total Credit Facilities	\$3,581	
Plus		
AEP, Inc. cash and investment	nts \$490	
Less		
Commercial Paper Outstandi	ng (\$119)	
Letters of credit issued	(\$568)	
Net Available Liquidity	\$9,384	
*Actual Dec. 31, 2009		

consumption in 2009 but higher revenues due to rate increases. While industrial kWh consumption was down nearly 5 percent in Texas, the largest sector — petroleum refineries — was up slightly from 2008.

Southwestern Electric Power Co. (which operates in Arkansas, Louisiana and Texas) and Public Service Company of Oklahoma had mixed impacts from the recession. Residential and commercial kWh consumption was higher in 2009, on a weather-adjusted basis, and rate increases caused nonfuel revenue growth to out-pace growth in kWh sales. Industrial sales fell 16 percent, however.

The decline in electricity consumption and other factors had a positive environmental benefit. Our emissions of carbon dioxide, SO₂ and NOx in 2009 were all lower than in 2008.

CUSTOMER RATES & COST RECOVERY

In the traditional utility model, a company such as AEP invests capital and operates fixed assets in order to provide electric service. In return, the utility is allowed to earn a reasonable rate of return on its investment while recovering its expenses on a timely basis. Rate increases are essential to maintain the reliability of the system, comply with environmental regulations and cover increases in operating expenses. As these costs are recognized by our operating companies, we routinely file rate cases in each jurisdiction to earn a fair return on our investments and recover our costs.

We received incremental rate increases in 2009 totaling \$725 million for investments made and costs incurred across most jurisdictions. Our regulatory risk is diversified because we operate in multiple jurisdictions.

FINANCIAL PERFORMANCE

In 2009, our net income (before discontinued operations and extraordinary loss) was \$1.370 billion compared with \$1.376 billion in 2008. We ended 2009 with a cash balance of \$490 million versus \$411 million at the end of 2008, primarily as the result of favorable tax treatments. We issued \$2.3 billion in long-term debt to pay for our 2008 draws on credit facilities, fund our construction program and refinance debt maturities. These refinancings, combined with our issuance of 69 million shares of common stock, supported our investment-grade ratings and increased our financial flexibility.

We raised more than \$4 billion in debt and equity capital and kept our capital expenditures within our \$2.5 billion budget, excluding allowances for funds used during construction, which represented a 38 percent decrease from 2008 capital spending. We expect to reduce total system capital expenditures in 2010 to \$2.2 billion. Investing capital to build infrastructure, in excess of annual depreciation, increases our earnings potential.

The weak economy and weatherrelated loss of customer demand resulted in a revenue decrease of \$265 million in 2009.

CONSOLIDATED INCOME BEFORE DISCONTINUED OPERATIONS & EXTRAORDINARY LOSS (In millions)



Lower demand in the retail and wholesale markets also resulted in excessive coal inventories and a 50 percent reduction in off-system sales volumes --- the electricity we sell in the wholesale power market.

UTILITY OPERATIONS

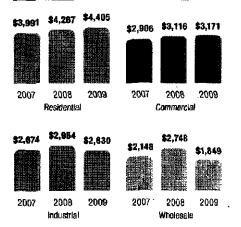
Utility Operations account for most of AEP's business, including the generation, transmission and distribution of electric power to retail and wholesale customers and others. Income from Utility Operations (before discontinued operations and extraordinary loss) increased from \$1.1 billion in 2008 to \$1.3 billion in 2009 primarily due to rate increases that reflect increased capital investment to provide electricity to our customers. The weak economy, higher depreciation expense, lower customer usage, and higher interest expense due to the additional debt we issued partially offset the increase.

AEP RIVER OPERATIONS

Our River Operations business transports coal and dry bulk commodities primarily on the Ohio, Illinois and lower Mississippi rivers. It is the second-largest full service, dry-bulk carrier in the nation. AEP River Operations' commercial income decreased from \$55 million in 2008 to \$47 million in 2009 primarily due to lower rates and volumes resulting from a weak import market.

In 2009, our fleet of 2,984 barges,

UTILITY REVENUES BY CLASS (in millions)



66 towboats and 22 harbor boats delivered more than 70 million tons of cargo, of which 32.8 million tons were commercial and 37.5 million tons were coal and consumables for our power plants. This compared with more than 33.9 million tons of commercial freight and 35.3 million tons for the power plants in 2008.

GENERATION & MARKETING

Our Generation and Marketing business includes nonutility generating assets and a competitive power supply and energy tracing and marketing business. Income decreased from \$65 million in 2008 to \$41 million in 2009 mainly due to lower gross margins at the Oklaunion Power Station in Texas. This reflects lower power prices in the Electric Reliability Council of Texas region and decreased generation from our wind farms.

ALL OTHER BUSINESS OPERATIONS

Income from all other business operations (before discontinued operations and extraordinary loss) decreased from \$133 million in 2008 to a loss of \$47 million in 2009. Part of this disparity was due to the receipt in 2008 of \$164 million in after-tax income from a litigation settlement of a purchase power and sale agreement.

2010 OUTLOOK

As the economies in our service territories improve, we expect our retail and wholesale sales to recover as well.

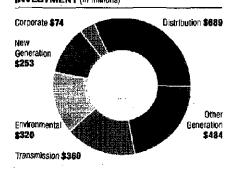
One of our main objectives in 2010 is to obtain rate increases that are fair to both our shareholders and our customers. We are seeking rate relief of approximately \$320 million across our system this year; by the end of 2009, we had already received approval for half of that amount.

We anticipate our Board of Directors will declare our 400th consecutive quarterly dividend in April 2010, marking 100 years of paying dividends to our shareholders.

We are committed to maintaining our credit quality and managing our liquidity conservatively. In 2010, we intend to access the debt capital markets for approximately \$1.2 billion and renew our \$1.5 billion core credit facility that is due in March 2011.

We are disciplined about our capital and operations and maintenance spending. We are moving forward in a financially responsible way, recognizing there are many demands and limited resources. As part of

2010 PROJECTED CAPITAL INVESTMENT (In millions)



Excludes AFUDC and Joint Venture Transmission Projects

our commitment, we have initiated a cost reduction program that includes reducing our work force by up to 10 percent.

We anticipate spending \$2.2 billion in capital in 2010, including approximately \$1.4 billion on our base operations. The capital program is highlighted by the following initiatives:

- New Generation (\$253 million): Completion of the Stall Plant in Louisiana and continued construction of the Turk Plant in Arkansas;
- Environmental (\$320 million): This includes scrubber projects at our Amos Plant in West Virginia and Conesville Plant in Ohio, and associated projects such as landfills, among other projects;
- Transmission (\$360 million):
 \$240 million will be invested in our operating companies and approximately
 \$120 million through our new transmission company, AEP Transmission, which will operate within our existing retail service areas;
- gridSMART[™] (\$95 million): investments will be primarily related to projects in Ohio, Texas and Oklahoma. ■

Business Performance:

Energy Security, Reliability & Growth

66 Having the real-time reporting means I can actively monitor which items in my house are the worst energy consumers and do something about them, right there. 99

Paul Ross. gridSMART^{5M} pilot participant, South Bend, Ind.

Approximate number of customer calls handled each day

50,000

Million times customers logged in to conduct business online Customers in AEP Ohio's gridSMARTSM Demonstration Project

110,000

Consumption of natural gas in billions of cubic feet in 2009

96

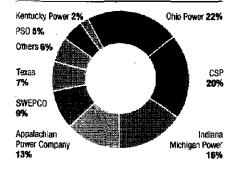
Our business is to produce electricity and deliver it over high-voltage power lines to lower-voltage lines that transport it to our customers. We have a responsibility to deliver electricity to our 5.2 million homes and businesses safely, reliably and cost effectively. While the system we operate is complex and aging, it is vital to the economy and to our quality of life.

Demand for electricity is growing despite energy efficiency programs, largely due to population growth and the rising number of electronic appliances, industrial equipment and other devices that people rely on for everything from entertainment to health care. Although the pace of growth has slowed due to the recession, we must plan for these needs. As the demand for electricity increases, so does the expectation that we will deliver power wherever and whenever it is wanted. We invest significant resources in equipment and processes to meet that expectation.

We use a variety of fuels to reduce emissions and to ensure reliability. Coal is our primary fuel because it is a low-cost, abundant, reliable and secure domestic resource that is often located near our power plants. We also use nuclear, wind, hydro, natural gas, biomass and solar power to generate electricity.

We have begun to lay the foundation to transform our energy delivery system to emit fewer emissions, improve efficiency and reliability, give customers more control over their usage and costs, and ensure energy security. This foundation is being built through our gridSMARTsM initiative, construction of power plants, diversification of our resources and investments in transmission and advanced coal technologies.

2009 OPERATING COMPANY EARNINGS CONTRIBUTIONS



CSP (Columbus Southern Power) PSO (Public Service Company of Oklahoma) SWEPCO (Southwestern Electric Power Co.)

ENERGY SECURITY

Ensuring an adequate supply of energy at any given time requires determining the demand for power today, anticipating shortterm demand in the days and weeks ahead, and predicting long-term demand in the years to come. The stakes are high in getting this right because of the significant capital and construction costs of new power plants and transmission and distribution systems, not to mention the time it takes for siting new infrastructure and getting regulatory support for cost recovery. Underestimating future demand could create power constraints and higher rates for customers as we scramble to secure power in a tight market. Overestimating demand could burden customers with paying for unneeded and underused infrastructure.

Planning for long-term generation is complicated by the potential for legislative and regulatory actions on climate change (see *Climate Change*). We are uncertain about these possibilities and related future costs. Current environmental regulations are also in a state of flux and could change the way we produce or transmit electricity. It is therefore difficult to determine with certainty whether we can meet future demand with our own generation or will need a combination of our own generation and electricity we purchase.

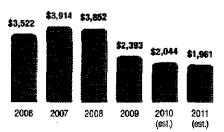
We are developing tools that will help inform this planning process. One component of our gridSMARTSM initiative will allow us to evaluate our infrastructure needs from the power plant to the customer meter. This technology, known as a virtual power plant, helps us to better understand what we will need if we are to deploy a robust smart grid system. It also will allow us to modernize the grid cost-effectively by showing us what we need or don't need.

We already have some generation projects under way that anticipate a lowercarbon future, including the 600-megawatt (MW) John W. Turk Jr. ultra-supercritical coal plant under construction in southwest Arkansas, which is scheduled to be in service by late 2012. The plant was designed to allow for the future installation of carbon capture and storage technology. Read more about this plant in *Climate Change*. Work also continues on the J. Lamar Stall Plant, a 500-MW natural gas combined-cycle facility in Shreveport, La., that will begin operation in 2010. Our use of natural gas has steadily increased as our gas generation has grown; we consume approximately 100 billion cubic feet per year. Between 2005 and the end of 2010, we will have added 4,600 MW of natural gas to our system, further diversifying our fuel mix.

The Federal Energy Regulatory Commission (FERC) granted a 30-year extension of the license for the Smith Mountain 586-MW pumped storage hydroelectric plant on the Roanoke River in Virginia in December 2009. We worked closely with area groups, communities and regulators to address concerns about water level, shore erosion, sediment and endangered species. Hydroelectric power is an important part of our resource base; we operate 16 hydroelectric plants plus Smith Mountain's pumped storage facility on six rivers in five states, generating approximately 1.549 gigawatt hours (GWh) each year. Approximately 940 GWh of that is free of carbon emissions.

Energy security is increasingly important as we become a more energy-





dependent nation and seek to guard ourselves against the threat of intentional harm. Like all other utilities, AEP is subject to new grid reliability and security compliance standards enacted by the North American Electric Reliability Corp. (NERC), which has been designated by the FERC to ensure grid security. About two-thirds of our power lines and nearly half of our substations are subject to NERC regulations. Although the bulk of NERC standards apply to our Transmission operations, our Generation, Shared Services and Commercial Operations business units are also subject to NERC oversight.

NERC has identified three areas of high risk to the grid: managing the growth of trees or shrubs that could cause outages; system protection and controls, such as maintaining relays, batteries and related equipment critical to the grid; and Critical Infrastructure Protection (CIP). CIP entails ensuring that critical installations such as control centers and substations are secure from tampering or unintentional damage. New CIP standards went into effect Jan.1, 2010, that significantly increase the number of AEP facilities subject to stricter complience from a handful to approximately 100. For example, these new standards require more controlled access to critical facilities and stricter controls on the ability to manage certain transmission assets remotely. The intent is to prevent either intentional or unintentional actions that could compromise the nation's bulk power system.

We self-reported grid security-related compliance violations that occurred in 2009 to NERC and expect to pay fines of less than \$100,000. Our chairman has since emphasized to all employees the importance of maintaining the security of the bulk power system. If we fail, we could jeopardize system reliability, create financial risk, affect other regions of the country and harm our reputation.

As we add advanced communications capabilities to our system, grid security becomes a more significant and challenging issue. Using U.S. Department of Energy (DOE) grant money from the Ohio gridSMARTSM project, we plan to develop a Cyber Security Operations Center, the first of its kind in the industry. It will correlate multisource public and private



HELEN MURRAY

President & chief operating officer, Indiana Michigan Power Co.

"Today's customers have higher expectations for the reliability and security of energy delivery systems, and that means we must find creative solutions. The gridSMARTSM project implemented in South Bend; Ind., is an excellent example of how innovative ideas will help us meet customer expectations now and in the future."

data and provide threat and risk mitigation information. The data will allow us to identify system vulnerabilities and help prevent network exploitation.

We conduct spot checks of our NERC-related compliance, meet with managers regularly and provide training to all employees to help ensure compliance with NERC rules.

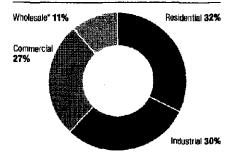
Our recent efforts to enhance grid security include co-founding the Transmission Forum, which will develop transmission security and operations standards, identify best practices and provide support to members in a manner similar to what the Institute of Nuclear Power Operations does for the nuclear energy industry.

ENERGY GROWTH

AEP remains committed to developing an extra-high voltage (EHV) transmission "superhighway" that would facilitate the movement of power among regions of the country. This system would reduce congestion and costs and enable the transmission of renewable power such as wind and solar from where it is generated to where it is needed. We believe that widespread use of renewable energy depends on the ability of the transmission system to transport it.

One way we are tackling this is through a collaborative effort to develop a master plan for transmission that supports the development of renewable energy in the Midwest and enables its delivery to consumers. Electric Transmission America (ETA), a joint venture between AEP and MidAmerican Energy Holdings Co., along with five other utilities and transmission operators have begun a comprehensive study of the transmission system in the

2009 RETAIL LOAD



*Whotesale includes sales to municipal and cooperative power systems, other wholesale, and miscellaneous retail sales

upper Midwest. Called the Strategic Midwest Area Transmission Study, it will identify the transmission needed to harvest the vast clean energy resources in areas such as Minnesota, the Dakotas and Iowa.

Phase 1 of the study focuses on determining the most reliable alternatives based on predetermined metrics. It will be completed this spring. Phase 2 will measure the economic and societal benefits and is due to be completed this summer.

The sponsors of the study believe that an EHV transmission network in the upper Midwest will provide significant economic, environmental and reliability benefits by ensuring access to new generation sources and strengthening the transmission system in the heart of the nation. This study is part of a process we started in 2008 to develop an EHV transmission system in that region.

We formed a wholly owned transmission company to facilitate capital investment within our service areas. The AEP Transmission Co. (AEP Transco) will construct, own and operate only new transmission assets. By setting up a separate company with its own capital structure, we will relieve some of the financing burden on our operating companies because the transmission company ultimately will be able to finance transmission projects on its own. The transmission company already has filed a proposed rate structure with the FERC.

AEP's Transco is just one part of our transmission strategy. We have entered into several joint ventures with other utilities, including two joint ventures with MidAmerican Energy, ETA and Electric Transmission Texas (ETT), to build transmission.

Although the Potomac-Appalachian Transmission Highline project, a joint venture with Allegheny Energy, had filed permits with Maryland, West Virginia and Virginia for permission to build the line, we withdrew the Virginia request in January 2010 based on new information from the regional transmission operator, PJM Interconnection. The grid operator said that preliminary studies showed the line would not be needed in 2014, as originally planned, because of reduced demand brought on by the recession and energy efficiency projects. We plan to resubmit the request when the results of PJM's formal planning process warrant the line.

ENERGY RELIABILITY

Our electric generation and delivery systems must be modern, reliable and able to handle diverse fuels and technologies. They also must be able to keep up with customer demand.

Overall reliability, as recorded by the average number and duration of sustained outages on our distribution system, improved systemwide in 2009.

Rather than focusing on single-year numbers, we have begun using a three-year rolling average, which evens out weatherrelated outages. We believe this is a more meaningful measure that better reflects changes in the overall status of the system. The three-year SAIFI average was 1.470 in

THREE-YEAR ROLLING AVERAGE SYSTEMWIDE RELIABILITY PERFORMANCE

	2005	2006	2007	2008	2009
SAIFI	1.502	1.527	1.547	1.526	1.470
saidi ²	210.8	202.9	198.9	201.0	198.1

System Average Interruption Frequency Index is the average number of interruptions a customer experiences.
System Average Interruption Duration Index is the average outage duration for each customer served.

2009, compared with 1.526 in 2008. The SAIDI average was 198.1 in 2009 versus 201.0 the previous year.

Distribution — the infrastructure and the processes that deliver electricity from high-voltage transmission lines to customers' homes and businesses continues to improve as we develop better tools and processes to manage our system. Several challenges remain, however.

AEP is more than 100 years old, and many of our assets are at or near the end of their useful and depreciable life. For example, we have more than 5 million distribution poles in service, some of which are more than 40 years old, increasing the likelihood of failure when stressed by wind, snow or ice. To prevent this, we have a pole inspection program to continually evaluate the status of all distribution poles. In addition, 21 percent of our distribution station power transformers and 22 percent of our distribution line transformers are beyond their expected operational life. New, higher efficiency equipment is available that we will use to begin replacing these aging assets while also achieving demand and, energy efficiency goals.

Our generation and transmission businesses face similar challenges as equipment ages.

We conduct regular operational risk audits in our Generation business unit to assure equipment reliability, as well as inspecting, testing and monitoring equipment. However, at no time are we compromising safety and health. We also formed an aging asset task force to develop a long-term plan to address the issue in each state in our service territory.

New tools and processes enhance our ability to manage the system. For example, we began using a Line Equipment Analysis Device (LEAD), an electronic "sniffer" developed in our own labs, that detects interference caused by cracked insulation or other difficult-to-detect failures. Combined with GPS technology, this allows crews to check the status of equipment more easily and accurately by driving along our lines. The LEAD can find electrical "leaks" that the human eye cannot, providing us with advance warning about potential imminent failure.

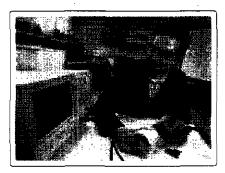
Preventive vegetation management is critical to reliability and is one of the most proactive measures we take to reduce interruptions. Public Service Company of Oklahoma and AEP Ohio adopted fouryear trim cycles, and similar requests have been submitted for Kentucky Power, the Texas portion of SWEPCO and in Michigan. In the long run, scheduled tree trimming is more cost effective and provides greater reliability than simply responding to overgrown vegetation. Cutting vegetation once it is entangled in lines requires more time while increasing the risk of injury and customer outages.

Following an employee-led study of outages, we also adopted new maintenance procedures within breaker zones that should lead to increased reliability. The study team determined that breaker zones — the initial 2-to-6-mile segment of a main line coming from a substation before it branches off account for 35 percent of the sustained interruptions per customer because outages in those areas affect a large number of customers beyond the interruption. By better maintaining breaker zones, we have been able to improve reliability significantly for more customers.

Early in 2010, ETT, a joint venture between AEP and MidAmerican Energy Holdings Co., completed installation of a storage technology that will enhance grid reliability in Presidio, Texas, a small town on the Mexican border. The 4.8-MW sodium sulfur, or NaS, battery is part of a \$67 million transmission project to improve grid performance in a remote portion of the state. This is the largest use of battery storage in the nation.

By the end of 2010, we will have installed a total of 11 MW of NaS battery storage in Indiana, Ohio, Texas and West Virginia. NaS battery technology provides up to eight hours of backup power in the event of a transmission failure and also improves power quality. However, NaS technology has become more expensive compared with other storage technologies and we do not plan further installations at this time. The Presidio battery and substation cost approximately \$23 million.

Future storage projects will center on community energy storage, which



AEP engineer Jason McCullough holds a patent on the LEAD fault detector.

uses lithium-ion battery technology. That technology is expected to become less expensive as the batteries become widely used in Plug-in Hybrid Electric Vehicles (PHEV). Read more about this in *Climate Change*.

GRIDSMART™

AEP launched an initiative called gridSMART[™] in 2007. It is designed to give customers greater control over their energy usage and ultimately their bills; improve the efficiency of the electric grid; reduce overall demand, energy consumption and emissions; and improve customer service and internal efficiencies. The technology is still in the pilot stage, but we expect to achieve all of our goals once it is fully deployed.

The initial gridSMART[™] pilot began in 2009 in South Bend, Ind., and confirmed much of what we expected. Among the major insights we learned:

- The technology that allows AEP to manage its grid from our back office systems, such as billing, to the meter and distribution field equipment works. But the technology that goes beyond the meter into the customer's home is still evolving.
- Customers who participated in the timeof-day rate plan did shift their demand to different times, as expected.
- Cost savings from better system management, fewer crew trips, reduced fuel consumption, better theft detection and streamlined billing are being achieved.
- During the cooling season, customers who volunteered allowed us to raise the temperature in their homes using a programmable, communicating thermostat, demonstrating that we can control customer usage directly between the meter and the home through wire-



AEP is using Plug-in Hybrid Electric Vehicles to validate their performance and see how they will affect our system.

less technology.

 Greater education of consumers will be needed in future projects.

The year-long South Bend pilot involved approximately 10,000 meters and was to end after the 2009 cooling season, but it has been extended to include the 2010 cooling season because of some early technical problems.

A larger and more comprehensive gridSMARTSM demonstration project involves 110,000 customers in central Ohio. Paid for in part with a \$75 million grant from the DOE, the \$150 million project will include smart meters, distribution automation equipment to better manage the grid, community energy storage devices, smart appliances and home energy management systems, a new cyber security center, PHEVs, and installation of utility-activated control technologies that will reduce demand and energy consumption without requiring customers to take action.

This technology is known as integrated voltage/VaR control, a form of voltage control that allows the grid to operate more efficiently. By controlling voltage more accurately, we estimate that we can reduce demand by approximately 2 percent to 3 percent, and energy that is needed to

serve existing customer loads by 3 percent to 4 percent. This allows us to achieve both demand and energy reduction goals.

Mater installation began in December 2009, and installation of utility-activated voltage/VaR control technologies and distribution automation equipment will begin this year.

Working with major appliance manufacturers, we are also testing smart appliances - devices that react to signals from the grid about price and demand -in our Dolan Laboratory in Groveport, Ohio. In the Ohio pilot, we will deploy smart appliances in select homes to determine how they work. Based on the parameters that the homeowner sets, the dishwasher may not run until 7 p.m., after the demand for power has decreased, or the refrigerator may postpone a defrost cycle until the evening, when demand - and prices - are lower. Smart appliances have the potential to help residential customers save energy and money and for utilities to save fuel and reduce emissions.

PHEVs, which many expect to be widely used in the future, will also be part of the Ohio pilot. Read about gridSMARTSM initiatives in Oklahoma and Texas at www.AEPsustainability.com.

Our gridSMARTSM initiatives support our goal to install 5 million smart meters in our service areas by 2015. This goal will be impossible to achieve without regulatory support in all states. However, we believe this initiative is critical to modernizing the electricity delivery system, reducing demand and changing how customers use electricity. Therefore, we will continue to deploy these technologies where regulators are supportive. ■

Business Performance: Public Policy

66 We are the most imaginative people in the industry and the cost of energy is one of, if not the most important, cost in doint outsiness these days. We must stay competitive in this world or we can be served. We need a fair playing field with all other businesses in order to compare 9.9

Ed Kersey, manager, Pratt Reven

Million megawatt-hours energy consumption saved by 2012 Approximate number of rate trackers In place in our 11 states Corporate political contributions in 2009

\$229,500

Lobbying portion of trade association dues paid in 2009 (In millions)

12

2.25

100

Our business is regulated at the federal, state and local levels and is therefore heavily influenced by public policy. We need regulatory approval for the rates we charge, the investments we make, the projects we undertake, the programs and services we can offer to customers, and the actions we must take to protect the environment. For these reasons, we are actively engaged in Washington, D.C., in the 11 state capitals covering our service territory and in the communities where our facilities are located. We strive to work closely with regulators, legislators, environmental agencies, and environmental and consumer groups. Our involvement includes lobbying activities as well as relationship building at all levels.

On the national level, global climate change and energy policy are our top public policy issues because of their potentially farreaching effects. We are also active in our states on a wide range of issues: building support for investments in our system, potential nuclear power expansion, renewable energy, transmission siting, eminent domain, smart grid deployment, energy efficiency, and legislation that would enable new technologies such as carbon capture and storage.

The recession played a key role in policy development during 2009, and the expectation that customer rates will be higher continued to be a concern in our states. The cost of electricity is increasing due to the need to modernize our infrastructure, the age of much of our transmission and distribution equipment,



For Ed Kersey at Pratt Paper, the cost of energy is one of his most important business considerations.

the need for new plants to meet growing customer demand, higher fuel costs and environmental compliance.

We work with utility commissions and state legislatures on policies and regulatory actions that allow us to be as cost-effective and efficient as possible while recovering our costs in a timely and fair manner. State regulators approved \$725 million in rate increases in 2009 to address this. These rate increases, while necessary, can cause difficulty for our customers, and we work hard to find ways to reduce the burden.

ALTERNATIVE REGULATION

The electric utility industry requires large amounts of investment to maintain and improve service. AEP is no exception. The Brattle Group, a leading energy think tank, estimates that the industry will spend \$1.5 trillion for capital improvements from 2010 to 2030, not including the cost to address carbon emissions.

Our challenge is that we have limited resources to meet our financial obligations and our duty to serve our customers. As equipment on our system ages, it will have to be replaced. Environmental mandates also require significant investment, and that could lead to some coal plant retirements. in addition, power reserves --- the additional capacity needed to cover an abnormally high peak load or provide power to a neighboring region - are shrinking across the country. The North American Electric -Reliability Corp. projects that, by 2018, all regions of the country will have fallen below these requirements, and investment is needed to address that capacity shortage.

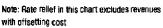
U.S. electricity demand is growing at a slower pace due to the recession and improvements in appliance and building efficiencies. At the same time, the proliferation of new electricity-consuming devices in home, commercial and industrial applications continues to grow. We expect our customers' energy consumption to grow modestly in 2010 as the economy

CHANGE IN ANNUAL NET INTERNAL SUMMER DEMAND - CONTIGUOUS U.S. (in megawatts)

	2004	2005	2006	2007	2008
Net Internal Demand	692,908	746,470	776,479	766,786	744,151
Change from Previous Year	-0.6%	7.73%	4.02%	-1.25%	-2.95%
Source: Energy Information Administration. Electric	Power Annual 2008. Jan	uary 2010		•	



TRACK RECORD OF RATE RELIEF (in millions)



recovers. Energy efficiency programs will help offset some of that growth.

Increased investment inevitably leads to increased rates. Alternative ratemaking (as opposed to the traditional model) is one way we are addressing rising costs. The traditional utility model required us to build and operate the infrastructure and then wait for a state utility commission to determine if we could recover costs. This process created financial hardship for three reasons: a) capital costs became exponentially more expensive than they used to be, making up-front costs prohibitive; b) the time between construction and cost recovery is too long for us to carry those costs; and, c) the possibility that the commission may not approve recovery of any or all of our investment and financial costs was too high a risk for us to bear. These factors made the overall cost of capital too high for us, our shareholders and our customers. We cannot keep up with needed improvements under the traditional approach.

We have been working with regulators to develop alternative regulatory frameworks and are already using a number of them. While we support some, we have concerns about others. For a complete list of alternative regulations under consideration, go to www.AEPsustainability.com.

ENERGY EFFICIENCY

Energy efficiency continues to be a high priority for many of our stakeholders and is increasingly important to us. We believe that energy efficiency can be a cost-effective tool for managing demand and reducing energy consumption, which creates environmental benefits and helps defay the need for new power plants.

When we began conversations with stakeholders about energy efficiency four years ago, we did not have a policy or principles to guide us, and programs were in place only in those states with mandates. We have since set goals to reduce demand and energy consumption by the end of 2012 that led to initiatives within each of our operating companies to assure success. Consequently, we have seen our investments in energy efficiency increase from approximately \$13 million in 2008 to a projected \$110 million in 2010. We now have a dedicated energy efficiency manager in each operating company responsible for achieving energy efficiency goals, and we are working with regulators and others to develop and implement programs. For example:

- In Texas, we are committed to offset
 20 percent of the annual load growth in our service territory, along with a commensurate reduction in energy usage.
- In Ohio, our energy efficiency programs will reduce annual energy consumption, starting at 0.3 percent of retail sales in 2010 and increasing to 2 percent in 2019.
- In Indiana, our energy savings goals start at 0.3 percent of retail sales in 2010 and increase to 2 percent in 2019.
- In Michigan, we are participating with the state's energy efficiency program administrator to reduce energy sales. The goals start at 0.3 percent of retail sales in

2009 and ramp up to 1 percent in 2012.

- In Virginia, our goal is a 10 percent cumulative reduction of baseline retail sales by 2022.
- In West Virginia, energy efficiency is an eligible source to help meet the state's alternative renewable energy requirement.

A state-by-state breakdown of energy efficiency programs, goals and savings achieved is available at www. AEPsustalnability.com.

We recognize that more progress is expected in the long term, and we are balancing what may be desirable with what practically can be achieved. We have completed market potential studies and some of the states we serve are finalizing rules regarding energy efficiency, including cost recovery mechanisms. While our initial energy efficiency goals are a good start, we know that we will need to stretch to achieve even better results in the future.

We are working with regulators to ensure that we can recover our energy efficiency investments in rates. So far, we are having good success. We seek approval for three main components when investing in energy efficiency programs: program costs, net lost revenues and an appropriate return on investment.

TRANSMISSION

As global climate change challenges the electric industry and our nation, the role of transmission has been at the forefront of the debate but without resolution. The grid must be transformed soon to ensure that energy delivery, including renewable energy, is efficient, cost-effective and reliable.

The existing transmission system, while functional, is challenged to meet the current demands on the grid and bring _____ large quantities of renewable energy, such



STUART SOLOMON

"President & chief operating officer, Public Service Company of Oklahoma

"As a public utility that provides an absolutely essential service, we must be actively engaged with a wide number of stakeholders on public policy issues that impact our customers, our employees and our shareholders. AEP is committed to working collaboratively with all these parties to craft policies and solutions that benefit everyone. We recognize that if we want to achieve our strategies and goals, including meeting our obligations to serve our customers, we must be the leader in public policy dialogues at the local, state and federal levels and we're dedicated to making that happen."

as wind and solar, from where it can be produced most economically to where it is needed. As demand and availability for renewable energy grows, the grid's limitations become more apparent. At the same time, emerging technologies such as plug-in electric vehicles and the growth of low-emission power generation further challenge the electric delivery system.

Today's U.S. grid operates transmission from as low as 23 kilovolts to as high as 765 kilovolts. This indicates the lack of consistent planning to meet the needs of every region of the country, including the ability to move power from region to region. Any expansion of the system will require more land for rights of way unless planners become more strategic. Siting continues to be a major public concern and an obstacle to upgrading the system. Our ability to be more strategic in our planning becomes increasingly critical if we are to eliminate economic disparities or prevent system reliability risks.

We have been a long-standing advocate for a robust and efficient extrahigh voltage grid, one that is planned on the basis of comprehensive and consistent principles. We also support broader regional transmission planning and broad-based cost allocation. We recognize that widespread cost allocation is controversial, but we believe it will help create the most efficient and cost-effective electric grid. It will

TRANSMISSION JOINT VENTURE INITIATIVES (estimated cost in thousands)

Pr oject	Location	Completion Date	Owners (Ownership%)	Estimated Cost
ETT	Texas	2017	MEHC Texas Transco, LLC (50%) AEP (50%)	\$3,097,000
PATH	West Virginia/ Virginia/Maryland	To be determined	Allegheny (50%) AEP (50%)	\$1,800,000
Tallgrass	Oklahoma	2013	OGE Energy (50%) ETA (50%)*	\$500,000
Prairie Wind	nd Kansas 2013 Wester Energy (50%) ETA (50%)*		\$400,000	
Pioneer	Indiana	2015	Duke Energy (50%) AEP (50%)	\$1,000,000

*Electric Transmission America, LLC (ETA) is a 50/50 joint venture with MidAmerican Energy Holdings Co. (MEHC) America Transco, LLC and AEP Transmission Holding Co., LLC. ETA will be utilized as a vehicle to invest in selected transmission projects located in North America, outside of ERCOT. AEP Transmission Holding Co., LLC owns 25 percent of Taligrass and 25 percent of Prairie Wind through its ownership interest in ETA. also better facilitate integration of renewable resources into our nation's fuel portfolio.

Read more about our strategy, actions and vision for transmission on the Web at www.AEP.com/about/transmission.

Industry Activity

LOBBYING

Employee and contract lobbyists in our states and at the federal level advocate on our behalf on legislation that is important to business, leads to better public policy and best serves our customers' interests. Many of the company's lobbyists have been with AEP for many years. They understand our values and abide by our strict rules of ethics. All lobbying expenses are reported as required by law and are available on state and federal websites. According to reports filed with the Clerk of the U.S. House, AEP spent \$7,297,245 lobbying at the federal level in 2009.

We made a commitment in 2007 to publish the dues we pay to trade associations that are allocated to their lobbying activities and the political contributions we make. We publish this information at www. *AEPsustainability.com.*

Emenal Performance Environment

66 Often one of the most challenging parts of my job is trying to explain to employees why we do what we do in regard to various environmental rules and regulations.

A State

Ginger Mackinight, environmental and lab supervisor. Philip Sporn Plant

Number of AEP facilities that are LEED certified



Million gallons of water per year used tor ash handling at coal plants



Number of environmental audits performed in 2009

21

Land owned by AEP subsidiary companies covered by forests

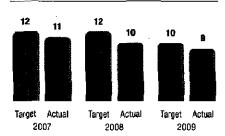


AEP produces and delivers an energy resource that is essential to society. Our success is measured by our ability to meet customers' energy needs while making a profit, do it responsibly, with respect for the environment, in compliance with all laws and regulations, and by engaging with those who have a stake in our business. We believe that our environmental performance overall is excellent, but we know there is room for improvement.

Our \$5.4 billion program to retrofit many of our coal-fired power plants with environmental controls is already having significant positive impacts on our performance and the environment. Today, our sulfur dioxide (SO₂) and nitrogen oxide (NOx) ernissions are at their lowest levels in two decades. These reductions reflect our compliance with the Clean Air Act (CAA) Title IV regulations, the NOx State Implementation Plan Call and the Clean Air Interstate Rule (CAIR).

Environmental regulation is in fluc the U.S. Environmental Protection Agency (EPA) is reviewing or rewriting several key regulations pertaining to air emissions, water quality and waste storage and disposal. Many potential changes are aimed directly at coal-fired power plants and could adversely affect our net income, financial position and the cost of electricity.

If, for example, emission limits become more restrictive, or if additional substances are regulated, we would face significant additional costs to comply. We have obtained cost recovery for our environmental program ENVIRONMENTAL PERFORMANCE INDEX (number of incidents per year)



This internal index sets targets for environmental performance that are tied to compensation, it sets goals for opacity, NPDES, and oil and chemical spills at our power plants.

so far, and we expect we would continue to be allowed to do so if new government mandates are imposed.

Compliance Performance & Management

Protecting the environment is the foundation and focus of our environmental activity and daily operations. Our performance baseline is to achieve compliance, but we reach for levels beyond compliance when we believe it is in the best interest of our customers, shareholders and other constituents. Our commitment to protecting the environment is embodied in a target of zero significant enforcement actions. Although our overail performance was very good in 2009, we did not meet our goal of zero significant enforcement actions.¹ We were cited in five enforcement actions involving power plants in Virginia, West Virginia, Kentucky and Arkansas. For details, go to

www.AEPsustainability.com.

We conduct environmental and safety and health audits to comply with regulations and improve our performance. In 2009, we performed 21 environmental audits and 11 safety and health audits at various locations, including generating plants, service centers, the Dolet Hills lignite mining operation, the Shreveport Chemical Lab and River Operations. Internal audit findings last year ranged from record-keeping and labeling errors to training for new employees and spill management. The audits also identified best practices, including an environmental briefing process to document and communicate with plant employees about events and corrective actions. The audit results are shared internally every quarter as "lessons learned" to improve self-assessment and overall performance.

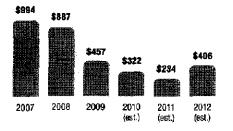
We use an Internet-based system to manage, record and report environmental information for regulatory compliance. By the end of 2010, we will use the system to



Ginger MacKnight is responsible for the environmental systems at the Philip Sporn Plant in West Virginia.

¹ We define a significant enforcement action as one arising from events that are within our control, bave more than a minor environmental impact, and result in a fine greater than \$1,000.

AEP HISTORICAL & PROJECTED ENVIRONMENTAL INVESTMENTS (in millions)



manage air and water regulatory programs.

This system complements our efforts to conform our plants to environmental, safety and health management systems standards — ISO 14001 and OHSAS 18001-- to strengthen our compliance performance. Ensuring that our policies and procedures are accurately documented enables us to capture the knowledge and practices of our experienced employees, many of whom are nearing retirement. We are in varying stages of implementation at 39 coal, gas and hydroelectric plants across the AEP system.

REGULATORY LANDSCAPE CHANGING

The U.S. EPA is considering revising many significant regulations that govern our industry. The agency plans to revise the CAIR, develop a new hazardous air pollutant rule for coal-fired power plants, change existing standards for water discharges from steam electric plants, propose new standards for water intake structures at existing power plants, and develop a new rule for the storage and disposal of coal combustion byproducts.

Protecting the environment and the public are our clear priorities. But regulatory uncertainty followed by overly aggressive compliance deadlines could force us to close some coal units prematurely, jeopardizing reliability and forcing us to raise costs to pay for new controls, finance unproven technologies or replace retired units.

Specific Issues

COAL ASH

The December 2008 breach of a coal ash dike at the Tennessee Valley Authority's (TVA) Kingston Station resulted in 5.4 million cubic yards of ash spilling into a nearby river and onto private properties and prompted a federal and state review of laws regulating coal ash. Coal ash disposal facilities around the country came under greater scrutiny. as regulators took enforcement actions against TVA and stepped up inspections elsewhere. The U.S. EPA is considering whether coal ash should be classified as a hazardous waste, subjecting it to more stringent storage and disposal rules under the Resource Conservation and Recovery Act. A decision is expected this year.

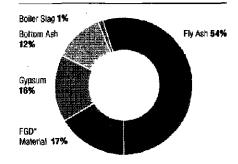
AEP operates 11 large ash impoundments, 26 smaller impoundments and seven "in-ground" ponds (ash ponds that do not have dams) used to store fly ash, bottom ash, boiler sleg and other byproducts from flue gas desulfurization systems, also called scrubbers. The management of many of our dry storage facilities includes liners, leachate collection systems and groundwater monitoring, U.S. EPA regulations may lead to entirely dry storage methods, so we are evaluating that possibility and its associated costs, including lost revenue from the sale of coal combustion byproducts. We are in the process of converting one of our largest ash impoundments from wet storage to dry storage within the next couple of years at a cost of approximately \$75 million. The change is the result of the remaining life of the current facilities and the opportunity to address future water quality issues.

Our internal impoundment inspection program is based on federal dam safety guidelines and applicable state and local dam safety regulations. We periodically assess and ensure the structural integrity of our storage facilities. After the TVA event, we conducted an additional review of these facilities with independent technical consultants. This helps us ensure that our management practices are sound and that we are not missing something important. These reviews help us improve but also provide assurance that our practices are appropriate and conservative.

We work closely with state agencies to assess risks to the environment and the public and to ensure that we are meeting all permit requirements. We also participate in an industry effort to install groundwater monitoring wells even where they are not required. And we are adding additional audits of our performance to the inspection schedule in 2010.

While we support greater oversight of ash impoundments, we believe that coal ash should not be reclassified as a hazardous waste. Many state regulators and policymakers agree and have shared their views with the EPA. We have met with the EPA and have testified before Congress

2009 COAL COMBUSTION BYPRODUCTS



8,349,267 tons of coal combustion byproducts were produced *Flue gas desulfurization

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about our concerns. This is an important issue to AEP because of the large number of impoundments we operate.

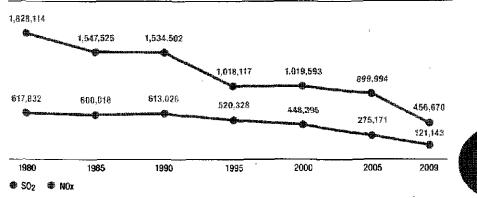
The public is legitimately concerned about coal ash impoundments and the beneficial use of coal ash. We seek to be both transparent and persuasive about the steps we are taking to protect public safety and the environment, and we are developing a plan that will include better and more frequent outreach and dialogue with stakeholders.

Approximately 40 percent of AEP's coal combustion byproducts are recycled as raw materials in road construction and concrete. By selling coal ash, we avoid approximately \$14 million in disposal costs and net about \$8 million in revenues.

AIR QUALITY

The \$5.4 billion environmental control construction program at our coal-fired power plants is nearly complete. We began operating two new scrubbers in 2009 at the Conesville Plant in Ohio and the John Amos Plant in West Virginia. We also began operating a selective catalytic reduction system to reduce NOx emissions at Conesville.

We met a new limit on total NOx emissions that took effect at our eastern coal-burning plants in 2009, and we will also meet a cap for SO₂ that takes effect in 2010 as part of our 2007 New Source Review consent decree. Under this agreement, SO₂ emissions from our eastern coal plants will be reduced to 174,000 tons per year by 2019, a reduction of more than 650,000 tons per year compared with emissions prior to the agreement. In addition, NOx emissions will be reduced to 72,000 tons per year, a decrease of 159,000 tons per year prior to the agreement.



SO2 & NOx EMISSION TRENDS AT AEP-OWNED PLANTS (measured in U.S. tons)

Several key regulations the EPA is considering for revision would have significant impact on our coal-fired power plants and on our customers. The EPA is developing a replacement for the CAIR that will reduce SO₂ and NOx emissions from our power plants. An earlier EPA decision about the CAIR was remanded to the agency by the D.C. Circuit Court of Appeals in 2008 but remains in effect during the additional rule-making activities. We devoted 6.7 million work-hours to CAIRrelated construction in 2009.

The EPA also is working on a replacement for the Clean Air Mercury Rule, including collecting detailed information regarding a wide range of hazardous air pollutant emissions for its rule development. analysis. Twenty-one of our coal-fired units are among approximately 500 units nationwide that are providing air sampling information about mercury to the EPA. Although we don't expect the rule to be final until 2011, we have begun installing mercury monitoring equipment on nearly all of our coal-fired power plants. But the technology is not achieving the needed reliability and requires daily technical adjustments. Consequently, we slowed the installations until we can resolve the equipment issues.

An additional benefit of the SO₂ and NOx controls we installed on a number of our larger coal-fired power plants is that they also significantly reduce mercury emissions.

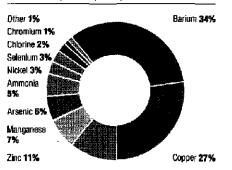
While we don't know precisely what the new rules will require, we continue to work with the EPA to establish requirements that are realistic, achievable and allow enough time to implement.

WATER ISSUES

For more than 50 years, the federal government has protected water quality in the United States by regulating discharges into streams and water bodies. Restructured in the 1970s under the Olean Water Act, these regulations established the National Pollutant Discharge Elimination System (NPDES) permit program to set discharge limits. This program is administered by state environmental agencies with U.S. EPA oversight. We work closely with regulators to ensure we do not exceed our permit limits.

The EPA intends to revamp the Clean Water Act's compliance and enforcement program. The agency also plans to revise the steam electric effluent guidelines, which govern the standards for water discharges at coal-fired power plants, including discharges from coal ash ponds, coal piles, air

2008 AEP SYSTEMWIDE RELEASES TO WATER (192,639 pounds)



pollution control systems and other sources. We are committed to working with the agency to assure that any new standards are achievable and affordable.

When coal is burned to produce electricity, the effects on the environment extend beyond air quality. For example, the installation of scrubbers to remove SO₂ from air emissions also results in the capture of other pollutants such as mercury and selenium, which end up in the wastewater and scrubber byproduct. The byproduct is managed in well-designed landfills, but to protect water quality and ensure that we remain compliant, AEP installed wastewater treatment facilities at each power plant with air emission controls. We also are leading an industry effort to develop treatment technologies for removing mercury from power plant wastewater discharges.

The Cook Nuclear Plant is effectively monitoring tritium levels in groundwater and recently installed five multi-level wells to further improve groundwater monitoring. No tritium levels have been detected at the site that require reporting in accordance with the Nuclear Energy Institute 07-07 "Groundwater Protection Initiative."

The outcome of the EPA's deliberations about how to implement Section 316(b) of the Clean Water Act is very important to us. The U.S. Supreme Court ruled that the Clean Water Act allows the EPA to use costbenefit analysis in setting standards related to cooling water intake systems at power plants to better protect fish and shellfish. That decision paves the way for our industry to protect the environment in ways that take costs into account. The potential price tag may be significant for us, but without this balance of cost and benefit, it could be cost-prohibitive with limited environmental benefit. We continue to work with the EPA. and others to reach a reasonable outcome.

Stakeholders have raised concerns about the amount of water that is needed to produce electricity. Our air emissions challenges take higher priority than our water use challenges because our air emissions create greater financial, environmental and operational risks. However, water conservation is important to us, and we are investigating new technologies and other conservation opportunities.

We formed an internal water study group to identify opportunities to address our water use. We also are participating in a three-year research project with the Electric Power Research Institute and other utilities to develop, test and deploy efficient, advanced cooling technologies. We do not have specific water use metrics for our existing power plants; our focus is on maximizing generating unit operating efficiency to help reduce the amount of water we use for cooling purposes. Opportunities to incorporate specific water use metrics may come with new construction, such as replacing older steam electric facilities when they are retired with new facilities. However, new power plants today typically have cooling towers, which reduce overall water use but increase water consumption from local resources. We also consider water consumption in evaluating pollution control technology. For example, a "wet" SO₂ scrubber will consume more water than a "dry" scrubber. We also are studying potential impacts related to carbon capture and storage. Read more online at www.AEPsustainability.com.

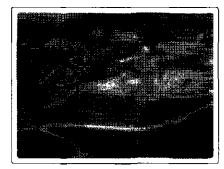
WASTE REDUCTION & LAND ISSUES We seek to reduce and property manage



PAUL CHODAK

President & chief operating officer, Southwestern Electric Power Co.

"Today's sustainability challenges require us to work even more closely with customers, regulators, environmental groups, legislators and our own employees to achieve the best results. Challenges abound in meeting everchanging environmental laws and complex regulations, yet our responsibility remains the same as it has been since SWEPCO's inception in 1912; to support our customers and communities by providing them with reliable, cost-effective power in a responsible and responsive manner. Our goal going forward is to fulfill customer expectations while balancing the needs of all our stakeholders."



An aerial view of an area surtace mine in eastern Kentucky; about 7 percent of AEP's coal supply comes from mountaintop mining operations.

the waste that we produce, including its disposal and the remediation of contaminated land. We extend this vigilance to our suppliers whenever possible. In 2009, we disposed of more than 110,000 pounds of hazardous waste and recycled 1.8 million pounds of paper, 51 million pounds of metal, 250,000 light bulbs and 1.7 million gallons of oil. We also recycled or reused approximately 135,000 pounds of electronic equipment, such as computers and phones, keeping it out of landfills. Read more about this issue at www.AEPsustainability.com.

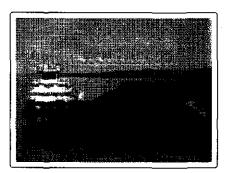
Working With Our Suppliers

COAL SUPPLIERS

The life cycle of coal is of great concern to many of our stakeholders because of the full range of environmental impacts, from mining to combustion for energy production to combustion byproducts. As part of our stakeholder engagement process, we made a commitment in 2008 to begin evaluating the environmental, safety and health performance of our coal suppliers. We conducted our first survey of coal suppliers in 2009, seeking information about their mining practices, environmental and safety and health performance, and contributions to local communities. We also used the survey to help us learn what percentage of our coal supply comes from mountaintop removal mining.

We hired a mining consultant to help develop and conduct the survey and included numerous performance indicators from the GRI's Mining and Metals Sector Supplement. Twenty-four of our 31 coal suppliers responded to the survey, representing about half of the nation's coal production and 82 percent of our 2008 coal deliveries. We used the survey results as a core component of a stakeholder meeting. that brought coal suppliers together with environmental groups, regulators, elected officials, community leaders, academics and AEP executives. We believe this was the first time these groups had met face-to-face to discuss coal production issues.

We learned a lot about our suppliers. The survey showed that the safety and health performance of those responding was better than the national average for their industry. Their environmental performance also was generally good, but in the absence of a national database or other benchmark, we found it difficult to identify important trends or make meaningful comparisons beyond those who responded. We also confirmed that roughly 7 percent of



An AEP River Operations tugboat assembles coal barges at the Cook Coal Terminal, Metropolis, III.

our coal comes from mountaintop mining.

We discussed the survey results, mountaintop mining, the economic importance of mining and the challenges of reducing coal production in light of its status as a low-cost fuel. The meeting participants agreed that coal is necessary to keep the lights on in this nation, but there was disagreement about how and when to transition to other sources of energy.

We intend to conduct the survey annually and our goal is for all suppliers to participate. Through the survey, we identified certain companies whose environmental, safety and health performance was exemplary. We also identified companies whose performance was below the norm. We intend to reach out to companies from both groups to learn what factors they believe influence their performance. From these discussions, we hope to share nonconfidential information with all of our coal suppliers that could help improve the overall environmental, safety and health performance of the group.

We are initiating conversations with public utility regulators in our states to test their receptivity to including environmental, safety and health performance considerations in our fuel bid evaluations. In the interim, we will revisit the survey to enhance it and continue to engage stakeholders on these issues.

Read more about what two stakeholders have to say about coal mining, in their own words, in *Stakeholder Engagement* and at *www.AEPsustainability.com*. More information about the survey and next steps, along with our work with nonfuel suppliers, is on the Web.

Environmental Performance: Climate Change

When the United States develops legislation or regulations that require a reduction in CO₂ emissions, there is no doubt in my mind that CCS will be an integral part of compliance for the coal-fired power generation industry. While efficiency improvements to the power generation process can take us part of the way toward a lower carbon footprint, there will be no substitute for advanced CCS technology deployment.

Gary O. Spitznogle, manager of IGCC and Gas Plant Engineering

www.AEPsustainability.com

Generating capacity from renewable energy



Million metric tans of CO₂ emissions in 2009

130

Generating capacity from coal



SF₆ emissions rate of total system capacity in 2009

2%

For more than 100 years, AEP has produced low-cost electricity by burning coal — a plentiful, domestic and cost-effective source of energy. Coal-fired electricity has played a vital role in expanding the American economy, creating well-paying jobs and assuring the safety, health and well-being of our customers. Nearly half of the nation's daily electricity comes from coal. We firmly believe that coal will continue to be a significant component of America's energy mix for the foreseeable future.

At the same time, we recognize that the carbon dioxide (CO₂) emissions created through the combustion of fossil fuels, including coal, are a matter of concern. AEP has the largest portfolio of coal-based generation in the United States, so we have a responsibility to lead our industry in proactively addressing this issue. We are doing so through our investments in cleancoal technology and carbon offsets and in our vocal support for responsible federal legislation, including cap-and-trade policies.

We are leading in terms of our measurable, voluntary efforts to reduce our carbon emissions and use more renewable fuels, and through our efforts to modernize the electric grid, put more control of energy use in consumers' hands, and increase energy efficiency. And we are leading in the international arena as well, working with the World Business Council for Sustainable Development and International Emissions Trading Association; and by participating in the international climate treaty discussions



From left, Frances Beinecke, president of the Natural Resources Defense Council, AEP Executive Vice President Dennis Welch, and Mark Tercek, president and chief executive officer, The Nature Conservancy, discuss deforestation at the United Nations' climate change conference in Copenhagen, Denmark.

in Copenhagen, Denmark.

We expect the makeup of our generation portfolio to change in response to several external factors, including global climate change. The number of coal-fired units we operate in the future will be determined by new or more stringent environmental regulations; greater potential use of natural gas, including shale gas; the age and efficiency of some of our coal units; and the outcome of the climate change debate. The transition to other fuel sources will take time and will be expensive, but we are preparing for it.

STRATEGY & APPROACH

Our strategy is to pursue multiple options, including renewable energy, new technologies, offsets, natural gas, energy efficiency, and increasing the output of our nuclear units. At the same time, we will continue to improve the efficiency of our plants; retire or mothball some older, smaller coal units when factors warrant; and complete our environmental retrofit program.

Stakeholders have asked us if we consider a carbon price when making capital investment decisions. Our assumptions take into account the many different options being considered for legislating or regulating CO₂ emissions. If CO₂ and other emission standards are imposed,



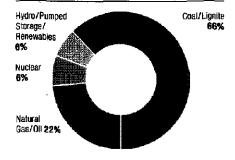
A team of employees and contractors completed the Mountaineer carbon capture project on time and on budget.

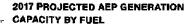
they could require significant increases in capital investments and operating costs. We don't know with any certainty what those might be, but we believe that the costs of compliance would be allowed in customer rates, as they have been in the past.

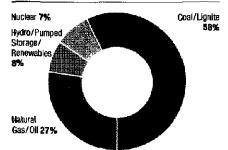
Our CO₂ emissions in 2010 and beyond will be affected by continued changes in our generation portfolio, market prices, the pace and scale of the economic recovery, available capital, weather and other factors. We expect that our CO2 emissions between 2010 and 2012 will remain largely flat despite sales rebounding from the recession lows of 2009. During the next decade, we expect our CO₂ emissions growth to decline due to retirements of some older coal units and increased use of renewable energy, among other things. Our capital investment decisions take all of these factors, including public policy, risks, cost to customers and available resources, into consideration in the planning and decisionmaking process.

We are voluntarily taking actions that help us reduce or offset our CO₂ emissions. As a founding member of the Chicago Climate Exchange (CCX), AEP committed to cumulatively reduce or offset 48 million metric tons of CO₂ from 2003 to 2010. Through 2009, we had already reduced or offset more than 70 million metric tons of CO₂. We achieved this through the purchase of CO₂ credits and verifiable offsets and by improving the efficiency of our power plants; by increasing our renewable, natural gas and nuclear generation; and by retiring less efficient fossil units, among other actions.

Though AEP's commitment to CCX runs only through the end of this year, we expect to continue voluntary actions that help us reduce our carbon emissions in 2009 AEP GENERATION CAPACITY BY FUEL







the absence of mandatory legislation or regulations. These voluntary actions could include an extension of our commitment to CCX as an interim solution until mandatory legislation or regulation does take effect, if this is a viable option. As with other voluntary actions, we are working with legislators, regulators, policymakers and other stakeholders to gain support for regulatory cost recovery. In the long run, when carbon mandates are issued, our early actions will help us comply.

PUBLIC POLICY & FEDERAL LEGISLATION

Climate change is a global issue. The United States and its trading partners must take action together, otherwise the U.S. economy will be placed at a competitive disadvantage. It is encouraging that China and India have agreed to be part of the Copenhagen Accord, along with other developing countries. The accord, reached during international treaty negotiations in Copenhagen in December 2009, sets a nonbinding goal of limiting global warming to less than 2 degrees Celsius above preindustrial times. It is a step in the right direction toward a global solution. And President Obarna's pledge of a 17 percent reduction in greenhouse gas emissions by 2020 for our nation is a signal of where the United States likely is headed.

Read more about our international work at www.AEPsustainability.com.

We believe that a U.S. climate policy should include a federal cap-and-trade system to reduce greenhouse gases (GHGs), provide incentives to develop and deploy new technologies, create targets for emissions reductions that match available technology, and allow for unrestricted use of real, verifiable domestic and international offsets. For more details on our position, please visit www.AEPsustainabity.com.

Legislation that targets only specific sectors of the economy, including the electric utility sector, has been suggested. We do not support this. We do not believe that a single industry and its customers should shoulder the weight of this global issue.

We supported the American Clean Energy and Security Act of 2009 (the Waxman-Markey bill) that was passed by the U.S. House of Representatives. The bill included important provisions that addressed jobs, costs and the economy. Given the large number of future administrative actions the bill would create, there is still too much uncertainty about the potential outcomes to be able to predict the impact on electricity rates or the level of capital investment that may be needed. However, we believe that under the current provisions, the bill would likely drive up costs to our customers significantly while also providing important incentives for technology development.

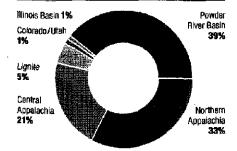
OFFSETS, ALLOCATIONS, AUCTIONS

Emission "offsets" include emission reductions, avoided emissions or sequestration at sources that are not subject to emission reduction requirements under cap-andtrade legislation. Under a flexible cap-andtrade system, emission offsets can play an important role in lowering compliance costs while at the same time assuring the emission reduction goals are met. Offsets are generally less expensive than direct reductions in emissions from power plants. factories or vehicles. They can also deliver valuable ancillary economic and environmental benefits. We plan to use them to assure compliance until new clean-energy technologies are ready for commercial deployment and become more economical.

We have voluntarily invested in offsets, including forestry and agricultural methane destruction, and purchased credits through the CCX. The offsets we purchase are verified and fully accredited by third parties and reputable registries.

Our position on CO₂ allowance allocations and auctions has not changed. The distribution of valuable emission allowances will have serious implications throughout the economy and enormous financial consequences for our customers. Although we recognize there may be a need for some auctioned allowances from the overall allocation to support complementary climate change efforts, we seek a full allocation of allowances to the electric utility sector (equal to the sector's total share of the U.S. emissions cap) in order to minimize the cost and subsequent rate impact on our customers. Without sufficient allocations, the

2010 PROJECTED COAL PROCUREMENT



effects on local economies struggling to emerge from the recession would be harsher.

Our responsibility to our customers is paramount, and we are passionate about seeking a legislative approach that considers the cost and economic impacts upon them.

POTENTIAL REGULATION

The U.S. Environmental Protection Agency (EPA) is preparing to regulate GHGs under the Clean Air Act (CAA). In 2007, the U.S. Supreme Court found in Massachusetts v. EPA that GHGs can be regulated as air pollutants under existing law. The EPA Issued a Public Endangerment Finding in December 2009 stating that GHGs are "reasonably anticipated to endanger public health and welfare." In response to concerns raised by state agencies and the regulated community that the EPA was moving too fast, the agency in February 2010 announced its intent to phase in the program.

We strongly believe regulating GHGs through the CAA is the wrong approach. We support a cap-and-trade legislative approach, similar to the Waxman-Markey bill, and we have advocated this to Congress. Provisions in legislation that allocate allowances, offer incentives for technology development and provide other benefits that allow us to continue to cost-effectively transition to a lower carbon economy are critical for our customers, our company and our shareholders.

When this rule takes effect, GHG emissions from stationary sources, such as power plants, could be considered a "regulated air pollutant" under the CAA's permitting programs. This could bring CO₂ and other GHGs into the existing regulatory program for stationary sources and require that these gases be considered in permits when building new units or modifying existing ones.

The standard would likely trigger a requirement to apply best available control technology (BACT) to GHGs to meet the regulations. However, it is not yet clear what the BACT for GHGs will be. In addition, the EPA is likely to move forward with the development of New Source Parformance standards for electric generating units and other stationary sources.

We have been working with the EPA through industry trade associations as well as participating in the agency's Clean Air Act Advisory Committee, and we are looking closely at how these new rules would affect our ability to continue operating existing coal units that are not already equipped with environmental controls. We are also monitoring the development of technologies that could be considered in a BACT analysis for our power plants.

Federal and state regulations or legislation limiting the emission of GHGs could result in significant increases in capital expenditures, financing and operating costs. This higher level of investment could also lead to an increase in earnings because of the higher value of our rate base. The cost of additional regulatory requirements would ultimately be borne by consumers through higher prices for energy.

TECHNOLOGY

AEP is leading the U.S. utility industry in advancing carbon capture and storage (CCS) technologies. We successfully captured, transported and geologically stored carbon dioxide emissions from an existing coal-fired power plant for the first time in October 2009, demonstrating the capability of fully integrated carbon capture and storage technology at our 1,300-megawatt (MW) Mountaineer Plant in West Virginia. The project uses Alstom's patented chilled ammonia technology to capture the CO2 from a 20-MW portion of the plant's flue gas - a major technology achievement. It is the largest integrated CCS demonstration applied to an operating power plant. Approximately 90 percent of the CO₂ from the flue gas stream is being captured and stored underground.

CCS - HOW IT WORKS

To be able to store the CO₂ underground, the Mountaineer Plant received West Virginia's first-ever CO₂ storage permit from the West Virginia Department of Environmental Protection. The permit allows the demonstration facility to inject a maximum of 165,000 metric tons of CO₂ per year for up to five years.

The next project — to install the nation's first commercial-scale, coal-derived CO₂ capture and storage system at Mountaineer — will be partially funded through the U.S. Department of Energy's (DOE) Clean Coal Power Initiative. AEP was awarded 50 percent of the cost of the project, up to \$334 million. This will reduce the costs to our customers for the first commercial deployment of this technology. We are seeking additional partners to help pay the remaining cost of the project.

This commercial-scale project will



Chairman Mike Morris and U.S. Sen. Jay Rockefeller (D-W.Va.) at the Mountaineer CCS commissioning event.

capture approximately 90 percent of the CO₂ from 235 MW of the plant's 1,300-MW capacity. The captured CO₂, approximately 1.5 million metric tons per year, would be treated, compressed and stored underground. We intend to begin this commercial-scale operation in 2015; if the technology is successful, can be commercialized and is cost-effective, we would seek regulatory support to begin retrofitting existing coal plants.

For more information about the CCS technology at Mountaineer Plant and our project partners, visit our website at **www.** *AEPsustainability.com*.

MAKING THE ECONOMICS WORK FOR CUSTOMERS

Developing new technologies such as CCS can impose significant costs on customers, particularly in the early development stages. But as the technology matures, the costs should decline. For example, Mountaineer's

20-MW project cost more than \$5,000 per kilowatt (kW), but the proposed 235-MW system is estimated to cost less than \$3,000 per kW. When the government subsidies are factored in, the cost falls to approximately \$1,500 per kW.

We are able to be a first mover of technology because of our engineering, technical and construction expertise. First movers always pay an initial premium with respect to cost and risk. However, they also gain valuable knowledge and understanding as the technology develops. This particularly benefits AEP and our customers, but also the industry by being a driving force for cost reductions, increased reliability and improved availability for all users. It is not clear what the cost-reduction curve will be for CCS technology over time, but we are seeing it head in the right direction as we move past the demonstration phase to full commercial availability in 2020.

OTHER ADVANCED TECHNOLOGIES

We made significant progress in 2009 on the 600-MW John W. Turk Jr. ultra-supercritical pulverized coal plant under construction in southwest Arkansas. Southwestem Electric Power Co. successfully secured all major construction permits but still faces legal challenges to the process used by the Arkansas Public Service Commission to approve construction of the plant.

We set a goal two years ago to deploy 25 MW of sodium sulfur (NaS) battery storage on our system by 2010. Instead, we have a capacity of 11 MW with the completion of a project in Presidio, Texas. We stopped installing these batteries because the technology became costprohibitive. We are now focusing on community energy storage (CES), which uses lithium-ion battery technology – the



DANA WALDO

President & chief operating officer, Appalachian Power Co.

"Meeting the challenge of reducing the carbon impacts of the nation's electric infrastructure will require thoughtful engagement with every level of our stakeholders. We must be at the table to help identify, develop and support policy pathways that balance reductions in greenhouse gas emissions with our ongoing commitment to provide reliable, affordable and environmentally responsible electricity to our customers."

same type of batteries used in electric vehicles – making them more widely available and cost-effective. We are installing 2 MW of CES as part of the AEP Ohio gridSMART[™] Demonstration Project. Read more about CES online at www. AEPsustainability.com.

VOLUNTARY ACTIONS MATTER

Wind energy accounts for 2 percent of the total power generation in the United States. The U.S. wind industry installed a record 9,922 MW of generating capacity in 2009, helped by federal tax subsidies.

We committed to add 2,000 MW of renewable resources between 2007 and the end of 2011, assuming regulatory approval. We are making progress. We have secured 1,013 MW of renewable energy through power purchase agreements, including 10 MW of solar power. Our integrated resource plan contains a 10 percent renewable energy target by 2020, based on the expectation that additional federal or state requirements may be enacted. Renewable energy requirements ranging from 9 percent to 15 percent by 2021 have already been part of federal energy and climate legislation in the House and Senate.

In the states that have renewable energy mandates, there is regulatory support for cost recovery. This is not necessarily true in states without such requirements. We are working with regulators and policymakers in service territory states without mandates to help ensure cost recovery; if they approve it, we will move forward, but if they don't, we will not. Read more about voluntary actions online at www.AEP sustainability.com.

ENERGY EFFICIENCY

Energy efficiency is a high priority for us and for many AEP stakeholders. We believe energy efficiency is an important, costeffective way to reduce GHGs and can possibly delay the need to build new power plants. We work closely with legislators, regulators, environmental groups, technical experts and others to develop and implement efficiency and demand response programs. Despite challenges, we are seeing signs of success.

Market potential studies completed in 10 states help us identify the technical, economic and achievable energy and demand reduction potential in homes, businesses, schools and other facilities. Our investment in energy efficiency programs has steadily increased from about \$13 million in 2008 to a projected \$110 million in 2010 and \$218 million in 2012. This year, we anticipate more than two dozen regulatory filings in our states.

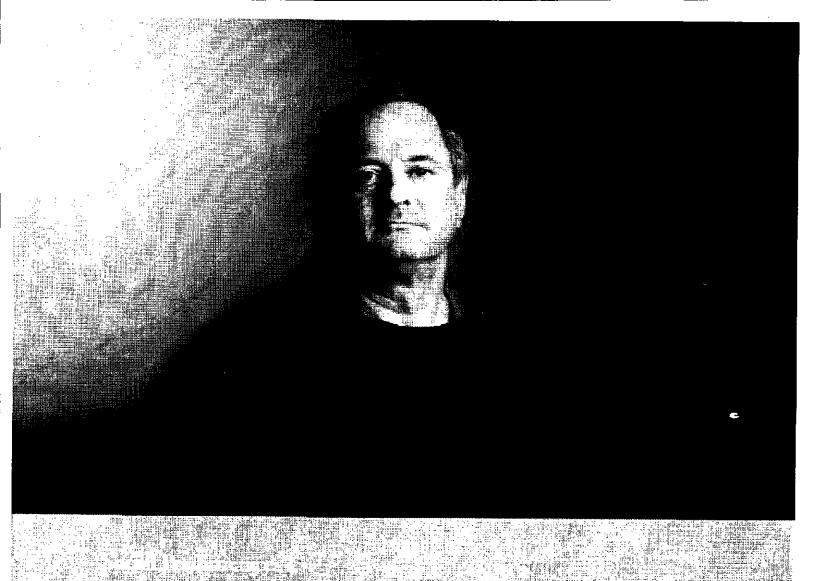
TOTAL COAL DELIVERED TO AEP PLANTS

	2007	2008	2009
Thousands of tons	72,644	77,054	75,909
Average price per ton	\$36.65	\$4 7.14	\$49.54

These initiatives, and others we hope to implement, will help us to achieve our 2012 goal to reduce demand by 1,000 MW and energy consumption by 2,250,000 megawatt-hours (MWh). We already have identified the potential for more than 900 MW of demand reduction and approximately 2,800,000 MWh of energy reduction. We are actively seeking regulatory approval of our plans, which will be necessary if we are to meet our goals. We recognize that in the longer term more is expected, and we are pursuing additional programs and demand reduction opportunities that may be practical in many of our jurisdictions.

We are also beginning to investigate energy efficiency in wholesale markets.

Our ability to move forward relies on regulatory approval that includes recovery of program costs and lost revenues and a return on investment. Learn more about gridSMARTSM and energy efficiency efforts in our states at *www.AEPsustainability.com.* ■



66 The (employed) fatality reminded me that an accident can happen at any given time, to alwone. It made me change my way of thinking and be more aware of my surroundings. Something like this sticks with you. **99**

Richard Worsham, heavy equipment operator, Dolet Hills Lignite Mine

Average age of AEP employees



Number of injuries, illnesses or fatalities we strive for Work force represented by labor unions



Number of employees receiving the Chairman's Life Saving Award in 2009



The most important aspect of our operations is to make sure everyone who works for us returns home safe and sound at the end of each workday. Our health and safety management systems failed tragically in 2009 when two of our employees and two contractors working for us were fatally injured on the job. This is unacceptable to us, and our entire company feit these losses.

We have programs and specific measures in place to avoid injuries, but it is clear that we have much more work to do to strengthen our safety culture if we are to reach our goal of having no fatalities, no injuries and no occupational illnesses - a condition we call "zero harm." A highly skilled work force that actively pursues zero harm and is deeply committed to mutual care and peer protection is the key to success. Our Human Performance initiative is dedicated to eliminating hazards and human errors that cause accidents. Although this culture change is taking hold, we are still concerned that productivity takes precedence over safety and health in some cases, and we are working to change that.

Our incentive plan for executive management includes a substantial penalty if there are employee fatalities. As a result of the deaths that occurred in 2009 and other factors, executive management did not receive any incentive compensation. All employees lost a portion of their incentive compensation because of the fatalities.

We have other work force challenges,



One of Richard Worsham's primary responsibilities at the Dolet Hills lighte mine is operating the pumps that keep the mine dry.

particularly as we reduce our work force to address new economic realities and the need to find end retain the best talent to meet our future business goals. We must fully engage our employees and find ways to foster an environment that makes people want to work and stay here.

REACHING FOR ZERO HARM

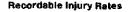
Two employees and two AEP contractors were fatally injured on the job last year. We deeply regret each of these incidents and the grief they caused for so many.

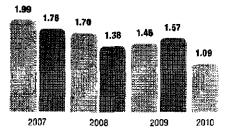
An employee at our Dolet Hills lignite mine in Louisiana was killed in March 2009 while working on heavy machinery, called a walking dragline, used to extract coal. What caused him to fall or to be in the location he was in is unknown. However, we now prohibit employees and contractors from having contact with the dragline when it is in motion. Physical barriers such as gravity gates and safety chains have been installed at all access points, and tripping hazards have been removed. Employees are now equipped with radios to ensure continuous communication between those on the ground and the equipment operator.

A River Operations employee lost his life in November when he fell from a barge into the Mississippi River. As a result, teams of employees are evaluating vessel operating practices with the goal of reducing deck crew exposure. Approximately 1,000 River Operations employees are receiving training in hazard recognition, safe work practices and job safety briefings to enhance awareness and increase focus on job responsibilities. We also are working with marine consultants and engineers to consider installing grabbar devices on our barges as another layer of protection against going overboard. We will champion barge construction safety standards aimed at reducing the risk of personal injury and fall-overboard events across the industry.

Our two contractor fatalities occurred in January and July of 2009. One contractor died while unloading pole sections during the rebuilding of a transmission line. Another contractor was fatally injured while acting as

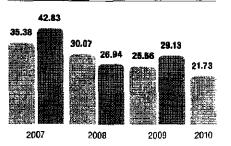
EMPLOYEE SAFETY & HEALTH "PATH TO EXCELLENCE"





Recordable injury rate = total deaths + lost work injuries + lost work illnesses x 200,000 \div hours worked

Injury Severity Rates



Average severity rate = lost work days + restricted activity days x 200,000 \div hours worked

Si Annual Targets based on EEI Index

a spotter for a backing vehicle. We are working more closely with our contractors to share our safety culture and expectations with them. We hold a contractor safety summit each year that is attended by hundreds of contractors and senior management. Our selection process and contract terms and conditions also spell out safety and health expectations, and we conduct job site audits to ensure compliance. We have removed contractors from bid lists and job sites for noncompliance.

The number of injuries among our contractors is declining. We set a contractor recordable injury goal for the first time in 2009 that is tied to our executives' compensation, and contractors outperformed

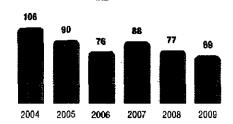
it. This goal applies only to contractors working directly for AEP.

Public fatalities are more difficult to address because we have no direct control over what the public does. We use paid advertisements, the news media, videos, online learning tools, training sessions and social networks to educate the public about electrical safety. Yet nine people died in 2009 after corning into contact with electrical facilities. We will continue our outreach and public safety education to help us achieve our public safety goals.

While we mat our employee "Path to Excellence" recordable injury target, we missed the target when hearing loss incidents are included. Because hearing loss is usually a long-term occurrence, it is not currently in our incentive compensation plans. However, we monitor hearing loss very closely and hold ourselves accountable for continually improving our hearing conservation activities. In 2009, our injury severity rate also exceeded our target. Employees incurred more lost work days in 2009 than in 2008 because of slips, trips, falls and incidents of being struck by objects, which continued to be the leading causes of injury. Injuries tend to occur most frequently in late morning and early afternoon, suggesting that employees may be distracted before and after their lunch break.

We foster a zero harm culture by celebrating employees and work groups who demonstrate exemplary safety performance and who provide life-saving assistance. The first John P. DesBarres Safety & Health Award was given in 2010 to our transmission business unit for exemplary safety and health performance. The award honors John DesBarres, an AEP board member who died in December 2008 and was a staunch advocate of making AEP

NUMBER OF RECORDABLE INJURIES SYSTEMWIDE CAUSED BY SLIPS/TRIPS/FALLS



a safer place to work.

Our transmission group improved both safety and operational performance by embracing the error-reduction methods of the Human Performance initiative. By focusing on reducing errors, we reduced the number of recordable injuries as well as customer outages caused by transmission station switching errors.

The Chairman's Life Saving Award recognizes employees for extraordinary efforts in life-threatening situations. It has been presented to 39 employees since 2004, including eight in 2009. Their acts of heroism included rescuing an electrical contact victim who was performing work for a telecommunications company, helping a victim of a head-on vehicle collision who was trapped in her car, and rescuing a boy from a burning apartment building.

We also reinforce a zero harm environment with programs such as peerto-peer coaching, incident reporting, pre-job briefings and clear, unmistakable messages about safety. The Human Performance initiative is one of our most important safety and health efforts. It is directed toward building best practices, reducing mistakes and preventing those that do occur from causing injuries.

AEP formed a corporatewide Human Performance oversight team and steering committee in 2008 and expanded the effort

Actual Performance

in 2009. Our focus on error reduction is having a measurable impact. The severity rate in our Fossil/Hydro generation business unit improved from 32.3 in 2008 to 19.4 in 2009, but we believe this is just the beginning and we intend to continue to improve. In our Transmission business unit, a commitment to Human Performance resulted in a decline in the recordable injury rate from 4.0 a decade ago to nearly 1.0 in 2009. We are finding that when we eliminate errors that can cause injuries, we also eliminate operational errors, which improves our overall performance.

Approximately 2,500 electrical distribution line employees who were trained in Human Performance principles are now learning specific ways to prevent errors and are sharing their knowledge with their coworkers. These employees are adjusting to an environment that encourages them to stop working when they are unsure whether a certain practice or working condition is safe.

As our employees gain a better understanding of the risks in their jobs and what they can do to eliminate them, we must overcome a perception that still exists in, some parts of the company that productivity is more important than safety and health. We have an obligation to deliver safe, reliable electricity to our customers, but never at the expense of safety and health.



Cook Plant employees learn control room operations In a new exact replica of Unit 1's control room that opened last fall.

SPECIFIC SAFETY INITIATIVES

Combustible dust can be a significant workplace hazard, and we are being proactive in our efforts to prevent harm. A U.S. Chemical Safety Board combustible dust hazard study found that nearly 280 dust fires and explosions have occurred in the United States during the past 25 years, resulting in 199 fatalities and more than 700 injuries. Among the types of dust involved were sugar, paper, aluminum, wood, plastic and coal.

We are working closely with the Occupational Safety and Health Administration (OSHA) to validate our compliance with the agency's proposed combustible dust restrictions through audits at our power plants. Because we burn coal, we are aggressively working to comply with the proposed standard. Elements of OSHA's program include electrical and fire protection, ignition control, an emergency action plan, personal protective equipment and hazard communication.

During the past two years, we conducted a study of the potential health hazards of welding, a common task throughout our industry and especially in our power plants. The study, consisting of 555 air samples from various types of welding, is one of the largest ever conducted in the electric utility industry. While study recommendations remain under review, it is apparent that either local exhaust ventilation or respiratory protection will be needed for many of our welding activities in the future. OSHA currently does not have a specific welding exposure regulation, in part because of the difficulty in measuring exposure fume levels.

Mandatory fall restraint devices and 19 other pole safety recommendations from an employee-led team in 2008 resulted in a 56 percent reduction in incidents related to falls from poles, compared with the previous four-year average.

We are reducing the probability of interactions with threatening animals by attaching special codes to customer accounts where such animals are known to be present and with new equipment that



PABLO VEGAS

President & chief operating officer, AEP Texas

"AEP Texas employees are the company's greatest assets. That's why we place a tremendous emphasis on our safety and work cultures. Our safety goal is for every employee to return home in the evening in the same condition in which he or she came to work in the morning. Nothing less will do. Our work culture embraces a skilled, diverse work force. Diversity in all of its varied forms, including experience, ethnicity, age and gender, provides a broader and richer context to our business challenges and opportunities. This, in turn, allows us to understand and serve the many and equally varied needs of our customers to the very best of our abilities."

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gives our employees advance warning.

To help employees avoid some of the common causes of injury, we developed training in safe truck cab and bed access and started a program to prevent slips, trips and other walking hazards through error reduction methods. One-third of all slips and trips become recordable injuries, and these account for approximately 16 percent of recordable events companywide.

A study of AEP work practices showed that if a power line with a safety ground accidentally becomes re-energized, a worker could be exposed to hazardous voltage levels depending on his or her location in relation to the equipment. Consequently, we have stepped up our efforts to encourage workers to wear rubber gloves in those situations, giving them extra protection.

Lifting and rigging practices are another area of concern. At AEP, an employee was killed in late 2006 while using a crane at a power plant. Our analysis found that crane-related policies and new procedures, including training, were inconsistent and outdated across the enterprise. New policies and procedures took effect in January 2010 with a one-year grace period to allow for proper training.

We also are strengthening the process by which safety and health issues are considered when projects are engineered. This will prevent costly future retrofits to achieve safety and health compliance and will provide protection from the start. AEP's Safety and Health team works closely with Engineering and other functions to review designs of new construction projects. In addition, several safety- and health-related factors have already been incorporated into design standards for new construction. The end result will be a safer work environment.

A safer environment has resulted from

converting boilers at coal-fired power plants that are retrofitted for sulfur dioxide control from forced-draft design to balanced-draft design. Any leaks that occur in the boiler at these plants now introduce outside air into the boiler rather than causing gases and ash to leak out. The equipment and vicinity do not become contaminated, creating a much safer, cleaner work area,

Our effort to conform our power plants to environmental, safety and health management systems standards will help us move toward zero harm. These systems will help ensure that our policies and procedures are accurately documented. In so doing, they will enable us to capture the knowledge and practices of our experienced employees, many of whom are nearing retirement.

DEALING WITH H1N1

The threat of the H1N1 virus has been a challenge for AEP as it has been for other companies. The virus ultimately has had little impact on our operations except for a somewhat higher-than-usual level of absences. Cases of the flu— including H1N1 and seasonal flu— reached a three-year peak in 2009, totaling 947, according to AEP's Human Resources Recovery Center. Seasonal flu vaccines were

administered to approximately 13,325 employees, spouses and domestic partners in 2009 during company-sponsored health screenings. We also provided H1N1 vaccines as soon as they became available to us in 2010.

PROTECTING THE PUBLIC

Zero harm includes no harm to the public. Although it is more difficult to reach the public with safety information, we have initiated a significant outreach and education campaign that we believe will move us closer to our goal. We know this will take time, and that is why we have set a Path to Excellence for public safety. It is imperative that we succeed: All of the nine public fatalities and 34 electrical contacts that occurred in 2009 could have been prevented had basic electrical safety practices been followed.

Copper theft declined in 2009, possibly because of declining copper prices and increased public education. While none of the fatalities last year involved copper theft, two of the electrical contacts did. However, we are starting to see an increase in copper theft in some parts of our service territory, and we are stepping up our public education and outreach efforts to address this.

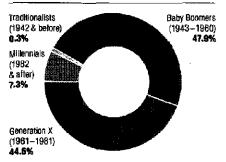
2009 EMPLOYMENT DATA - EEO-1 (as of Aug. 31, 2009)

	Employees	Females (%)	Minorities (%)
Total Employment		4,013 (18.5%)	3,174 (14.6%)
Officials & Managers	3,629	382 (10.5%)	305 (8.4%)
Professionals	5,544	1,450 (26.2%)	836 (15.1%)

2008 EMPLOYMENT DATA - EEO-1 (as of Aug. 31, 2008)

	Employees	Females (%)		Minoritles (%)	
Total Employment	22,746	4,119	(18.1%)	3,433	(15.1%)
Officials & Managers	3,711	368	(9.9%)	319	(8.6%)
Professionals	5,625	1 ,45 6	(25.9%)	827	(14.7%)

2009 AEP WORK FORCE DEMOGRAPHICS



WORKING TOWARD A SUSTAINABLE WORK FORCE

AEP's future success hinges largely on the availability of a skilled, motivated and diverse work force. Many challenges face us, from employee retention and morale to ensuring that employees have the skills to perform the required work in an everchanging environment. We strive to be certain we have the resources and tools to succeed in the decades ahead despite uncertainty about the economic, policy and regulatory landscape.

ATTRACTING & RETAINING TALENT

Our work force is aging, which increases the risk of a talent shortage in the future. For the past five years, the average age of our retirees has been 60 or 61. Today, the average age of our employees is 45.9 years. The economic downturn has delayed some retirements and reduced hiring and advancement opportunities. Even so, we expect to reduce our work force by 5 percent to 10 percent in 2010 to better align our company to the new economic realities.

Elimination of a merit pay increase in 2009 and the relatively small increase planned for 2010 also could affect our future ability to offer a competitive compensation package to prospective and current employees. Given these challenges, we are working to retain an optimal, productive and engaged work force. For employees seeking advancement and development, we continually explore opportunities to offer job rotations, temporary "job swaps" and developmental tasks that usually are not part of a particular job.

We remain hopeful the economic recovery will pick up steam and we are seeing some companies begin to hire again. The risk we face is that they may try to hire away our best performers. We continue to offer employee development programs and to put a strong emphasis on AEP's Performance Review and Feedback process, which focuses on goal alignment, employee engagement and developing a culture of accountability.

Read more about work force development at www.AEPsustainability.com.

VALUING DIVERSITY

We recognize that a diverse work force gives us the best opportunity to succeed. The greater the variety of ages, cultures, backgrounds and skills brought to a project or task, the greater the likelihood the best possible decisions will be made.

One-third of our employees are minorities or females. In 2009 as in past years, we set diversity targets for females and minorities for management, professional and front-line employees. Placement rates in four of the six job categories exceeded

ORGANIZED LABOR AT AEP

Labor Union	Number of Employees	
International Brotherhood		
of Electrical Workers		
Utility Workers Union of A	merica 1,342	
United Steelworkers of A	merica	
United Mine Workers of A	merica	
International Union of Op	erating Engineers2	



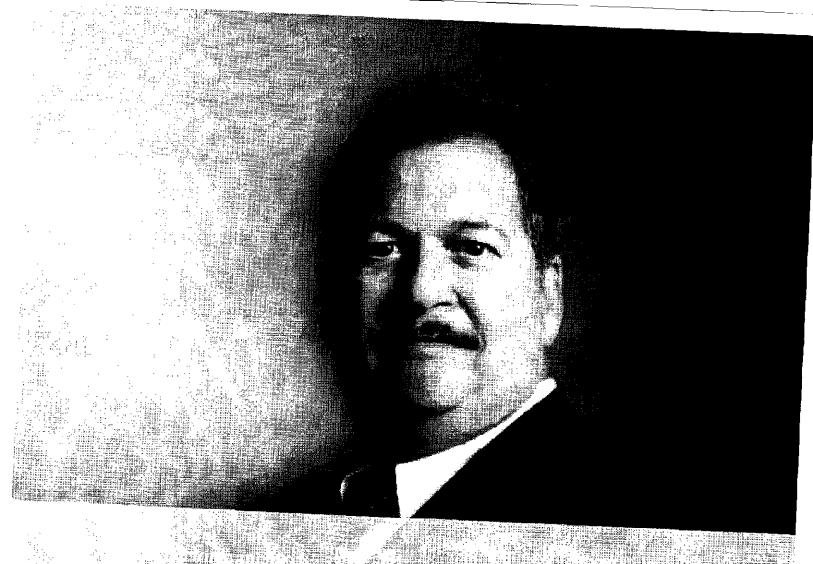
Jenny Goodman, an AEP electrical contractor, works on the Mountaineer CCS project.

target, but two fell short. For the first time ever, we met our placement target for females in front-line jobs, even though the 2009 level of hiring from outside the company was lower than usual. We were just shy of target in that job category for minorities. But we were far from target in the placement rate for minorities in management-level posts.

Our efforts to increase diversity will continue, and we expect the progress we've made to be sustainable.

WORK/LIFE BALANCE

Employees and prospective employees view AEP's more than 30 work/life programs as an important benefit. Among them are flexible work schedules for some jobs, parental leave, alternative family benefits and a wellness program. In the second year of our "AEP Wellness... Energy for Life" program, approximately 39 percent of eligible employees and their spouses or domestic partners completed health risk assessments. The participants learn about health risks and can take advantage of programs to help address them.



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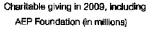
66 Federal support for energy assistance and weatherization is at an all-time high. But despite our progress, neither the federal and state governments nor the utility and nonprofit sectors, by themselves, can solve the problem of unaffordable energy for low-income customers. **99**

David Fox, executive director, National Low Income Energy Consortium.

42 / Social Performance: Stakeholder Eugagement.

Live employee webcasts to keep management connected to employees





\$23.4

Number of stakeholder meetings in 2009 Approximate number of investors we met with during 2009

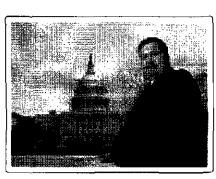


As a provider of an essential service, we hold a public trust that requires a level of accountability and openness. We operate in a world that is far more interdependent than ever before. Like many companies, we deal with controversial and complex issues that have a real impact on people's lives, beyond the power that we provide.

Many groups and individuals have a legitimate stake in our business. We believe that open, trusting relationships with our investors, our community leaders and other stakeholders are critical to our credibility and our business success. Our stakeholders make us stronger and more resilient by:

- Keeping us well-informed about issues of concern and interest to people who make a difference to us.
- Providing us with important insights and points of view that we may not have fully considered on our own.
- Giving us an opportunity to discuss our points of view and, in some cases, to be persuasive about them.
- Helping us to find common ground and gain assistance in advancing common objectives.
- Providing us with incentives and additional accountability for commitments and performance.
- Reinforcing our integrity by knowing that what we say and do will be held up to public scrutiny.

Stakeholder engagement has helped us to transform one-way communication



David Fox of the National Low Income Energy Consortium works with utilities, government and nonprofits to address energy affordability issues.

into two-way communication, dialogue into working relationships, and working relationships into partnerships. It has changed our culture; we are less inwardly focused and more externally focused. Engagement is considered a core competency and a matter of material import to our company.

HOW WE ENGAGE

We engage with a number of stakeholders on many levels, from face-toface meetings to conferences and social networking sites, conference calls and briefings on specific topics. We have a dedicated sustainability website (www. *AEPsustainability.com*) to report on our activities, and our operating companies also hold stakeholder meetings to address state and local issues.

To fulfill a commitment to report more frequently about progress on our sustainability issues, we recently published our first Web-based mid-year update on key commitments and will continue to do so semiannually. We are expanding our channels of engagement to enable us to reach many more people who have an interest in our business.

For the past four years, we have collaborated with Ceres, a national network of investors, environmental organizations and other public interest groups working with companies and investors, to address sustainability challenges. Ceres facilitates a multi-stakeholder meeting with AEP executives at our Columbus, Ohio, headquarters. Our discussions typically focus on climate change, the future of coal, and energy efficiency. In 2009, we expanded our discussions to include water risks. Stakeholders who participate represent environmental organizations, labor, socially responsible investors (SRI) and other public interest groups.

This year marked the team's fourth meeting with AEP, giving us an opportunity to review our progress as well as to discuss areas where we still have work to do. We talked about our business strategy and how it is evolving as we prepare for a transformation of the electric utility industry. We agreed to further clarify our strategy and to convene a stakeholder conference call later this year to provide an update. We recognize we need to be clearer about where we stand on some issues to keep the dialogue going and prevent misperceptions.

THE ISSUES ON WHICH WE ENGAGE We have begun to focus intently on specific

STAKEHOLDER PROFILES

We held an unprecedented stakeholder meeting on coal issues and the environmental, safety and health performance of our coal suppliers in 2009 as we brought together 10 coal suppliers, environmental groups, regulators and community leaders. The meeting was based on a supplier survey we conducted, but much of the conversation also focused on mountaintop removal mining. We invited two stakeholders from that meeting to share their views about coal in this report.

BILL RANEY, president of the West Virginia Coal Association



"Coal is truly the answer to America's long-term security. Coal practices have significantly improved over the last 40 years; and that demonstrates our ability and ambition to mine and ship coal in a safe manner while advancing environmental stewardship. If those who oppose coal would focus their energy on making coal a better resource, the entire world would benefit. Prohibiting mining and coal use would have detrimental effects on our economy."

MATT WASSON, director of programs, Appalachian Volces

"Since the industrial revolution, coal has played a central role in improving the quality of life of Americans and people across the world. Looking ahead, it will continue to play a transitional role as America begins to face the economic and environmental imperative of shifting to a clean energy economy. However, we should never call coal 'clean' without accounting for the huge range of health and environmental costs associated with the complete life cycle of coal, from mining and transportation to the disposal of post-combustion waste. Until the most destructive mining



practices like mountaintop removal in Appalachia are eliminated, the subject of coal will remain controversial and polarizing in the debate over America's energy future."

Read more about the perspectives shared by these stakeholders at www.AEPsustainability.com.

issues that our public policy stakeholders have repeatedly said are most important to them, including energy efficiency, global climate change, the cost of electricity and conservation. These are high priorities for us as well. We agree that energy efficiency is an important tool that can delay the construction of new power plants. We work with state-based collaboratives of utilities, regulators, environmental and community groups and customers to identify and develop energy efficiency programs in Ohio, Indiana, West Virginia, Kentucky and Texas. In all of our jurisdictions where we are implementing energy efficiency, we have programs designed specifically to target low-income customers. In some programs, we partner with local weatherization agencies that are trained to provide education and energy efficiency resources directly to customers. AEP Ohio, for example, distributed approximately 20,000 energy efficiency kits this way.

We are creating an external Energy Efficiency Advisory Council of experts from manufacturing, trade groups, home builders, government, nongovernment agencies and others willing to work with us to address this issue. We will report on our progress.

Engagement in Action

ENGAGING OUR INVESTORS

Our success as an investor-owned electric utility includes a track record of 100 years of paying dividends to our shareholders and is grounded in our ability to continue delivering reliable, reasonably priced electricity. Approximately 70 percent of our outstanding shares are owned by investors who have an investment horizon of greater than two years. Because of this, we hope that these investors understand our commitment to being a sustainable company is also in their long-term financial interest. Our challenge remains that many investors and analysts still focus on quarterly earnings rather than long-term performance related to sustainability. Analysts are beginning to pay attention to sustainability issues, particularly environmental issues. However, generally they are not factoring them into their recommendations with any regularity, unlike SRIs.

We continue to explain our sustainability agenda with traditional investors while also meeting the social objectives of SRIs. We make an effort to increase AEP's inclusion in various sustainability-focused market indexes. In January 2010, we learned that AEP was included in the Maplecroft Climate Innovation Index (CII) Leaders, which includes the top 100 performers in the Maplecroft CII. This index evaluates and rates company performance in climaterelated innovation and carbon management. Read more about our investor outreach at www.AEPsustainability.com.

CONNECTING WITH CUSTOMERS

Customer communications is a critical issue. Our customer service centers handle approximately 50,000 calls daily; in 2009, we responded to 17.8 million calls. When customers called us in 2009, they waited an average of 48 seconds before speaking with an AEP representative — up slightly from 47 seconds in 2008. Many more customers reached us online through our customer service websites. In 2009, registered customers logged in more than 2 million times to conduct business.

We receive quarterly data on customer satisfaction from Market Strategies International, an independent vendor that conducts benchmarking for a peer group of more than 100 electric and gas utilities. In 2009, five of AEP's seven operating companies placed in the first quartile relative to the national peer group in residential overall satisfaction; six of our operating companies placed in the first quartile for commercial overall satisfaction.

We saw the economic downturn affect our customers in 2009. While customer consumption of electricity declined, more customers had difficulty paying their bills. Account delinquencies among residential

ASSISTANCE PROVIDED IN 2009 TO HELP CUSTOMERS PAY THEIR ELECTRIC BILLS

Company	Government Programs	Private Programs	Total Funds
Appalachian Power	\$35,278,265	\$655,129	\$35,933,394
Kentucky Power	\$4,334,503	_	\$4,334,503
Indiana Michigan Power	\$9,192,443	\$52,438	\$9,244,88 1
AEP Ohio	\$18,991,427	\$2,111,842	\$21,103,269
Public Service Company of Oklahom	na \$8,451,354	\$1,964,409	\$10,415,763
Southwestern Electric Power Co.	\$4,784,118	\$348,461	\$5,132,579
Totals	\$81,032,110	\$5,132,279	\$86,164,389

customers increased 6 percent from 2008. The hardship was not so severe for nonresidential customers, whose average definquent account balances declined 7 percent from 2008.

As a result, we increased our support for low-income energy assistance programs. The primary source of assistance for lowincome customers is LIHEAP. In 2009, AEP customers received more than \$86 million from these programs. The total assistance received by customers was approximately 91 percent higher than in 2008.

The primary reason for this unusual increase was that LIHEAP became fully funded at \$5.1 billion for the first time in history during the 2008–2009 heating season. In prior years, funding for this program ranged between \$1.8 billion and \$3 billion.

ENGAGING OUR EMPLOYEES

Our employees are our most valuable resource and our most passionate advocates; we stay connected with them

2009 CUSTOMER SATISFACTION RESULTS

Survey Type	% Satisfied	Quartile Ranking vs. National Peer Group	
Residential	83.8%	151	
Commercial	90.9%	1st 🔔	
Managed/Key Accounts	79.7%	1st	
Call Center Transactions	87.4%	NA	

in many ways — new and old. We now host 12 internal blogs — twice what we had in 2008 — that give employees an additional opportunity to voice their opinions and that allow our leaders and managers to respond or introduce topics of their own. One blog is hosted by Mike Morris, our chairman, president and chief executive officer. He focuses on the company's performance as well as how factors such as the economy or global climate change are affecting the company. Other blogs are devoted to sustainability, ethics and compliance, transmission and other business issues.

We held our first employee Sustainability Awareness Week in 2009 to highlight our material issues and how they relate to AEP's sustainability. More than 60 events at 38 work locations in nine states were held, including test drives of Plug-in Hybrid Electric Vehicles, health screenings, electronic equipment recycling, developing energy efficiency e-cards, and town hall meetings. As a result of these and other activities, 67 percent of employees who responded to a follow-up survey said they understood AEP's strategy for sustainability and how they contribute to it.

ENGAGING OUR COMMUNITIES

Our employees donated more than 78,000 hours of volunteer service to dozens of

organizations and educational institutions on their own time during 2009. We support these activities with \$150 AEP Connects volunteer grants to an organization to which an employee has donated at least 40 hours during the year. We made 894 grants totaling more than \$134,000 in 2009. The hours donated by our employees have an economic value of more than \$1.5 million (using the Independent Sector estimated value of volunteer time of \$20,25 per hour) and an indirect contribution that is much greater.

Education is an important community endeavor, and we provide small grants to teachers to support them in the classroom. These Teacher Vision Grants range from \$100 to \$500 and are provided to educators in grades pre-K through 12 who live or teach in AEP's service area or in communities with major AEP facilities. In 2009, we awarded nearly \$53,000 in Teacher Vision Grants.

ENGAGING POLICY LEADERS

Being a large, highly regulated electric utility requires us to engage frequently with policymakers, legislators and other elected officials as well as regulators. We do so at the federal, state and local levels. We also engage internationally through the e8, at the international climate change negotiations, and through the World Business Council for Sustainable Development. Read more about our engagement with policy leaders in *Public Policy*.

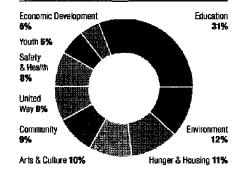
CONTRIBUTING TO ECONOMIC PROSPERITY

We are committed to the prosperity of the communities we serve and in which we operate. Our operating companies partner with state and local organizations to provide economic development grants and work with communities and other companies to create jobs and spur economic growth. In 2009, we provided more than \$1 million to nearly 200 organizations. Learn about our efforts at www.AEPsustainability.com.

CHARITABLE GIVING

In addition to economic development grants, in 2009 the company and the American Electric Power Foundation provided more than \$23.4 million in charitable giving. These social investments are most important during difficult economic times, particularly in communities hit hardest by the recession. We donated \$11.8 million to hundreds of local and nonprofit organizations. The AEP Foundation contributed \$11.6 million to 111 organizations.

2009 GIVING BY AREA OF FOCUS



TOTAL PHILANTHROPIC GIVING (Corporate and AEP Foundation)

State	2009
Arkansas	\$354,920
Indiana	\$2,228,16 4
Kentucky	\$650,000
Louisiana	\$421,884
Michigan	\$1,257,338
Ohio	\$10,434,443
Oklahoma	\$843,409
Tennessee	\$30,048
Texas	\$2,315,510
Virginia	\$2,160,028
West Virginia	\$1,060,218
Other*	\$1,662,209
Total	\$23,418,171
* Giving to organizations outsid	e AEP's service area

or those that benefit multiple states



TIM MOSHER

President & chief operating officer, Kentucky Power Co.

"Reliability and reasonable pricing are two of the most important aspects of providing service to our customers. Our customers expect consistent, safe and reliable service at an affordable price. It is important for us to regularly measure how we're doing relative to those expectations with satisfaction surveys. Listening to our stakeholders' perspectives is another excellent way to understand how our performance is perceived. It makes sense for us to do that; to operate in a vacuum would be a colossal mistake."

Corporate & Shareholder Information

Corporate Headquarters 1 Riverside Plaza Columbus, OH 43215-2373 614-716-1000 AEP is incorporated in the State of New York.

Stock Exchange Listing: The Company's common stock is traded principally on the New York Stock Exchange under the ticker symbol AEP.

Internet Home Page: Information about AEP, including financial documents, Securities and Exchange Commission fillings, news releases, investor presentations, shareholder information and customer service information, is available at www.AEP.com.

Inquiries Regarding Your Stock Holdings: Registered shareholders (shares that you own, in your name) should contact the Company's transfer agent, listed below, if you have questions about your account, address changes, stock transfer, lost certificates, direct deposits, dividend checks and other administrative matters. You should have your Social Security number or account number ready, the transfer agent will not speak to third parties about an account without the shareholder's approval or ap-

Transfer Agent & Registrar

propriate documents.

Computershare Trust Company, N.A. P.O. Box 43078 Providence, RI 02940-3078 Telephone Response Group: 1-800-328-6955 Internet address: www.computershare.com/Investor Hearing Impaired #: TDD: 1-800-952-9245

Beneficial Holders: (Stock held in a bank or brokerage account) --

When you purchase stock and it is held for you by your broker, it is listed with the Company in the broker's name, and this is sometimes referred to as "street name" or a "beneficial owner." AEP does not know the identity of individual shareholders who hold their shares in this manner; we simply know that a broker holds a certain number of shares which may be for any number of customers. If you hold your stock in street name, you receive all dividend payments, annual reports and proxy materials through your broker. Therefore, questions about your account should be directed to your broker.

Dividend Reinvestment & Direct Stock Purchase Plan: A Dividend Reinvestment and Direct Stock Purchase Plan Is available to all investors. It is an aconomical and convenient method of purchasing shares of AEP, common stock, through initial cash investments, cash dividends and/or additional optional cash purchases. You may obtain the Plan prospectus and enrollment authorization form by contacting the transfer agent.

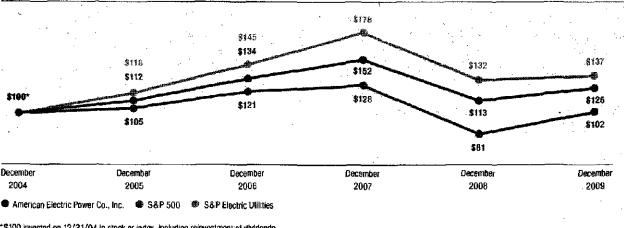
Financial Community Inquiries: Institutional investors or securities analysts who have questions about the Company should direct inquiries to Bette Jo Rozsa, 614-716-2840, *birozsa@AEP.com*; Julie Sherwood, 614-716-2863, *jasherwood@AEP.com*; or Jana Croom, 614-718-3175, *jtcroom@AEP.com*; Individual shareholders should contact Kathleen Kozero, 614-716-2819, *ktkozero@AEP.com*.

Number of Shareholders: As of Dec. 31, 2009, there were approximately 96,000 registered shareholders and approximately 271,000 shareholders holding stock in street name through a bank or broker. There were 478,054,407 shares outstanding at Dec. 31, 2009.

Form 10-K: Upon request, we will provide without charge a copy of our Form 10-K for the fiscal year ended Dec. 31, 2009. A copy can be obtained via mail with a written request to AEP Investor Belations, by telephone at 1-800-237-2667 or electronically at *klkozerc@AEP.com*.

COMPARISON OF FIVE-YEAR CUMULATIVE TOTAL RETURN

Among American Electric Power Co., Inc., The S&P 500 Index & The S&P Electric Utilities Index



*\$100 invested on 12/31/04 in stock or index, including reinvestment of dividends. Fiscal year ending Dec. 31.

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Key: CAR 2010 = Report Page Number EU = Electric Utility Sector Supplement

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FORWARD-LOOKING INFORMATION

This report made by AEP and its Registrant Subsidiaries contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934. Although AEP and each of its Registrant Subsidiaries believe that their expectations are based on reasonable assumptions, any such statements may be influenced by factors that could cause actual outcomes and results to be materially different from those projected. Among the factors that could cause actual results to differ materially from those in the forward-looking statements are:

- The economic climate and growth in, or contraction within, our service
- territory and changes in market demand and demographic patterns.
- Inflationary or deflationary interest rate trends.
- Volatility in the financial markets, particularly developments affecting the availability of capital on reasonable terms and developments impairing our ability to finance new capital projects and refinance existing debt at attractive rates.
- The availability and cost of funds to finance working capital and capital needs, particularly during periods when the time lag between incurring costs and recovery is long and the costs are material.
- Electric load and customer growth.
- Weather conditions, Including storms, and our ability to recover significant storm restoration costs through applicable rate mechanisms.
- Available sources and costs of, and transportation for, fuels and the creditworthiness and performance of fuel suppliers and transporters.
- Availability of necessary generating capacity and the performance of our generating plants.
- Our ability to recover I&M's Donaid C. Gook Nuclear Plant Unit 1 restoration costs through warranty, insurance and the regulatory process.
- Our ability to recover regulatory assets and stranded costs in connection with deregulation.
- Our ability to recover increases in fuel and other energy costs through regulated or competitive electric rates.
- Our ability to build or acquire generating capacity, including the Turk Plant, and transmission line facilities (including our ability to obtain any necessary regulatory approvals and permits) when needed at acceptable prices and terms and to recover those costs (including the costs of projects that are cancelled) through applicable rate cases or competitive rates.
- New legislation, litigation and government regulation, including requirements for reduced emissions of sulfur, nitrogen, mercury, carbon, soot or particulate matter and other substances or additional regulation of fly ash and similar combustion products that could impact the continued operation and cost recovery of our plants.

- Timing and resolution of pending and future rate cases, negotiations and other regulatory decisions (including rate or other recovery of new investments in generation, distribution and transmission service and environmental compliance).
- Resolution of litigation (including our dispute with Bank of America).
- Our ability to constrain operation and maintenance costs.
- Our ability to develop and execute a strategy based on a view regarding prices of electricity, natural gas and other energy-related commodities.
- Changes in the creditworthiness of the counterparties with whom we have contractual arrangements, including participants in the energy trading market.
- Actions of rating agencies, including changes in the ratings of debt.
- Volatility and changes in markets for electricity, natural gas, coal, nuclear fuel and other energy-related commodities.
- Changes in utility regulation, including the implementation of ESPs and related regulation in Ohio and the allocation of costs within regional transmission organizations, including PJM and SPP.
- Accounting pronouncements periodically issued by accounting standard-setting bodies.
- The impact of volatility in the capital markets on the value of the investments held by our pension, other postretirement benefit plans and nuclear decommissioning trust and the impact on future funding requirements.
- Prices and demand for power that we generate and sell at wholesale.
- Changes in technology, particularly with respect to new, developing or alternative sources of generation.
- Other risks and unforeseen events, including wars, the effects of terrorism (including increased security costs), embargoes and other catastrophic events.

AEP and its Registrant Subsidiaries expressly disclaim any obligation to update any forward-looking information.

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American Electric Power 1 Riverside Plaza Columbus, OH 43215 614-716-1000 www.AEP.com

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