

BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Columbus)
Southern Power Company and Ohio Power)
Company for Authority to Recover Costs) Case No. 05-376-EL-UNC
Associated With Construction and Ultimate)
Operation of an Integrated Gasification)
Combined Cycle Electric Generating Facility)

DIRECT TESTIMONY OF
ANDREA E. MOORE
ON BEHALF OF
OHIO POWER COMPANY

Filed: October 23, 2014

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ANDREA E. MOORE

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BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO
DIRECT TESTIMONY OF
ANDREA E MOORE
ON BEHALF OF
OHIO POWER COMPANY

1 **PERSONAL DATA**

2 **Q. WHAT IS YOUR NAME AND BUSINESS ADDRESS?**

3 A. My name is Andrea E. Moore and my business address is 850 Tech Center Drive,
4 Gahanna, Ohio 43230.

5 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

6 A. I am employed by Ohio Power Company (“AEP Ohio” or the “Company”) as Director -
7 Regulatory Services.

8 **Q. WHAT ARE YOUR RESPONSIBILITIES AS DIRECTOR – REGULATORY
9 SERVICES?**

10 A. I am responsible for directing the preparation and presentation of regulatory matters to
11 management as well as regulatory bodies. I plan, organize, and direct team activities to
12 develop and support pricing structures, rider and true-up filings, maintenance of tariffs,
13 pilot programs, special contracts, and other pricing initiatives depending on my assigned
14 function.

15 **Q. WHAT IS YOUR EDUCATIONAL AND PROFESSIONAL BACKGROUND?**

16 A. I received my Bachelor of Science in Accounting degree from the University of Rio
17 Grande. I completed the Basic Concepts of Rate Making class through New Mexico State
18 University. I earned a Master of Business Administration degree from Franklin
19 University. I joined American Electric Power Service Corporation in 2001 as an

1 Accountant and joined the Regulatory Tariffs department as a Regulatory Analyst III in
2 2004. I progressed through various positions before being promoted to my current
3 position of Director - Regulatory Services. My duties within the regulatory department
4 have included preparing cost-of-service studies for regulatory filings, preparing cost-based
5 formula rates for wholesale customers, preparing rider filings and rate designs,
6 maintaining tariff books, as well as other projects related to regulatory issues and
7 proceedings, individual customer requests, and general rate matters.

8 **Q. HAVE YOU PREVIOUSLY TESTIFIED IN A REGULATORY PROCEEDING?**

9 A. Yes. I have testified before the Public Utilities Commission of Ohio in Case Nos. 13-
10 1406-EL-RDR and 13-2385-EL-SSO/13-2386-EL-AAM.

11 **PURPOSE OF TESTIMONY**

12 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

13 A. The purpose of my testimony is to support the rate design of the credit rider for refunding
14 to customers revenues that AEP Ohio collected through Phase I surcharges in excess of
15 the amounts the Company reasonably incurred through Phase I activities related to the
16 integrated gasification combined cycle (IGCC) project at Great Bend, Meigs County,
17 Ohio. My testimony also discusses the appropriate interest rate to be applied to that
18 refund.

19 **DESIGN OF THE CREDIT RIDER**

20 **Q. PLEASE EXPLAIN HOW AEP OHIO DETERMINED THE AMOUNT OF THE**
21 **REFUND.**

22 A. Exhibit AEM-1 shows the calculation of the refund amount of \$4,741,595.51. This
23 amount is based on the total IGCC Phase I costs, as supported by Company witnesses

1 Whitney and Duellman, of \$20,570,062.56, less the billed IGCC revenue of
2 \$24,239,988.86, as determined by the Company's records. The total over recovery is
3 \$3,669,926.30 plus carrying charges, discussed below, of \$1,071,669.21, for a total of
4 \$4,741,595.51. These calculations are based on carrying charges through December
5 2014. The Company recommends that the refund occur in January 2015.

6 **Q. PLEASE EXPLAIN THE DESIGN OF THE CREDIT RIDER THAT AEP OHIO**
7 **PROPOSES IN THIS PROCEEDING.**

8 A. The credit rider, as proposed, is designed as a non-by-passable charge to be passed back
9 in one month. Because the Company is proposing to pass back the refund in one month,
10 the residential class will be credited on a per bill basis due to weather sensitive load. All
11 other tariff schedules will be refunded through a per kilowatt hour (kWh) charge. The
12 Company has calculated the amount of the refund to be \$4,741,595.51 as shown on
13 Exhibit AEM-1. Exhibit AEM-2 shows the calculation of the credit rider for each
14 customer class. The amount of the refund to each class is allocated based on the
15 percentage of the IGCC rider billed to each class. Any over/under recovery resulting from
16 the IGCC refund will need to be adjusted in a future rider case.

17 **INTEREST RATE USED IN CARRYING CHARGE CALCULATION**

18 **Q. WHAT RATE DID THE COMPANY USE TO CALCULATE CARRYING**
19 **CHARGES?**

20 A. The Company has calculated carrying charges based on the customer deposit rate. The
21 customer deposit rate was 5% and 5.25% for Columbus Southern Power Company (CSP)
22 and Ohio Power Company (OPCo), respectively, through December 2011. Since January

1 2012, upon the approval in the Company's base distribution case, the deposit rate for both
2 the CSP and OPCo rate zones is 3%.¹

3 **Q. WHY DID THE COMPANY USE THE CUSTOMER DEPOSIT RATE TO**
4 **CALCULATE CARRYING CHARGES?**

5 A. First, the rate stated in the Company's tariff, as approved by the Commission, represents
6 a fair payment for holding customer funds. The Company was not required or ordered to
7 apply a rate to customer funds held, but it voluntarily chose to do so. As such, the
8 Company's proposal to use the customer deposit rate is appropriate here.

9 Second, this rider was never intended to be long-term. In fact, on June 29, 2011, the
10 Company filed an application in this case to refund the over-recovered amount to
11 customers based on September 2011 forecasted kWh. No party objected to or
12 commented on the rate used for calculating carrying charges at that time. It was the
13 Company's intent to refund the amount then, in one month, for carrying charges
14 calculated through September, 2011. Since that time, the Company has continued to
15 record a liability for the amount of accumulated carrying charges at the customer deposit
16 rate. Those additional carrying charges total \$367,959.04, as shown on exhibit AEM-1.

17 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

18 A. Yes.

¹ CSP and OPCo merged effective December 31, 2011, with OPCo remaining as the surviving entity. OPCo has maintained separate rate zones that correspond to OPCo's and CSP's pre-merger certified territories.

**Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs**

Line No. Columbus Southern Power		2005	
		Nov Actual	Dec Actual
1	IGCC Costs	2,266,756.62	1,081,028.57
2	Less: Rider Collections	0.00	0.00
3	Net (Over)/ Under Collection	2,266,756.62	1,081,028.57
4	Cumulative Net (Over)/ Under Collection	2,266,756.62	3,347,785.19
5	Monthly Carrying Charge Rate	0.4167%	0.4167%
6	Monthly Carrying Charge	0.00	0.00
7	Carrying Charge Balance	0.00	0.00

Line No. Ohio Power		2005	
		Nov Actual	Dec Actual
8	IGCC Costs	2,266,756.62	1,081,027.83
9	Less: Rider Collections	0.00	0.00
10	Net (Over)/ Under Collection	2,266,756.62	1,081,027.83
11	Cumulative Net (Over)/ Under Collection	2,266,756.62	3,347,784.45
12	Monthly Carrying Charge Rate	0.4375%	0.4375%
13	Monthly Carrying Charge	0.00	0.00
14	Carrying Charge Balance	0.00	0.00

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2007											
Line No.	Columbus Southern Power	Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual
1	IGCC Costs	46,329.71	63,964.81	130,723.23	59,921.39	61,139.20	29,465.33	48,653.02	54,093.39	16,774.04	18,867.17	13,283.05	19,057.44
2	Less: Rider Collections	1,079,289.26	1,072,619.64	1,059,522.46	974,234.50	890,618.91	1,051,177.88	141,381.79	417.39	3,276.07	(63.89)	174.31	95.64
3	Net (Over)/ Under Collection	(1,032,959.55)	(1,008,654.83)	(928,799.23)	(914,313.11)	(829,479.71)	(1,021,712.55)	(92,728.77)	53,676.00	13,497.97	18,931.06	13,108.74	18,961.80
4	Cumulative Net (Over)/ Under Collection	2,809,837.24	1,801,182.41	872,383.18	(41,929.93)	(871,409.64)	(1,893,122.19)	(1,985,850.96)	(1,932,174.96)	(1,918,676.99)	(1,899,745.93)	(1,886,637.19)	(1,867,675.39)
5	Monthly Carrying Charge Rate	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%
6	Monthly Carrying Charge	0.00	0.00	0.00	0.00	(174.72)	(3,631.16)	(7,888.64)	(8,275.04)	(8,051.37)	(7,995.13)	(7,916.24)	(7,861.62)
7	Carrying Charge Balance	0.00	0.00	0.00	0.00	(174.72)	(3,805.89)	(11,694.53)	(19,969.57)	(28,020.94)	(36,016.07)	(43,932.31)	(51,793.93)

		2007											
Line No.	Ohio Power	Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual
8	IGCC Costs	46,328.26	63,963.24	130,721.58	59,919.93	61,137.77	29,464.35	48,652.18	54,092.25	16,773.58	18,866.78	13,282.74	19,056.95
9	Less: Rider Collections	1,043,541.45	1,104,676.24	1,065,482.44	915,000.62	878,800.70	976,749.64	132,308.09	(17.30)	(29.84)	103.31	90.17	0.00
10	Net (Over)/ Under Collection	(997,213.19)	(1,040,713.00)	(934,760.86)	(855,080.69)	(817,662.93)	(947,285.29)	(83,655.91)	54,109.55	16,803.42	18,763.47	13,192.57	19,056.95
11	Cumulative Net (Over)/ Under Collection	3,158,665.28	2,117,952.28	1,183,191.42	328,110.73	(489,552.20)	(1,436,837.49)	(1,520,493.40)	(1,466,383.85)	(1,449,580.43)	(1,430,816.96)	(1,417,624.39)	(1,398,567.44)
12	Monthly Carrying Charge Rate	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%
13	Monthly Carrying Charge	0.00	0.00	0.00	0.00	0.00	(2,141.79)	(6,286.16)	(6,652.16)	(6,415.43)	(6,341.91)	(6,259.82)	(6,202.11)
14	Carrying Charge Balance	0.00	0.00	0.00	0.00	0.00	(2,141.79)	(8,427.95)	(15,080.11)	(21,495.54)	(27,837.46)	(34,097.28)	(40,299.39)

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2008											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	IGCC Costs	5,705.91	8,731.92	2,539.42	3,161.45	7,699.43	1,042.45	1,367.48	1,567.16	1,059.61	1,395.82	1,042.36	449.68
2	Less: Rider Collections	(21.99)	(45.18)	120.57	88.46	(84.69)	(19.98)	(25.42)	16.79	(1.75)	(7.05)	7.56	(42.20)
3	Net (Over)/ Under Collection	5,727.90	8,777.10	2,418.85	3,072.99	7,784.12	1,062.43	1,392.90	1,550.37	1,061.36	1,402.87	1,034.80	491.88
4	Cumulative Net (Over)/ Under Collection	(1,861,947.49)	(1,853,170.39)	(1,850,751.54)	(1,847,678.55)	(1,839,894.43)	(1,838,832.00)	(1,837,439.10)	(1,835,888.73)	(1,834,827.37)	(1,833,424.50)	(1,832,389.70)	(1,831,897.82)
5	Monthly Carrying Charge Rate	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%
6	Monthly Carrying Charge	(7,782.60)	(7,758.74)	(7,722.16)	(7,712.08)	(7,699.28)	(7,666.84)	(7,662.41)	(7,656.61)	(7,650.15)	(7,645.73)	(7,639.88)	(7,635.57)
7	Carrying Charge Balance	(59,576.53)	(67,335.26)	(75,057.43)	(82,769.51)	(90,468.78)	(98,135.62)	(105,798.04)	(113,454.65)	(121,104.79)	(128,750.52)	(136,390.40)	(144,025.97)

		2008											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
8	IGCC Costs	5,705.52	8,731.56	2,539.23	3,161.22	7,699.23	1,042.34	1,367.57	1,567.21	1,059.63	1,395.87	1,042.40	449.71
9	Less: Rider Collections	(57.22)	(0.91)	(2.02)	6.16	(249.47)	(1.69)	197.80	128.58	(22.01)	(2.85)	(0.82)	111.75
10	Net (Over)/ Under Collection	5,762.74	8,732.47	2,541.25	3,155.06	7,948.70	1,044.03	1,169.77	1,438.63	1,081.64	1,398.72	1,043.22	337.96
11	Cumulative Net (Over)/ Under Collection	(1,392,804.70)	(1,384,072.23)	(1,381,530.98)	(1,378,375.92)	(1,370,427.22)	(1,369,383.19)	(1,368,213.42)	(1,366,774.79)	(1,365,693.15)	(1,364,294.43)	(1,363,251.21)	(1,362,913.25)
12	Monthly Carrying Charge Rate	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%
13	Monthly Carrying Charge	(6,118.73)	(6,093.52)	(6,055.32)	(6,044.20)	(6,030.39)	(5,995.62)	(5,991.05)	(5,985.93)	(5,979.64)	(5,974.91)	(5,968.79)	(5,964.22)
14	Carrying Charge Balance	(46,418.12)	(52,511.64)	(58,566.96)	(64,611.16)	(70,641.55)	(76,637.17)	(82,628.22)	(88,614.15)	(94,593.79)	(100,568.70)	(106,537.49)	(112,501.71)

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2009											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	IGCC Costs	1,472.87	833.30	727.79	755.68	590.49	679.46	804.62	1,457.23	(164.88)	573.46	55.80	420.86
2	Less: Rider Collections	(14.40)	(7.98)	(55.30)	(0.70)	0.31	(3.89)	(0.02)	59.89	3.56	2.81	(1.91)	(0.39)
3	Net (Over)/ Under Collection	1,487.27	841.28	783.09	756.38	590.18	683.35	804.64	1,397.34	(168.44)	570.65	57.71	421.25
4	Cumulative Net (Over)/ Under Collection	(1,830,410.55)	(1,829,569.27)	(1,828,786.18)	(1,828,029.80)	(1,827,439.62)	(1,826,756.27)	(1,825,951.63)	(1,824,554.29)	(1,824,722.73)	(1,824,152.08)	(1,824,094.37)	(1,823,673.12)
5	Monthly Carrying Charge Rate	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%
6	Monthly Carrying Charge	(7,633.52)	(7,627.32)	(7,623.82)	(7,620.55)	(7,617.40)	(7,614.94)	(7,612.09)	(7,608.74)	(7,602.92)	(7,603.62)	(7,601.24)	(7,601.00)
7	Carrying Charge Balance	(151,659.49)	(159,286.81)	(166,910.62)	(174,531.17)	(182,148.57)	(189,763.51)	(197,375.61)	(204,984.35)	(212,587.27)	(220,190.89)	(227,792.13)	(235,393.13)

		2009											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
8	IGCC Costs	1,473.03	833.42	727.82	755.88	590.51	679.51	804.80	1,457.40	(164.99)	573.48	55.81	420.88
9	Less: Rider Collections	38.96	(6.49)	(0.80)	3.48	5.31	(0.02)	(3.13)	(4.17)	(12.75)	(4.32)	0.71	0.00
10	Net (Over)/ Under Collection	1,434.07	839.91	728.62	752.40	585.20	679.53	807.93	1,461.57	(152.24)	577.80	55.10	420.88
11	Cumulative Net (Over)/ Under Collection	(1,361,479.18)	(1,360,639.27)	(1,359,910.65)	(1,359,158.25)	(1,358,573.05)	(1,357,893.52)	(1,357,085.59)	(1,355,624.02)	(1,355,776.26)	(1,355,198.46)	(1,355,143.36)	(1,354,722.48)
12	Monthly Carrying Charge Rate	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%
13	Monthly Carrying Charge	(5,962.75)	(5,956.47)	(5,952.80)	(5,949.61)	(5,946.32)	(5,943.76)	(5,940.78)	(5,937.25)	(5,930.86)	(5,931.52)	(5,928.99)	(5,928.75)
14	Carrying Charge Balance	(118,464.46)	(124,420.93)	(130,373.73)	(136,323.34)	(142,269.65)	(148,213.41)	(154,154.19)	(160,091.44)	(166,022.30)	(171,953.82)	(177,882.81)	(183,811.57)

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2010											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	IGCC Costs	57.01	1,223.25	(16.36)	0.00	106.75	1,592.54	81.27	1,662.35	1,209.00	0.00	0.00	0.00
2	Less: Rider Collections	(0.74)	0.03	0.24	(57.79)	100.85	(0.12)	(0.25)	0.00	0.00	0.00	0.00	0.00
3	Net (Over)/ Under Collection	57.75	1,223.22	(16.60)	57.79	5.90	1,592.66	81.52	1,662.35	1,209.00	0.00	0.00	0.00
4	Cumulative Net (Over)/ Under Collection	(1,823,615.37)	(1,822,392.15)	(1,822,408.75)	(1,822,350.96)	(1,822,345.06)	(1,820,752.40)	(1,820,670.88)	(1,819,008.53)	(1,817,799.53)	(1,817,799.53)	(1,817,799.53)	(1,817,799.53)
5	Monthly Carrying Charge Rate	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%
6	Monthly Carrying Charge	(7,599.25)	(7,599.01)	(7,593.91)	(7,593.98)	(7,593.74)	(7,593.71)	(7,587.08)	(7,586.74)	(7,579.81)	(7,574.77)	(7,574.77)	(7,574.77)
7	Carrying Charge Balance	(242,992.37)	(250,591.38)	(258,185.29)	(265,779.26)	(273,373.00)	(280,966.71)	(288,553.79)	(296,140.52)	(303,720.33)	(311,295.10)	(318,869.87)	(326,444.64)

		2010											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
8	IGCC Costs	57.02	1,223.43	(16.36)	0.00	106.75	1,592.67	81.38	1,662.35	1,209.00	0.00	0.00	0.00
9	Less: Rider Collections	(12.29)	11.93	(0.39)	(0.10)	(0.23)	0.00	0.00	0.00	(0.18)	0.00	0.00	(13.54)
10	Net (Over)/ Under Collection	69.31	1,211.50	(15.97)	0.10	106.98	1,592.67	81.38	1,662.35	1,209.18	0.00	0.00	13.54
11	Cumulative Net (Over)/ Under Collection	(1,354,653.17)	(1,353,441.67)	(1,353,457.64)	(1,353,457.54)	(1,353,350.56)	(1,351,757.89)	(1,351,676.51)	(1,350,014.16)	(1,348,804.98)	(1,348,804.98)	(1,348,804.98)	(1,348,791.44)
12	Monthly Carrying Charge Rate	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%
13	Monthly Carrying Charge	(5,926.91)	(5,926.61)	(5,921.31)	(5,921.38)	(5,921.38)	(5,920.91)	(5,913.94)	(5,913.58)	(5,906.31)	(5,901.02)	(5,901.02)	(5,901.02)
14	Carrying Charge Balance	(189,738.48)	(195,665.08)	(201,586.39)	(207,507.77)	(213,429.15)	(219,350.05)	(225,264.00)	(231,177.58)	(237,083.89)	(242,984.91)	(248,885.94)	(254,786.96)

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2011											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	IGCC Costs	0.00	0.00	0.00	471.00	0.00	0.00	568.50	(143,587.19)	0.00	0.00	0.00	\$1,384.50
2	Less: Rider Collections	0.00	0.00	0.00	(0.33)	(14.17)	(2.52)	(3.87)	0.00	0.00	0.00	0.00	\$0.00
3	Net (Over)/ Under Collection	0.00	0.00	0.00	471.33	14.17	2.52	572.37	(143,587.19)	0.00	0.00	0.00	1,384.50
4	Cumulative Net (Over)/ Under Collection	(1,817,799.53)	(1,817,799.53)	(1,817,799.53)	(1,817,328.20)	(1,817,314.03)	(1,817,311.51)	(1,816,739.14)	(1,960,326.33)	(1,960,326.33)	(1,960,326.33)	(1,960,326.33)	(1,958,941.83)
5	Monthly Carrying Charge Rate	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%	0.4167%
6	Monthly Carrying Charge	(7,574.77)	(7,574.77)	(7,574.77)	(7,574.77)	(7,572.81)	(7,572.75)	(7,572.74)	(7,570.35)	(8,168.68)	(8,168.68)	(8,168.68)	(8,168.68)
7	Carrying Charge Balance	(334,019.41)	(341,594.19)	(349,168.96)	(356,743.73)	(364,316.53)	(371,889.28)	(379,462.02)	(387,032.37)	(395,201.05)	(403,369.73)	(411,538.41)	(419,707.09)

		2011											
Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Actual	Actual	Actual	Actual	Forecast	Forecast	Forecast	Forecast	Forecast	Actual	Actual	Actual
8	IGCC Costs	0.00	0.00	0.00	471.00	0.00	0.00	568.50	(143,587.19)	0.00	0.00	0.00	\$1,384.50
9	Less: Rider Collections	0.00	0.00	23.16	0.00	(1.75)	(0.10)	0.00	0.00	23.40	0.00	0.00	(\$0.02)
10	Net (Over)/ Under Collection	0.00	0.00	(23.16)	471.00	1.75	0.10	568.50	(143,587.19)	(23.40)	0.00	0.00	1,384.52
11	Cumulative Net (Over)/ Under Collection	(1,348,791.44)	(1,348,791.44)	(1,348,814.60)	(1,348,343.60)	(1,348,341.85)	(1,348,341.75)	(1,347,773.25)	(1,491,360.44)	(1,491,383.84)	(1,491,383.84)	(1,491,383.84)	(1,489,999.32)
12	Monthly Carrying Charge Rate	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%	0.4375%
13	Monthly Carrying Charge	(5,900.96)	(5,900.96)	(5,900.96)	(5,901.06)	(5,899.00)	(5,899.00)	(5,899.00)	(5,896.51)	(6,524.70)	(6,524.80)	(6,524.80)	(6,524.80)
14	Carrying Charge Balance	(260,687.92)	(266,588.88)	(272,489.84)	(278,390.91)	(284,289.91)	(290,188.91)	(296,087.90)	(301,984.41)	(308,509.11)	(315,033.92)	(321,558.72)	(328,083.53)

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2012											
Line No.		Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual
Columbus Southern Power													
1	IGCC Costs	0	0	-18575.46	0	0	0	0	0	0	0	0	0
2	Less: Rider Collections	266.23	304.9	233.58	0	0	0	0	0	0	0	0	0
3	Net (Over)/ Under Collection	(266.23)	(304.90)	(18,809.04)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Cumulative Net (Over)/ Under Collection	(1,959,208.06)	(1,959,512.96)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)
5	Monthly Carrying Charge Rate	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%
6	Monthly Carrying Charge	(4,897.35)	(4,898.02)	(4,898.78)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)
7	Carrying Charge Balance	(424,604.44)	(429,502.46)	(434,401.25)	(439,347.05)	(444,292.86)	(449,238.66)	(454,184.47)	(459,130.27)	(464,076.08)	(469,021.88)	(473,967.69)	(478,913.49)

		2012											
Line No.		Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual
Ohio Power													
8	IGCC Costs	0	0	-18575.47	37150.93	0	-37150.93	585	-585	0	0	0	0
9	Less: Rider Collections	111.43	139.15	76.05	1.53	26.07	86.23	19.19	42.2	-1244.6	0	0	-1.87
10	Net (Over)/ Under Collection	(111.43)	(139.15)	(18,651.52)	37,149.40	(26.07)	(37,237.16)	565.81	(627.20)	1,244.60	0.00	0.00	1.87
11	Cumulative Net (Over)/ Under Collection	(1,490,110.75)	(1,490,249.90)	(1,508,901.42)	(1,471,752.02)	(1,471,778.09)	(1,509,015.25)	(1,508,449.44)	(1,509,076.64)	(1,507,832.04)	(1,507,832.04)	(1,507,832.04)	(1,507,830.17)
12	Monthly Carrying Charge Rate	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%
13	Monthly Carrying Charge	(3,725.00)	(3,725.28)	(3,725.62)	(3,772.25)	(3,679.38)	(3,679.45)	(3,772.54)	(3,771.12)	(3,772.69)	(3,769.58)	(3,769.58)	(3,769.58)
14	Carrying Charge Balance	(331,808.52)	(335,533.80)	(339,259.43)	(343,031.68)	(346,711.06)	(350,390.50)	(354,163.04)	(357,934.17)	(361,706.86)	(365,476.44)	(369,246.02)	(373,015.60)

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2013											
Line No.		Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual
Columbus Southern Power													
1	IGCC Costs	0	0	0	0	0	0	0	0	0	0	0	0
2	Less: Rider Collections	0	0	0	0	0	0	0	0	0	0	0	0
3	Net (Over)/ Under Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Cumulative Net (Over)/ Under Collection	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)
5	Monthly Carrying Charge Rate	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%
6	Monthly Carrying Charge	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)
7	Carrying Charge Balance	(483,859.30)	(488,805.10)	(493,750.91)	(498,696.71)	(503,642.52)	(508,588.32)	(513,534.13)	(518,479.93)	(523,425.74)	(528,371.54)	(533,317.35)	(538,263.15)

		2013											
Line No.		Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual
Ohio Power													
8	IGCC Costs	-183887.7	0	0	0	0	0	0	0	0	0	0	0
9	Less: Rider Collections	0	0	0	0	0	0	0	0	-54.91	0	0	0
10	Net (Over)/ Under Collection	(183,887.70)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.91	0.00	0.00	0.00
11	Cumulative Net (Over)/ Under Collection	(1,691,717.87)	(1,691,717.87)	(1,691,717.87)	(1,691,717.87)	(1,691,717.87)	(1,691,717.87)	(1,691,717.87)	(1,691,717.87)	(1,691,662.96)	(1,691,662.96)	(1,691,662.96)	(1,691,662.96)
12	Monthly Carrying Charge Rate	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%
13	Monthly Carrying Charge	(3,769.58)	(4,229.29)	(4,229.29)	(4,229.29)	(4,229.29)	(4,229.29)	(4,229.29)	(4,229.29)	(4,229.29)	(4,229.16)	(4,229.16)	(4,229.16)
14	Carrying Charge Balance	(376,785.17)	(381,014.47)	(385,243.76)	(389,473.06)	(393,702.35)	(397,931.65)	(402,160.94)	(406,390.24)	(410,619.53)	(414,848.69)	(419,077.85)	(423,307.00)

Columbus Southern Power Company
Ohio Power Company
IGCC - Phase 1 Refund Calculation
Calculation of Cumulative Carrying Costs

		2014											
Line No.		Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Forecast	Nov Forecast	Dec Forecast
Columbus Southern Power													
1	IGCC Costs	0	0	0	0	0	0	0	0	0	0	0	0
2	Less: Rider Collections	0	0	0	0	0	0	0	0	0	0	0	0
3	Net (Over)/ Under Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Cumulative Net (Over)/ Under Collection	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)	(1,978,322.00)
5	Monthly Carrying Charge Rate	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%
6	Monthly Carrying Charge	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)	(4,945.81)
7	Carrying Charge Balance	(543,208.96)	(548,154.76)	(553,100.57)	(558,046.37)	(562,992.18)	(567,937.98)	(572,883.79)	(577,829.59)	(582,775.40)	(587,721.20)	(592,667.01)	(597,612.81)

		2014											
Line No.		Jan Actual	Feb Actual	Mar Actual	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Forecast	Nov Forecast	Dec Forecast
Ohio Power													
8	IGCC Costs	0	0	0	0	0	0	0	0	0	0	0	0
9	Less: Rider Collections	0	0	-3.75	0	0	0	0	0	-54.91	0	0	0
10	Net (Over)/ Under Collection	0.00	0.00	3.75	0.00	0.00	0.00	0.00	0.00	54.91	0.00	0.00	0.00
11	Cumulative Net (Over)/ Under Collection	(1,691,662.96)	(1,691,662.96)	(1,691,659.21)	(1,691,659.21)	(1,691,659.21)	(1,691,659.21)	(1,691,659.21)	(1,691,659.21)	(1,691,604.30)	(1,691,604.30)	(1,691,604.30)	(1,691,604.30)
12	Monthly Carrying Charge Rate	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%	0.2500%
13	Monthly Carrying Charge	(4,229.16)	(4,229.16)	(4,229.16)	(4,229.15)	(4,229.15)	(4,229.15)	(4,229.15)	(4,229.15)	(4,229.15)	(4,229.01)	(4,229.01)	(4,229.01)
14	Carrying Charge Balance	(427,536.16)	(431,765.32)	(435,994.48)	(440,223.62)	(444,452.77)	(448,681.92)	(452,911.07)	(457,140.22)	(461,369.36)	(465,598.37)	(469,827.38)	(474,056.40)

Exhibit AEM-2
Ohio Power Company
Case No. 05-376-EL-UNC

IGCC Collections By Class			Refund By Class
Schedule	\$	%	\$
RS	\$ 9,753,354.74	40.24%	\$ (1,907,851.84)
GS-1	\$ 469,955.52	1.94%	\$ (91,927.91)
GS-2	\$ 3,394,395.21	14.00%	\$ (663,976.99)
GS-3	\$ 6,618,353.56	27.30%	\$ (1,294,614.86)
GS-4	\$ 3,914,172.47	16.15%	\$ (765,650.52)
EHG	\$ 4,039.89	0.02%	\$ (790.24)
EHS	\$ 357.96	0.00%	\$ (70.02)
SS	\$ 37,685.94	0.16%	\$ (7,371.74)
Lighting	\$ 47,755.15	0.20%	\$ (9,341.38)
	\$ 24,240,070.44	100.00%	\$ (4,741,595.51)

Calculation of Credit Rider			
RS	# Customers	1,274,139	\$ (1.50) /bill
GS-1	kWh	57,253,462	\$ (0.00161) /kWh
GS-2	kWh	450,711,404	\$ (0.00147) /kWh
GS-3	kWh	1,171,542,380	\$ (0.00111) /kWh
GS-4	kWh	753,058,760	\$ (0.00102) /kWh
EHG	kWh	825,446	\$ (0.00096) /kWh
EHS	kWh	20,927	\$ (0.00335) /kWh
SS	kWh	2,530,180	\$ (0.00291) /kWh
Lighting	kWh	17,293,746	\$ (0.00054) /kWh

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in

Case No(s). 05-0376-EL-UNC

Summary: Testimony Direct Testimony of Andrea E. Moore on behalf of Ohio Power Company electronically filed by Ms. Christen M. Blend on behalf of Ohio Power Company