

Columbia Gas of Pennsylvania, Inc.  
2012 General Rate Case  
Docket No. R-2012-2321748  
Standard Data Request  
GASCOS No. 01-21  
Volume 1 of 1

2-13-13  
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Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

PA PUC  
SECRETARY'S BUREAU

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Question No. GAS-COS-001:

Please explain the Company's policy with regard to when customer advances and contributions in aid of construction must be made.

Response:

The Company's policy with regard to when customer advances and contributions in aid of construction must be made is defined within Tariff Pa. P.U.C. No. 9 currently on file with the Pennsylvania Public Utility Commission ("Commission"). More specifically, Section 8.2 Extensions, Main Extension Policy indicates residential, commercial and industrial customers electing service shall pay a refundable cash deposit to the Company equal to the difference between the minimum capital investment required to serve the applicant's gas requirement and the amount of capital that the Company can justify investing in the project, based on the anticipated gas requirements of the applicant(s). The minimum capital investment is the capital expenditure required to serve only the gas requirement requested by the particular applicant(s).

The maximum allowable investment is the amount of capital expenditure which the estimated revenues generated from a proposed project would support and still provide the necessary return to the company, taking into consideration the estimated additional annual volumes, rate schedule, cost of gas, operating and maintenance expense, interest and taxes.

Additionally, Section 8.2.3 Capital Expenditure Policy, Reduction or Elimination of Deposit of the Company's tariff currently on file with the PA PUC provides that in any case where a deposit is required, it may be reduced or eliminated, if in the Company's judgment, the institution of such service will benefit other customers within a reasonable period of time.

Please see Exhibit No. 14, Schedule No. 2, for a complete copy of Columbia's tariff.

Columbia Gas of Pennsylvania, Inc.

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Question No. GAS-COS-002:

Please provide a detailed explanation describing how contributions in aid of construction and customer advances are reflected in the Company's cost of service study.

Response:

Customer Advances for Construction have been classified to one of two different 252 sub-accounts. Account 252-15561 has been used as a classification for Customer Advances since January 2000. Account 252-15560 was used prior to January 2000. Use of account 252-15561 began with the adoption of a revised method of accounting for Customer Advances. A reduction to rate base has been properly included for Customer Advances pertaining to both 252 sub-accounts.

A debit is made to 101-Gas Plant in Service once plant is placed in service regardless of the accounting treatment for Customer Advances. A credit is made to 101-Gas Plant in Service in recognition of Customer Advances since January 2000. Therefore, a reduction to rate base has already been included related to account 252-15561 by including the net 101-Gas Plant in Service per books.

Prior to January 2000, there was no 101-Gas Plant in Service offset for Customer Advances. As such, rate base would not otherwise be reduced for Customer Advances prior to January 2000. The reduction to rate base for these Customer Advances is made by including account 252-15560.

The following table provides a summary of the entries described above.

Columbia Gas of Pennsylvania, Inc.

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Entries for Customer Advances not Refunded <sup>1/</sup>	Prior to January 2000		After January 2000	
	Debit	Credit	Debit	Credit
Record Cost of Construction	101	131	101	131
Record Billing for Customer Advance	143	252	143	101
Customer Advance Received	131	143	131	143
Record Liability for Customer Advance			186	252
<b><i>Both methods show customer advances received at this point and a liability recorded in 252. However, the net entries are different</i></b>	101	252	186	252
Record Customer Advances not Refunded	252	101	252	186
<b><i>Once a Customer Advance is deemed non-refundable it becomes a Contribution in Aid of Construction and there are no remaining entries on the books in recognition of a liability.</i></b>				
<sup>1/</sup> Entries are not shown as running through 107-Construction Work in Progress for simplicity purposes				

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. GAS-COS-003:

Please provide a breakdown of contributions in aid of construction by customer class and plant account number for the most recent year available.

Response:

Please see Exhibit No. 8, Schedule No. 1, for contributions in aid of construction by plant account for the historic test year. Contribution in aid of construction is not recorded on the Company's books by customer class.

Columbia Gas of Pennsylvania, Inc.  
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Cost of Service

Question No. GAS-COS-004:

Please provide a breakdown of transmission and distribution mains investment by pipe diameter.

Response:

The requested breakdown is as follows:

<u>Diameter</u>	<u>Quantity (Feet)</u>	<u>Amount \$</u>
1/2'	320	233
3/4'	9,212	13,343
1'	92,320	262,472
1-1/8'	1,882	5,709
1-1/4'	708,661	2,863,275
1-1/2'	15,620	16,912
2'	12,779,530	97,484,528
2-1/2'	7,068	5,418
2-9/16'	1	1
2-5/8'	967	550,231
3'	3,576,663	31,568,963
3-1/4'	23,517	4,550
3-1/2'	18,316	28,529
4'	11,371,855	178,376,861
4-4/2'	7,418	24,150
4-7/8'	27,624	20,725
5'	58,923	56,862
5-3/16'	30,147	56,931
5-1/4'	612	357
5-1/2'	649	444
5-5/8'	37,559	30,286
6'	5,716,552	128,952,721

Columbia Gas of Pennsylvania, Inc.  
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Cost of Service

6-5/8'	219,598	856,023
7'	390	1,732
7-5/8'	20,936	17,296
8'	2,817,939	90,771,422
8-1/4'	2,263	3,924
8-5/8'	10,924	363,687
9-5/8'	6,678	7,380
10'	904,058	19,775,125
10-3/4'	123	2,155
12'	454,780	14,854,817
14'	537	6,494
16'	342,575	10,600,920
18'	437	5,051
20'	39,296	1,862,057
24'	4,050	146,304
30'	158	4,245
36'	159	1,920
6-1/4'	8,248	6,284
12-5/8	<u>294</u>	<u>1,150</u>
<b>Total Pipe</b>	<b>39,318,859</b>	<b>\$579,611,484</b>

**Other Costs (Valves, Castings, etc.)  
and 106 Unclassified**

**\$120,325,374**

**Account 376 - 107 In Service**

**\$2,398,640**

**Per Exhibit 8, Schedule 1, Page 1,  
Col. Total Gas In Service, Lines 30  
thru 33.**

**\$702,335,498**

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. GAS-COS-005:

Please provide a breakdown of customer advances by customer class for the most recent year available.

Response:

Customer Advances are not recorded on CPA's books by customer class.

Columbia Gas of Pennsylvania, Inc.  
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Question No. GASCOS-06

Please provide a breakdown of services investment by service line diameter, and a breakdown of services by size and customer class.

Response:

The table below summarizes the Company's investment in service lines by size, as of May 31, 2012. The company does not maintain on its books and records, the service line investment by size, by customer class. Please see Columbia Statement No. 9 for an explanation of the assignment of services to the various rate schedules for the Company's Class Cost of Service Studies.

<u>Size</u>	<u>Amount</u>
	\$
Total Under 3"	293,693,404
3"	867,589
3 1/8"	5,672
3 1/2"	2,099
4"	1,337,943
4 1/2"	5,980
5"	618
6"	215,299
6 5/8"	2,650
8"	42,266
8 5/8"	663
10"	112
12"	742
20"	158
<b>Total Acct 380 Services 1/</b>	<b>296,175,195</b>

1/ The amount ties to Gas Plant In Service for Account 380 – Services for the historic test year as shown on Exh. No. 8, Sch. No. 1, Pg. 1 of 2, Col. 'Account 101.1000', Ln. 39.

Columbia Gas of Pennsylvania, Inc.  
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Cost Of Service

Question GASCOS-07:

If available, please provide a breakdown of meter investment by meter size, and a breakdown of meters by size and customer class.

Response:

The table below lists the Company's investments in meters, Account 381, by size as identified on the Company's books and records as of May 31, 2012. The amount ties to the amount included in Exhibit No. 8, Schedule No. 1, Page 2 of 2. The Company's books and records do not identify the assignment of meters to the various customer classes. Please see Columbia Statement No. 9 for an explanation of the assignment of meters to each customer rate class for the Class Cost of Service studies.

<u>Size</u> <u>Cubic Feet Per</u> <u>Hour</u>	<u>Investment</u> \$
0 - 500	20,541,929
501 - 1000	4,210,804
1001 - 1500	1,099,657
Over 1500	<u>5,948,274</u>
Total	31,800,664
Other Costs	<u>33,811</u>
Total Account 381	<u><u>31,834,475</u></u>

Other costs include inactive meters, in stock meters, and timing differences.

Question No. COS-08  
Respondent: P. A. Strauss  
J. E. Skirtich

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-08:

Please provide the Company's rate design models and cost of service study on an IBM PC-compatible computer disk in Lotus 1-2-3 or Quattro format. If the models consist of more than one file, please include information on all files on the disk and what they contain. If not available in Lotus 1-2-3 or Quattro format, please provide in ASCII format.

Response:

Please see the enclosed DVD containing Excel files of the Company's rate design and allocated cost of service studies.

**COLUMBIA GAS OF PENNSYLVANIA, INC.  
 DEVELOPMENT OF ALLOCATION FACTOR 23  
 DIRECT ASSIGNMENT - UNBUNDLED UNCOLLECTIBLES**

<u>LINE</u> <u>NO.</u>	<u>ACCT.</u> <u>NO.</u>	<u>ACCOUNT</u>	<u>TOTAL</u>	<u>RS/RDS</u>	<u>SGS/SGDS</u>
1	480/481	UNBUNDLED UNCOLLECTIBLES REVENUE	1,848,276	1,363,655	484,621
2		<b>ALLOCATOR # 23</b>		73.78%	26.22%

SOURCE: Exhibit 103, Schedule 8, Page 4, Line 5 and Ln. 11 plus 17.

**COLUMBIA GAS OF PENNSYLVANIA, INC.  
 DEVELOPMENT OF ALLOCATION FACTOR 23  
 DIRECT ASSIGNMENT - UNBUNDLED UNCOLLECTIBLES**

<u>LINE</u> <u>NO.</u>	<u>ACCT.</u> <u>NO.</u>	<u>ACCOUNT</u>	<u>TOTAL</u>	<u>RS/RDS</u>	<u>SGS/SGDS</u>
1	480/481	UNBUNDLED UNCOLLECTIBLES REVENUE	1,848,276	1,363,655	484,621
2		<b>ALLOCATOR # 23</b>		73.78%	26.22%

SOURCE: Exhibit 103, Schedule 8, Page 4, Line 5 and Ln. 11 plus 17.

**COLUMBIA GAS OF PENNSYLVANIA, INC.  
ALLOCATION FACTORS (CONT.)  
FOR THE TWELVE MONTHS ENDED JUNE 30, 2014**

**ALLOCATED COST OF SERVICE  
AVERAGE STUDY- ALLOCATORS 5 & 20**

**EXHIBIT 111, SCHEDULE 3  
PAGE 13 OF 13  
WITNESS: J.E. SKIRTICH**

<u>LINE NO.</u>	<u>DESCRIPTION</u> (A)	<u>ALLOC FACTOR</u> (B)	<u>TOTAL COMPANY</u> (C)	<u>RS/RDS</u> (D)	<u>SGS/SGDS</u> (E)	<u>LGS</u> (F)	<u>SDS</u> (G)	<u>LDS</u> (H)	<u>MDS</u> (I)
1	MAINS - ACCOUNT 376	13	911,044,198	656,906,510	167,692,323	4,690,758	26,131,621	55,405,595	217,392
2	PERCENT		100.000%	72.105%	18.407%	0.515%	2.868%	6.082%	0.024%
3	COMPOSITE DIRECT PLANT - ACCTS 376 & 380	14	1,285,044,803	998,888,170	198,791,084	4,963,751	26,550,460	55,596,316	255,022
4	PERCENT		100.000%	77.732%	15.470%	0.386%	2.066%	4.326%	0.020%
5	DIRECT ASSIGNMENT - SERVICES	15	262,823,185	240,345,517	21,856,197	191,151	295,258	135,062	-
6	PERCENT		100.000%	91.448%	8.316%	0.073%	0.112%	0.051%	0.000%
7	DIRECT ASSIGNMENT - METERS	16	24,235,911	18,173,549	5,739,937	66,820	196,940	55,413	3,252
8	PERCENT		100.000%	74.986%	23.684%	0.276%	0.813%	0.229%	0.013%
9	DIRECT ASSIGNMENT - IND M & R	17	6,712,184	-	4,490,787	397,657	1,309,527	514,212	-
10	PERCENT		100.000%	0.000%	66.905%	5.924%	19.510%	7.661%	0.000%
11	OTHER DISTRIBUTION O & M EXPENSES	18	33,374,478	25,206,574	6,100,082	146,686	693,944	1,221,260	5,933
12	PERCENT		100.000%	75.526%	18.278%	0.440%	2.079%	3.659%	0.018%
13	O & M EXCL GAS PUR, UNCOLLECTIBLES, & A & G	19	60,329,525	46,885,317	9,774,070	499,513	929,302	2,167,508	73,816
14	PERCENT		100.000%	77.715%	16.201%	0.828%	1.540%	3.593%	0.122%
15	MINIMUM SYSTEM MAINS	20							
16	PERCENT		100.000%	82.938%	12.701%	0.329%	1.480%	2.552%	0.000%
17	LARGE CUSTOMER RELATIONS	21	157	-	18	41	-	88	10
18	PERCENT		100.00%	0.000%	11.465%	26.115%	0.000%	56.051%	6.369%
19	AVERAGE - ALLOCATORS 5 & 20	22							
20	PERCENT		100.00%	72.122%	18.411%	0.515%	2.869%	6.083%	0.000%
21	UNBUNDLED UNCOLLECTIBLES	23	1,848,276	1,363,655	484,621	-	-	-	-
22	PERCENT		100.000%	73.780%	26.220%	0.000%	0.000%	0.000%	0.000%
23	LABOR	24	24,202,825	18,501,391	4,350,463	118,476	447,627	777,009	7,858
24	PERCENT		100.000%	76.443%	17.975%	0.490%	1.849%	3.210%	0.032%
25	SALES AND CHOICE TRANSPORTATION	25	41,992,196	32,785,788	8,213,924	931,484	-	-	61,000
26	PERCENT		100.000%	78.076%	19.561%	2.218%	0.000%	0.000%	0.145%

Question No. COS-08  
Respondent: P. A. Strauss  
J. E. Skirtich

Columbia Gas of Pennsylvania, Inc.

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Question No. COS-08:

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Response:

Please see the enclosed CD containing Excel files of the Company's rate design and allocated cost of service studies.

Columbia Gas of Pennsylvania, Inc.  
Rate Design Based on Forecast Adjusted Bills and Volumes and Revenue Requirement  
For the 12 Months Ended June 30, 2014

Workpaper - Rate Design  
Exhibit No. 103  
Schedule No. 8  
Page 1 of 5  
Witness: P. A. Strauss

Line No.	Description	Bills (1) (Ex 103, Sch 2)	Volumes (2) Dth (Ex 103, Sch 3)	Rate (3) \$/Dth	Current Revenue (4) \$	Revenue Increase (5) \$	Proposed Revenue (6) \$	Proposed Rates (7) \$	Allocation Factor (8) %	Initial Revenue Allocation	Revenue to be Reallocated %	Total Revenue Increase \$
<b>1 Residential - RSS/RDGS/RQS/RDGS</b>												
<b>2 RESIDENTIAL</b>												
3	Customer Charge	4,378,808		18.73	86,223,761	1,242,948	87,466,709	19.00	40.89%	31,232,354	100.00%	1,525,069
4	Commodity Charge:											
5	First 2.1 Dth		7,435,289.4	0.0000	0	30,303,942	30,303,942	3.8621	0.00%	0	0.00%	0
6	Over 2.1 Dth		<del>22,767,868.8</del>	2.6708	66,607,867	29,710,183	96,318,050	3.8621	31.66%	24,329,370	33.00%	1,170,401
7	Rider USP - Universal Service Plan	116,648,004	30,203,258.3	0.3595	<del>10,858,071</del>	<del>4,246,578</del>	<del>15,104,649</del>	0.5001				
8	Subtotal				163,689,699	65,503,651	229,193,350				Rev. Increment - customer charge	1,242,948
9	STAS				<del>(189,880)</del>	<del>189,880</del>	0				Revenue Increment for usage	57,014,246
10	Base Rate Revenue				163,499,819	65,693,531	229,193,350				Existing usage revenue	66,607,867
11	Gas Cost - Sales		23,112,788.0	4.3212	99,874,980	0	99,874,980	4.3212			Usage Revenue Needed	126,622,113
12	Gas Cost - Choice		7,090,470.3	0.8731	6,190,690	0	6,190,690	0.8731			Usage	32,785,787.8
13	Unbundled Uncollectibles		23,112,788.0	0.0590	1,363,654	0	1,363,654	0.0590			RATE -	3,882,103.79
14	Storage Interest		<del>23,112,788.0</del>	0.0000	0	0	0	0.0000				
15	Total Rate Schedule RSS	4,378,808	30,203,258.3		270,929,143	65,693,531	336,622,674					
<b>16 Residential - RCC (CAP) CHOICE - Shown for Shortfall Calculation Only</b>												
<b>17 RESIDENTIAL</b>												
18	Redistribution of CAP Shortfall resulting from proposed rates					(4,247,091)						
19	Customer Charge	224,703		18.73	4,208,687	60,670	4,269,357	19.00				
20	Commodity Charge:											
21	Over 2.1 Dth		411,203.9	0.0000	0	1,588,111	1,588,111	3.8621				
22	Over 2.1 Dth		<del>2,171,325.6</del>	2.6708	<del>5,799,178</del>	<del>2,586,701</del>	<del>8,385,877</del>	3.8621				
23	Subtotal		2,582,529.5		10,007,863	4,235,482	14,243,345					
24	STAS				<del>(11,609)</del>	<del>11,609</del>	0					
25	Base Rate Revenue				9,996,254	4,247,091	14,243,345					
26	Gas Cost - Choice		2,582,529.5	0.8731	2,254,807	0	2,254,807	0.8731				
27	Storage Interest		<del>2,582,529.5</del>	0.0000	0	0	0	0.0000				
28	Total Rate Schedule RCC	224,703	2,582,529.5		12,251,061	4,247,091	16,498,152					



Columbia Gas of Pennsylvania, Inc.  
 Rate Design Based on Forecast Adjusted Bills and Volumes and Revenue Requirement  
 For the 12 Months Ended June 30, 2014

Workpaper - Rate Design  
 Exhibit No. 103  
 Schedule No. 8  
 Page 3 of 5  
 Witness: P. A. Strauss

Line No.	Description	Bills (1) (Ex 103, Sch 2)	Volumes (2) Dth (Ex 103, Sch 3)	Base Rate (3) \$/Dth	Current Revenue (4) \$	Revenue Increase (5) \$	Proposed Revenue (6) \$	Proposed Rates (7) \$	Allocation Factor (8) %	Initial Revenue Allocation	Revenue to be Reallocated %	Total Revenue Increase
<b>1 Rate Schedule SDS - Small Distribution Service</b>												
2	<b>C &amp; I</b>											
3	Customer Charge:											
4	64,400 to <= 110,000 Therms Annually	2,239		125.12	280,144	55,706	335,850	150.00	0.13%	98,899	0.00%	0
5	> 110,000 to <= 540,000 Therms Annually	2,681		469.34	1,258,301	216,249	1,474,550	550.00	0.60%	461,075	1.00%	35,467
6	Total	4,920										496,542
7	Commodity Charge:											
8	Deliveries		6,824,458.5	1.1416	7,790,802	298,911	8,089,713	1.1854	3.70%	2,832,471	4.00%	141,867
9	Subtotal				9,329,247	570,866	9,900,113					
10	STAS				(10,822)	10,822	0					
11	Flexed Deliveries	108	198,700.0		201,904	0	201,904					
12	Total SDS	5,028	7,023,158.5		9,520,329	581,688	10,102,017					
												271,955
												3,298,824
												7,790,802
												8,089,626
												3,000,000
												6,824,458.5
												1.185387236
<b>13 Rate Schedule LDS - Large Distribution Service</b>												
14	<b>C &amp; I</b>											
15	Customer Charge:											
16	> 540,000 to <= 1,074,000 Therms Annually	439		1,227.00	538,653	0	538,653	1,227.00	0.26%	199,799	(199,799)	0
17	> 1,074,000 to <= 3,400,000 Therms Annually	314		2,190.00	687,660	0	687,660	2,190.00	0.33%	253,591	(253,591)	0
18	> 3,400,000 to <= 7,500,000 Therms Annually	84		4,526.00	380,184	0	380,184	4,526.00	0.18%	138,322	(138,322)	0
19	> 7,500,000 Therms Annually	0		7,322.00	0	0	0	7,322.00	0.00%	0	0	0
20	Subtotal	837										
21	Commodity Charge:											
22	> 540,000 to <= 1,074,000 Therms Annually		2,823,142.0	0.9270	2,431,653	0	2,431,653	0.9270	1.16%	891,411	(891,411)	0
23	> 1,074,000 to <= 3,400,000 Therms Annually		4,116,800.0	0.8114	3,340,372	0	3,340,372	0.8114	1.59%	1,210,837	(1,210,837)	0
24	> 3,400,000 to <= 7,500,000 Therms Annually		3,147,000.0	0.6716	2,113,525	0	2,113,525	0.6716	1.00%	768,458	(768,458)	0
25	> 7,500,000 Therms Annually		0.0	0.6716	0	0	0	0.4061	0.00%	0	0	0
26	Total Commercial Deliveries		9,888,942.0		7,885,550	0	7,885,550					
27	Subtotal				9,492,047	0	9,492,047					
28	STAS				(11,011)	11,011	0					
29	Flexed Deliveries	264	7,801,400.0		3,389,813	0	3,389,813					
30	Total LDS	1,101	17,768,342.0		12,850,649	11,011	12,861,660					

Columbia Gas of Pennsylvania, Inc.  
 Rate Design Based on Forecast Adjusted Bills and Volumes and Revenue Requirement  
 For the 12 Months Ended June 30, 2014

Line No.	Description	Bills (1) (Ex 103, Sch 2)	Volumes (2) Dth (Ex 103, Sch 3)	Base Rate (3) \$/Dth	Current Revenue (4) \$	Revenue Increase (5) \$	Proposed Revenue (6) \$	Proposed Rates (7) \$	Allocation Factor (8) %	Initial Revenue Allocation	Revenue to be Reallocated %	Total Revenue Increase \$
<b>1 Rate Schedule MLS - Main Line Service - Class I (Assisting NSS Customer)</b>												
<b>2 C &amp; I</b>												
3	Customer Charge:											
4	> 274,000 to <= 540,000 Therms Annually	0		469.34	0	0	0	469.34	0.00%	0	0	0
5	> 540,000 to <= 1,074,000 Therms Annually	12		1,149.00	13,788	0	13,788	1,149.00	0.01%	7,662	(7,662)	0
6	> 1,074,000 to <= 3,400,000 Therms Annually	0		2,050.00	0	0	0	2,050.00	0.00%	0	0	0
7	> 3,400,000 to <= 7,500,000 Therms Annually	0		4,096.00	0	0	0	4,096.00	0.00%	0	0	0
8	> 7,500,000 Therms Annually	0		7,322.00	0	0	0	7,322.00	0.00%	0	0	0
9	Subtotal	12										
10	Commodity Charge:											
11	All Gas Consumed		61,000.0	0.0935	5,704	0	5,704	0.0935	0.00%	0	0	0
12	Subtotal				19,492	0	19,492					
13	STAS				(23)	23	0					
14	Gas Cost	0	0		251,625	0	251,625					
15	Total MLS - Class I (NSS)	12	61,000.0		271,094	23	271,117					
<b>16 Rate Schedule MLDS - Main Line Distribution Service - Class I</b>												
<b>17 C &amp; I</b>												
18	Customer Charge:											
19	> 274,000 to <= 540,000 Therms Annually	12		469.34	5,632	0	5,632	469.34	0.00%	0	0	0
20	> 540,000 to <= 1,074,000 Therms Annually	12		1,149.00	13,788	0	13,788	1,149.00	0.01%	7,685	(7,685)	0
21	> 1,074,000 to <= 3,400,000 Therms Annually	12		2,050.00	24,600	0	24,600	2,050.00	0.01%	7,685	(7,685)	0
22	> 3,400,000 to <= 7,500,000 Therms Annually	0		4,096.00	0	0	0	4,096.00	0.00%	0	0	0
23	> 7,500,000 Therms Annually	0		7,322.00	0	0	0	7,322.00	0.00%	0	0	0
24	Subtotal	36										
25	Commodity Charge:											
26	All Gas Consumed		214,400.0	0.0935	20,046	0	20,046	0.0935	0.01%	7,611	(7,611)	0
27	Subtotal				64,066	0	64,066					
28	STAS				(74)	74	0					
29	Flexed	12	2,964,000		364,998	0	364,998					
30	Total MLDS - Class I	48	3,178,400.0		428,990	74	429,064					
<b>31 Rate Schedule MLDS - Main Line Distribution Service - Class II</b>												
<b>32 INDUSTRIAL</b>												
33	Customer Charge:											
34	> 274,000 to <= 540,000 Therms Annually	0		469.34	0	0	0	469.34	0.00%	0	0	0
35	> 540,000 to <= 1,074,000 Therms Annually	0		1,149.00	0	0	0	1,149.00	0.00%	0	0	0
36	> 1,074,000 to <= 3,400,000 Therms Annually	12		2,050.00	24,600	0	24,600	2,050.00	0.01%	7,685	(7,685)	0
37	> 3,400,000 to <= 7,500,000 Therms Annually	0		4,096.00	0	0	0	4,096.00	0.00%	0	0	0
38	> 7,500,000 Therms Annually	0		7,322.00	0	0	0	7,322.00	0.00%	0	0	0
39	Subtotal	12										
40	Commodity Charge:											
41	<= 1,074,000 Therms Annually		0.0	0.5264	0	0	0	0.5264	0.00%	0	0	0
42	> 1,074,000 to <= 3,400,000 Therms Annually		296,000.0	0.4471	132,342	0	132,342	0.4471	0.06%	45,925	(45,925)	0
43	> 3,400,000 to <= 7,500,000 Therms Annually		0.0	0.3866	0	0	0	0.3866	0.00%	0	0	0
44	> 7,500,000 Therms Annually		0.0	0.3349	0	0	0	0.3349	0.00%	0	0	0
45	Subtotal		296,000.0		156,942	0	156,942					
46	STAS				(182)	182	0					
47	Flex	48	1,684,000		644,200	0	644,200			Revenue to be re-allocated	(3,546,671)	3,546,672
48	Total Industrial MLDS - Class II	60	1,980,000.0		800,960	182	801,142					

Columbia Gas of Pennsylvania, Inc.  
 Rate Design Based on Forecast Adjusted Bills and Volumes and Revenue Requirement  
 For the 12 Months Ended June 30, 2014

Line No.	Description	Bills (1)	Volumes (2) Dth	Current Base Revenue (3) \$	Total Rev Increase (4) \$	GPC (5) \$	Incremental Revenue (6 = 4 + 5) \$	
1	Total Company above	5,050,351	77,091,623	214,993,131			76,846,306	100.00%
2	Less Flex	541	12,773,900	4,613,061				
3	Total Company Less Flex	5,049,810	64,317,723	210,380,070	77,311,053	465,287	76,845,766	
4	Check to Schedule 1	5,050,351	77,091,623	214,993,131				
5	Less Flex	541	12,773,900	4,613,061				
6	Total Company Less Flex	5,049,810	64,317,723	210,380,070				
	check s/b 0	0	0	0				
	Total Company Less Flex	5,049,810	64,317,723	210,380,070				
	Less MLS/MLDS	60	571,400.0	240,221				
	Total Company Less Flex, Less MLS/MLDS	5,049,750	63,746,323	210,139,849				
	Total Company Less Flex, Less MLS/MLDS	5,049,750	63,746,323	210,139,849				
	Less LDS	837	9,886,842.0	9,492,047				
	Total Company Less Flex, Less MLS/MLDS/LDS	5,048,913	53,859,381	200,647,802				

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-09:

Please provide a copy of the Company's current customer extension policy. Provide a representative sample of the analyses conducted by the Company when deciding whether service to a new customer qualifies under the Company's customer extension policy.

Response:

The Company's tariff specifies on page 54:

**8. Extensions**

**8.1 Service Connections**

The Company will install the service line from its main to point of delivery, as defined in the Point of Delivery section of this tariff; provided, however;

- (a) In the territories formerly served under Tariff Gas--Pa. P.U.C. No. 6 and Tariff Gas--Pa. P.U.C. No. 7, the Company will install the service line from its main to a convenient point approximately fifty (50) feet inside the customer's property line. (See the description of Territory section of this tariff to identify territory formerly served under Tariff Gas--Pa. P.U.C. No. 6 and Tariff Gas--Pa. P.U.C. No. 7.)
- (b) In rural areas, where service is not available directly from the Company, service may be provided from a transmission or production line. It is the sole discretion of the owner of the transmission or production line to allow service from their facilities to the customer. If connection is allowed, the Company's service connection will consist of a tap on the line and a service valve.

**8.2 Capital Expenditure Policy**

**8.2.1 Residential Distribution Service**

The applicants will be required to provide a refundable cash deposit to the Company equal to the difference between the minimum capital investment required to serve the applicant's gas requirements and the amount of capital that the Company can justify investing in the project, based on the anticipated gas requirements of the applicant(s).

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Minimum capital investment is the capital expenditure required to serve only the gas requirements requested by the particular applicant(s).

The maximum allowable investment is the amount of capital expenditure which the estimated revenues generated from a proposed project would support and still provide the necessary return to the company, taking into consideration the estimated additional annual quantities, rate schedule, cost of gas, operating and maintenance expense, interest and taxes.

**8.2.2 Commercial and Industrial Distribution Service**

The applicants will be required to provide a refundable cash deposit to the Company equal to the difference between the minimum capital investment required to serve the applicant's gas requirements and the amount of capital that the Company can justify investing in the project, based on the anticipated gas requirements of the applicant(s). Minimum capital investment is the capital expenditure required to serve only the gas requirements requested by the particular applicant(s).

- (a) Projects Where the Net Present Value of the Cash Flows, Using the Minimum Capital Investment, is Equal to or Greater than Zero.

Such projects are economically feasible provided that there are assurances that the applicant will use the projected quantities of gas for the minimum time period stated in the agreement. Such assurances may be provided in the form of a minimum use agreement, in which applicant contractually agrees to take delivery of certain minimum quantities of gas, and to pay the applicable distribution charges for such quantities, irrespective of applicant's actual consumption of gas. At the Company's sole discretion, a deposit may be required if the Company is not certain that the applicant will use the quantity of gas, as projected, for the entire Minimum Time Period. The maximum required deposit shall be no more than the minimum capital investment.

- (b) Projects Where the Net Present Value of the Cash Flows, Using the Minimum Capital Investment, is Less than Zero.

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

The Company shall require a refundable deposit in the amount that the net present value is below zero. For example, if the net present value of a project is -\$1,000, the Company shall require a \$1,000 refundable deposit. In addition, if there is uncertainty that the applicant will use the projected quantity of gas for the minimum time period stated in the agreement, the Company may, in its sole discretion, (1) require the Applicant to pay an additional refundable deposit, or (2) require the applicant to enter into a minimum use agreement, in which applicant contractually agrees to take delivery of certain minimum quantities of gas, and to pay the applicable distribution charges for such quantity, irrespective of applicant's actual consumption of gas. The additional refundable deposit, if required, shall be no more than the combined total of the Company's minimum capital investment and the net present value. For example, if the Company's minimum capital investment is \$10,000 and the net present value of the project is -\$1,000, the applicant shall be required to provide an additional \$9,000 deposit.

For purposes of subsection (a) and (b), above, the maximum allowable investment is the amount of capital expenditure which the estimated revenues generated from a proposed project would support and still provide the necessary return to the Company, taking into consideration the estimated additional annual quantity, rate schedule, cost of gas, operating and maintenance expense, interest and taxes.

**8.2.3 Reduction or Elimination of Deposit**

In any case where a deposit is required, it may be reduced or eliminated, if in the Company's judgment, the institution of such service will benefit other customers within a reasonable period of time.

**8.2.4 Taxes on Deposits for Construction & Customer Advances**

Any deposit, advance or other like amounts received from the applicant which shall constitute taxable income as defined by the Internal Revenue Service will have the income taxes segregated in a deferred account for inclusion in rate base in a future rate case proceeding. Such income taxes associated with a deposit or advance will not be charged to the specific depositor of the capital.

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Please see Attachment A for sample analysis conducted by CPA.

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COLUMBIA GAS DISTRIBUTION COMPANIES  
NEW LOAD REPORTING SYSTEM PROJECT INFORMATION  
PROJECT DETAIL

PAGE 1

New Load Project Id Number .. WMS0990714  
Project Name ..... CEDAR TREE PLACE  
Project Type ..... COMMERCIAL  
Priority ..... NORMAL  
Prepared by ..... MELINDA BATEMAN (MBATEMA)  
Master Project Id .....  
Company ..... COLUMBIA GAS OF PENNSYLVANIA  
District ..... UNIONTOWN DISTRICT  
Location ..... 2321: UNIONTOWN AREA  
City ..... LEMONT FURNACE

Required Approval ..... REP: \*\* UNDER \$25,000  
Approval Status ..... REP: \*\* UNDER \$25,000  
Project Status ..... PE : Pending: Approved, awaiting installation.

PROJECT SUMMARY DATA

Number of New Load Data Sheets .... 6  
Date Response to Customer Req'd .... 03/25/09

Buildout Years ..... 1  
Future ..... 0

	MINIMUM	RECOMMENDED	*** CASH FLOW ANALYSIS RESULTS ***	MINIMUM	RECOMMENDED
Total Added Connect Ld (MCF/Hr) ...	1.20	1.20	Net Present Value (NPV) Cash Flow \$	8,616	8,616
Total Added Max Hour (MCF/Hr) ....	1.20	1.20	Required Deposit .....	0	0
Total Added Max Day (MCF) .....	4	4	..Actual Deposit .....	0	0
Load Increase (MCF) .....	1,115	1,115	Internal Rate of Return .....	92.87%	92.87%
Plant Investment (Facility Cost) .....	2,415	2,415	Discounted Payback Period .....	1 YR 1 MO	1 YR 1 MO
Mainline Extension Costs .....	0	0	CVA NPV .....	9,560	9,560
			Year CVA Positive .....	1	1

COMMENTS

SIGNATURES TO DATE

Userid	Name	Title	Stp	Date Signed	Signature Type
MBATEMA	MELINDA BATEMAN	NBT REPRESENTATIVE	D01	03/05/09	RELEASE
MZAVATC	MIKE ZAVATCEN	ENGR TECH	D02	03/06/09	RELEASE
MBATEMA	*MELINDA BATEMAN	NBT REPRESENTATIVE	D04	03/06/09	RELEASE

SIGNED BY ALTERNATE: NBOYER

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990714 PAGE 2  
COMMERCIAL NLD8 CS091670

\*\* CUSTOMER DATA \*\*

Customer Name UNIT 20		County FAYETTE			Date of Request 03/05/2009	
Service Address 1321 CONNELLSVILLE		Town or Township LEMONT FURNACE	State PA	Zip 15456	Date Resp to Cust Reqd 03/25/2009	
Contact Name; Address; Telephone ELIAS NICKMAN; 5 NICKMAN PL, LEMONT FURNACE, PA 15456; 724-880-0183					SIC Code 5999	Serv Line Commit Date 05/01/2009
Addition Type N: New Construction		Building Type F: RETAIL	Rate Number SGS	Square Footage 6800	New Set Commit Date	
Market Rep. ID MBATEMA	Customer Flow Date 2009-05-01	Market Segment Type N2 - Commercial Retail (Non-Process)			PSID 501053086	
Comment:						

\*\* LOAD DATA \*\*

Volume Description	Connected Load MCF/Hr		Operating Usage - MCF								
			Max Hr		Normal Hr		Max Day		Max Month		Min Month
Existing Load	0.00		0.00		0.00		0		0		0
Added (New) Load	0.10		0.10		0.00		0		7		0
Total Immediate Load	0.10		0.10		0.00		0		7		0
Additional Future Load	0.00		0.00		0.00		0		0		0
Total Potential Load	0.10		0.10		0.00		0		7		0
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Annual Load Additions	40	0	0	0	0	0	0	0	0	0	
Month of Max Day for New Load:			JAN		Year for Additional Future Load : 0						
Minimum Month for New Load :			AUG		Minimum Delivery Pressure Required: 7"WC						

\*\* NEW LOAD DESCRIPTION \*\*

Description	# of Units	Connect MCF/Hr	MCF/Yr
1. Heating	1	0.10	40

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990714 PAGE 3  
COMMERCIAL NLDS C\$091670

\*\* GAS SUPPLY INFORMATION \*\*

Quality of Service	Existing Requirements	Added Requirements	Future Added (3rd Yr)	Current Forecast (3rd Yr)
Daily MCF				
Firm Sales	0	0	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Daily MCF	0	0	0	0
Annual MCF				
Firm Sales	0	40	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Annual MCF	0	40	0	0

A request for contract change must be submitted to the Gas Transportation Department for any new load served by a GTS contract.

\*\* SOURCE OF SUPPLY \*\*

\*\* DISTRIBUTION INFORMATION

Existing Measurement Station No.	DIS System No. 37034030-	TBS No.
Existing CAB Customer? NO	Map No. 7612416A	TBS Name
Maximum Main Pressure (MAOP) 35#	Pressure Range, Normal 30#	Pressure Range, Minimum 8#

\*\* TRANSMISSION INFORMATION

Transmission Company	Transmission Line No.
New Transmission Tap Required ? NO	

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS099D714 PAGE 4  
COMMERCIAL NLDS C\$091670

** FACILITIES COST **			** MINIMUM ** 1 year buildout						** RECOMMENDED ** 1 year buildout						
Yr	Num Srvcs	Num Meters	Cost per-->						Cost per-->						
			Extension	Bettermnt	Relocatn	CmpSrvLn	M/R Set	CustM/R	Extension	Bettermnt	Relocatn	CmpSrvLn	M/R Set	CustM/R	
Yr 1	1	1	0	0	0	1200	40	64	0	0	0	1200	40	64	
Yr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Total MINIMUM Investment:						Total RECOMMENDED Investment:						
			\$ 1,304						\$ 1,304						
Dig and Backfill(CIAC) \$:			0												
Job Order Number(s) :															
Addl Plant Maintenance \$:			Yr1:0	Yr2:0	Yr3:0	Yr4:0	Yr5:0	Yr6:0	Yr7:0	Yr8:0	Yr9:0	Yr10:0			

**\*\* INVESTMENT DESCRIPTION \*\***

Proposed Facilities: (Description)  
Plant & Service Department  
Pipe name:6sx6h10M

Line Extension NA,  
Based on an 1 1/4" plastic si

WMS Job Order: NA  
\*\*\*\* (MORE) - SEE ATTACHMENT PAGES FOR FULL DESCRIPTION \*\*\*\*

** CASH FLOW INPUTS **				** Volume Spreads **							
Rate Number	Rate Type	Monthly Customer Charge(\$)	SGS Tariff	Promotional Expenses(\$)		Annual	Step 1	Step 2	Step 3	Step 4	Step 5
		16.98		Upfront	0						
Rate Factors, Step 1	11.7003		Amounts	Year 1	0	40	40	0	0	0	0
2	11.7003		9999999	Year 2	0	0	0	0	0	0	0
3	0.0000		0	Year 3	0	0	0	0	0	0	0
4	0.0000		0	Year 4	0	0	0	0	0	0	0
5	0.0000		0	Year 5	0	0	0	0	0	0	0
				Year 6	0	0	0	0	0	0	0
				Year 7	0	0	0	0	0	0	0
				Year 8	0	0	0	0	0	0	0
				Year 9	0	0	0	0	0	0	0
				Year 10	0	0	0	0	0	0	0
Gas Cost	9.6816			Total \$	0						
Existing Customer?	N (Y/N)										
Term for Cash Flow Analysis	7 Years										

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ATTACHMENT(S) FOR NEW LOAD DATA SHEET

New Load Project: WMS0990714 Page 5

\*\* INVESTMENT DESCRIPTION FOR NLDS G091670 \*\*

Proposed Facilities: (Description)  
Plant & Service Department  
Pipe name: 6s x 6h 10M

Line Extension NA  
Based on an 1 1/4" plastic sl

WMS Job Order: NA

Domestic \_\_\_ Meter Size  
Domestic \_\_\_ Meter Type  
Domestic \_\_\_ House Regulator Size  
Domestic \_\_\_ House Regulator Type

Customer Service Line \_\_\_ feet of \_\_\_ inch \_\_\_ pipe.  
Company Service Line \_\_\_ feet of \_\_\_ inch \_\_\_ pipe.

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990714 PAGE 6  
COMMERCIAL NLDS CS091672

\*\* CUSTOMER DATA \*\*

Customer Name UNIT 22		County FAYETTE			Date of Request 03/05/2009
Service Address 1321 CONNELLSVILLE		Town or Township LEMONT FURNACE	State PA	Zip 15456	Date Resp to Cust Reqd 03/25/2009
Contact Name; Address; Telephone ELIAS NICKMAN; 5 NICKMAN PL, LEMONT FURNACE, PA 15456; 724-880-0183				SIC Code 5999	Serv Line Commit Date 05/01/2009
Addition Type N: New Construction		Building Type F: RETAIL	Rate Number SGS	Square Footage 6800	New Set Commit Date
Market Rep. ID MBATEMA	Customer Flow Date 2009-05-01	Market Segment Type N2 - Commercial Retail (Non-Process)			PSID 501053087
Comment:					

\*\* LOAD DATA \*\*

Volume Description	Connected Load MCF/Hr		Operating Usage - MCF									
			Max Hr		Normal Hr		Max Day		Max Month		Min Month	
Existing Load	0.00		0.00		0.00		0		0		0	
Added (New) Load	0.10		0.10		0.00		0		7		0	
Total Immediate Load	0.10		0.10		0.00		0		7		0	
Additional Future Load	0.00		0.00		0.00		0		0		0	
Total Potential Load	0.10		0.10		0.00		0		7		0	
Annual Load Additions	Year 1 40	Year 2 0	Year 3 0	Year 4 0	Year 5 0	Year 6 0	Year 7 0	Year 8 0	Year 9 0	Year 10 0		
Month of Max Day for New Load:		JAN		Year for Additional Future Load : 0								
Minimum Month for New Load :		AUG		Minimum Delivery Pressure Required: 7"WC								

\*\* NEW LOAD DESCRIPTION \*\*

Description	# of Units	Connect MCF/Hr	MCF/Yr
1. Heating	1	0.10	40

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990714 PAGE 7  
COMMERCIAL NLD5 CS091672

\*\* GAS SUPPLY INFORMATION \*\*

Quality of Service	Existing Requirements	Added Requirements	Future Added (3rd Yr)	Current Forecast (3rd Yr)
Daily MCF				
Firm Sales	0	0	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Daily MCF	0	0	0	0
Annual MCF				
Firm Sales	0	40	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Annual MCF	0	40	0	0

A request for contract change must be submitted to the Gas Transportation Department for any new load served by a GTS contract.

\*\* SOURCE OF SUPPLY \*\*

\*\* DISTRIBUTION INFORMATION

Existing Measurement Station No.	DIS System No. 37034030-	TBS No.
Existing CAB Customer? NO	Map No. 7612416A	TBS Name
Maximum Main Pressure (MAOP) 35#	Pressure Range, Normal 30#	Pressure Range, Minimum 8#

\*\* TRANSMISSION INFORMATION

Transmission Company	Transmission Line No.
New Transmission Tap Required ? NO	

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990714 PAGE 8  
COMMERCIAL NLDS C\$091672

** FACILITIES COST **			** MINIMUM ** 1 year buildout						** RECOMMENDED ** 1 year buildout					
	Num Srvcs	Num Meters	Extension	Bettermnt	Cost per-> Relocatn	0 CmpSrvLn	40 M/R Set	64 CustM/R	Extension	Bettermnt	Cost per-> Relocatn	0 CmpSrvLn	40 M/R Set	64 CustM/R
Yr 1	0	1	0	0	0	0	40	64	0	0	0	0	40	64
Yr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Total MINIMUM Investment:						Total RECOMMENDED Investment:					
			\$ 104						\$ 104					

Dig and Backfill(CIAC) \$: 0  
 Job Order Number(s) :  
 Addl Plant Maintenance \$: Yr1:0 Yr2:0 Yr3:0 Yr4:0 Yr5:0 Yr6:0 Yr7:0 Yr8:0 Yr9:0 Yr10:0

\*\* INVESTMENT DESCRIPTION \*\*

Proposed Facilities: (Description)  
 Plant & Service Department  
 Pipe name: 6x5H10M  
 Line Extension: NA

WMS Job Order: NA  
 \*\*\*\* (MORE) - SEE ATTACHMENT PAGES FOR FULL DESCRIPTION \*\*\*\*

\*\* CASH FLOW INPUTS \*\*

Rate Number . . . . .	SGS	Rate Type . . . . .	Tariff	Monthly Customer Charge(\$)	Promotional Expenses(\$)	** Volume Spreads **									
						Annual	Step 1	Step 2	Step 3	Step 4	Step 5				
Rate Factors, Step 1 . . . . .	11.7003	Amounts		50	Upfront	0									
2 . . . . .	11.7003			9999999	Year 1	0	40	40	0	0	0	0	0	0	0
3 . . . . .	0.0000			0	Year 2	0	0	0	0	0	0	0	0	0	0
4 . . . . .	0.0000			0	Year 3	0	0	0	0	0	0	0	0	0	0
5 . . . . .	0.0000			0	Year 4	0	0	0	0	0	0	0	0	0	0
					Year 5	0	0	0	0	0	0	0	0	0	0
					Year 6	0	0	0	0	0	0	0	0	0	0
					Year 7	0	0	0	0	0	0	0	0	0	0
					Year 8	0	0	0	0	0	0	0	0	0	0
					Year 9	0	0	0	0	0	0	0	0	0	0
					Year 10	0	0	0	0	0	0	0	0	0	0
Gas Cost . . . . .	9.6816				Total \$	0									
Existing Customer? . . . . .	N (Y/N)														
Term for Cash Flow Analysis . . . . .	7 Years														

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ATTACHMENT(S) FOR NEW LOAD DATA SHEET

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\*\* INVESTMENT DESCRIPTION FOR NLD5 C5091672 \*\*

Proposed Facilities: (Description)  
Plant & Service Department  
Pipe name: 6sx6h10M

Line Extension: NA

WMS Job Order: NA

Domestic \_\_\_ Meter Size  
Domestic \_\_\_ Meter Type  
Domestic \_\_\_ House Regulator Size  
Domestic \_\_\_ House Regulator Type

Customer Service Line \_\_\_ feet of \_\_\_ inch \_\_\_ pipe.  
Company Service Line \_\_\_ feet of \_\_\_ inch \_\_\_ pipe.

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NEW LOAD DATA SHEET DETAILS

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COMMERCIAL NLDS C\$091673

\*\* CUSTOMER DATA \*\*

Customer Name UNIT 24		County FAYETTE			Date of Request 03/05/2009	
Service Address 1321 CONNELLSVILLE		Town or Township LEMONT FURNACE	State PA	Zip 15456	Date Resp to Cust Reqd 03/25/2009	
Contact Name; Address; Telephone ELIAS NICKMAN; 5 NICKMAN PL, LEMONT FURNACE, PA 15456; 724-860-0183					SIC Code 5999	Serv Line Commit Date 05/01/2009
Addition Type N: New Construction		Building Type F: RETAIL	Rate Number SGS	Square Footage 6800	New Set Commit Date	
Market Rep. ID MBATEMA	Customer Flow Date 2009-05-01	Market Segment Type N2 - Commercial Retail (Non-Process)				PSID 501053088
Comment:						

\*\* LOAD DATA \*\*

Volume Description	Connected Load MCF/Hr		Operating Usage - MCF								
			Max Hr		Normal Hr		Max Day		Max Month		Min Month
Existing Load	0.00		0.00		0.00		0		0		0
Added (New) Load	0.10		0.10		0.00		0		7		0
Total Immediate Load	0.10		0.10		0.00		0		7		0
Additional Future Load	0.00		0.00		0.00		0		0		0
Total Potential Load	0.10		0.10		0.00		0		7		0
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Annual Load Additions	40	0	0	0	0	0	0	0	0	0	
Month of Max Day for New Load:			JAN		Year for Additional Future Load : 0						
Minimum Month for New Load :			AUG		Minimum Delivery Pressure Required: 7"WC						

\*\* NEW LOAD DESCRIPTION \*\*

Description	# of Units	Connect MCF/Hr	MCF/Yr
1. Heating	1	0.10	40

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NEW LOAD DATA SHEET DETAILS

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**\*\* GAS SUPPLY INFORMATION \*\***

Quality of Service	Existing Requirements	Added Requirements	Future Added (3rd Yr)	Current Forecast (3rd Yr)
Daily MCF				
Firm Sales	0	0	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Daily MCF	0	0	0	0
Annual MCF				
Firm Sales	0	40	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Annual MCF	0	40	0	0

A request for contract change must be submitted to the Gas Transportation Department for any new load served by a GTS contract.

**\*\* SOURCE OF SUPPLY \*\***

**\*\* DISTRIBUTION INFORMATION**

Existing Measurement Station No.	DIS System No. 37034030-	TBS No.
Existing CAB Customer? NO	Map No. 7612416A	TBS Name
Maximum Main Pressure (MAOP) 35#	Pressure Range, Normal 30#	Pressure Range, Minimum 8#

**\*\* TRANSMISSION INFORMATION**

Transmission Company	Transmission Line No.
New Transmission Tap Required ? NO	

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NEW LOAD DATA SHEET DETAILS

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** FACILITIES COST **			** MINIMUM ** 1 year buildout						** RECOMMENDED ** 1 year buildout					
Yr	Num Srvcs	Num Meters	Cost per ->			Cost per ->			Cost per ->			Cost per ->		
			Extension	Bettermnt	Relocatn	CmpSrvLn	M/R Set	CustM/R	Extension	Bettermnt	Relocatn	CmpSrvLn	M/R Set	CustM/R
Yr 1	0	1	0	0	0	0	40	64	0	0	0	0	40	64
Yr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Total MINIMUM Investment:			\$ 104			Total RECOMMENDED Investment:			\$ 104		

Dig and Backfill(CIAC) \$: 0  
 Job Order Number(s) :  
 Addl Plant Maintenance \$: Yr1:0 Yr2:0 Yr3:0 Yr4:0 Yr5:0 Yr6:0 Yr7:0 Yr8:0 Yr9:0 Yr10:0

\*\* INVESTMENT DESCRIPTION \*\*

Proposed Facilities: (Description)  
 Plant & Service Department  
 Pipe name: 6x6h10M  
 Line Extension: NA

WMS Job Order: NA  
 \*\*\*\* (MDRE) - SEE ATTACHMENT PAGES FOR FULL DESCRIPTION \*\*\*\*

\*\* CASH FLOW INPUTS \*\*

Rate Number	Rate Type	Monthly Customer Charge(\$)	SGS Tariff	Promotional Expenses(\$)	** Volume Spreads **						
					Annual	Step 1	Step 2	Step 3	Step 4	Step 5	
Rate Factors, Step 1		11.7003	Amounts	50	40	40	0	0	0	0	0
2.		11.7003		9999999	0	0	0	0	0	0	0
3.		0.0000		0	0	0	0	0	0	0	0
4.		0.0000		0	0	0	0	0	0	0	0
5.		0.0000		0	0	0	0	0	0	0	0
Gas Cost.		9.6816			0	0	0	0	0	0	0
Existing Customer?			N (Y/N)		0	0	0	0	0	0	0
Term for Cash Flow Analysis.			7 Years		0	0	0	0	0	0	0
				Total \$	0	0	0	0	0	0	0

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\*\* INVESTMENT DESCRIPTION FOR NLDS C\$091673 \*\*

Proposed Facilities: (Description)  
Plant & Service Department  
Pipe name: 6sx6h10M

Line Extension: NA

WMS Job Order: NA

Domestic  Meter Size  
Domestic  Meter Type  
Domestic  House Regulator Size  
Domestic  House Regulator Type

Customer Service Line  feet of  Inch  pipe.  
Company Service Line  feet of  Inch  pipe.

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990714 PAGE 14  
COMMERCIAL NLDS C\$091674

**\*\* CUSTOMER DATA \*\***

Customer Name UNIT 26 RESTAURANT		County FAYETTE		Date of Request 03/05/2009	
Service Address 1321 CORNELLSVILLE		Town or Township LEMONT FURNACE	State PA	Zip 15456	Date Resp to Cust Reqd 03/25/2009
Contact Name; Address; Telephone ELIAS NICKMAN; 5 NICKMAN PL, LEMONT FURNACE, PA 15456; 724-880-0183				SIC Code 5812	Serv Line Commit Date 05/01/2009
Addition Type N: New Construction		Building Type F: RETAIL	Rate Number SGS	Square Footage 6800	New Set Commit Date
Market Rep. ID KBATEMA	Customer Flow Date 2009-05-01	Market Segment Type R2 - Commercial Retail (Non-Process)			PSID 501053089
Comment:					

**\*\* LOAD DATA \*\***

Volume Description	Connected Load MCF/Hr		Operating Usage - MCF								
			Max Hr		Normal Hr		Max Day		Max Month		Min Month
Existing Load	0.00		0.00		0.00		0		0		0
Added (New) Load	0.70		0.70		0.00		4		79		72
Total Immediate Load	0.70		0.70		0.00		4		79		72
Additional Future Load	0.00		0.00		0.00		0		0		0
Total Potential Load	0.70		0.70		0.00		4		79		72
Annual Load Additions	Year 1 915	Year 2 0	Year 3 0	Year 4 0	Year 5 0	Year 6 0	Year 7 0	Year 8 0	Year 9 0	Year 10 0	
Month of Max Day for New Load: JAN		Year for Additional Future Load : 0									
Minimum Month for New Load : AUG		Minimum Delivery Pressure Required: 7"WC									

**\*\* NEW LOAD DESCRIPTION \*\***

Description	# of Units	Connect MCF/Hr	MCF/Yr
1. Heating	1	0.10	40
2. Water Heating	1	0.20	175
3. Cooking	5	0.70	700

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NEW LOAD DATA SHEET DETAILS

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\*\* GAS SUPPLY INFORMATION \*\*

Quality of Service	Existing Requirements	Added Requirements	Future Added (3rd Yr)	Current Forecast (3rd Yr)
Daily MCF				
Firm Sales	0	4	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Daily MCF	0	4	0	0
Annual MCF				
Firm Sales	0	915	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Annual MCF	0	915	0	0

A request for contract change must be submitted to the Gas Transportation Department for any new load served by a GTS contract.

\*\* SOURCE OF SUPPLY \*\*

\*\* DISTRIBUTION INFORMATION

Existing Measurement Station No.	DIS System No. 37034030-	TBS No.
Existing GAB Customer? NO	Map No. 7612416A	TBS Name
Maximum Main Pressure (MAOP) 35#	Pressure Range, Normal 30#	Pressure Range, Minimum 8#

\*\* TRANSMISSION INFORMATION

Transmission Company	Transmission Line No.
New Transmission Tap Required ? NO	

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NEW LOAD DATA SHEET DETAILS

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COMMERCIAL MLDS C\$091674

** FACILITIES COST **			** MINIMUM ** 1 year buildout						** RECOMMENDED ** 1 year buildout					
	Num Srvcs	Num Meters	Extension	Bettermnt	Cost per-> Relocatr	0 CmpSrvLn	150 M/R Set	545 CustM/R	Extension	Bettermnt	Cost per-> Relocatr	0 CmpSrvLn	150 M/R Set	545 CustM/R
Yr 1	0	1	0	0	0	0	150	545	0	0	0	0	150	545
Yr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Total MINIMUM Investment: \$ 695						Total RECOMMENDED Investment: \$ 695					

Dig and Backfill(CIAC) \$: 0  
 Job Order Number(s) :  
 Addl Plant Maintenance \$: Yr1:0 Yr2:0 Yr3:0 Yr4:0 Yr5:0 Yr6:0 Yr7:0 Yr8:0 Yr9:0 Yr10:0

\*\* INVESTMENT DESCRIPTION \*\*

Proposed Facilities: (Description)  
 Plant & Service Department  
 Pipe name: 6sx6h10M  
 Line Extension: NA  
 WMS Job Order: NA  
 \*\*\*\* (MORE) - SEE ATTACHMENT PAGES FOR FULL DESCRIPTION \*\*\*\*

\*\* CASH FLOW INPUTS \*\*

Rate Number . . . . .	SGS	Rate Type . . . . .	Tariff	Monthly Customer Charge(\$)	16.98	Promotional Expenses(\$)	** Volume Spreads **				
							Annual	Step 1	Step 2	Step 3	Step 4
Rate Factors, Step 1 . . . . .	11.7003	Amounts	50	9999999	0	915	600	315	0	0	0
2 . . . . .	11.7003				0	0	0	0	0	0	0
3 . . . . .	0.0000				0	0	0	0	0	0	0
4 . . . . .	0.0000				0	0	0	0	0	0	0
5 . . . . .	0.0000				0	0	0	0	0	0	0
Gas Cost . . . . .	9.6816				0	0	0	0	0	0	0
Existing Customer? . . . . .	N (Y/N)				0	0	0	0	0	0	0
Term for Cash Flow Analysis . . . . .	7 Years				0	0	0	0	0	0	0
Total \$						0	0	0	0	0	0

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\*\* INVESTMENT DESCRIPTION FOR NLDS CS091674 \*\*

Proposed Facilities: (Description)  
Plant & Service Department  
Pipe name: 6sx6h10M

Line Extension: NA

WMS Job Order: NA

1 1/2" \_\_\_\_\_ Meter Size  
AL-600 \_\_\_\_\_ Meter Type  
Domestic \_\_\_\_\_ House Regulator Size  
Domestic \_\_\_\_\_ House Regulator Type

Customer Service Line \_\_\_\_\_ feet of \_\_\_\_\_ inch \_\_\_\_\_ pipe.  
Company Service Line \_\_\_\_\_ feet of \_\_\_\_\_ inch \_\_\_\_\_ pipe.

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NEW LOAD DATA SHEET DETAILS

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COMMERCIAL NLDS C\$091675

\*\* CUSTOMER DATA \*\*

Customer Name UNIT 28		County FAYETTE			Date of Request 03/05/2009	
Service Address 1321 CONNELLSVILLE		Town or Township LEMONT FURNACE	State PA	Zip 15456	Date Resp to Cust Reqd 03/25/2009	
Contact Name; Address; Telephone ELIAS NICKMAN; 5 NICKMAN PL, LEMONT FURNACE, PA 15456; 724-880-0183				SIC Code 5999	Serv Line Commit Date 05/01/2009	
Addition Type N: New Construction		Building Type F: RETAIL	Rate Number SGS	Square Footage 6800	New Set Commit Date	
Market Rep. ID MBATEMA	Customer Flow Date 2009-05-01	Market Segment Type N2 - Commercial Retail (Non-Process)			PSID 501053090	
Comment:						

\*\* LOAD DATA \*\*

Volume Description	Connected Load MCF/Hr		Operating Usage - MCF									
			Max Hr		Normal Hr		Max Day		Max Month		Min Month	
Existing Load	0.00		0.00		0.00		0		0		0	
Added (New) Load	0.10		0.10		0.00		0		7		0	
Total Immediate Load	0.10		0.10		0.00		0		7		0	
Additional Future Load	0.00		0.00		0.00		0		0		0	
Total Potential Load	0.10		0.10		0.00		0		7		0	
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
Annual Load Additions	40	0	0	0	0	0	0	0	0	0		
Month of Max Day for New Load: JAN			Year for Additional Future Load : 0									
Minimum Month for New Load : AUG			Minimum Delivery Pressure Required: 7"WC									

\*\* NEW LOAD DESCRIPTION \*\*

Description	# of Units	Connect MCF/Hr	MCF/Yr
1. Heating	1	0.10	40

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NEW LOAD DATA SHEET DETAILS

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COMMERCIAL NLDS CS091675

\*\* GAS SUPPLY INFORMATION \*\*

Quality of Service	Existing Requirements	Added Requirements	Future Added (3rd Yr)	Current Forecast (3rd Yr)
Daily MCF				
Firm Sales	0	0	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Daily MCF	0	0	0	0
Annual MCF				
Firm Sales	0	40	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Annual MCF	0	40	0	0

A request for contract change must be submitted to the Gas Transportation Department for any new load served by a GTS contract.

\*\* SOURCE OF SUPPLY \*\*

\*\* DISTRIBUTION INFORMATION

Existing Measurement Station No.	DIS System No. 37034030-	TBS No.
Existing CAB Customer? NO	Map No. 7612416A	TBS Name
Maximum Main Pressure (MAOP) 35#	Pressure Range, Normal 30#	Pressure Range, Minimum 8#
<b>** TRANSMISSION INFORMATION</b>		
Transmission Company	Transmission Line No.	
New Transmission Tap Required ? NO		

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NEW LOAD DATA SHEET DETAILS

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COMMERCIAL NLDS C\$091675

** FACILITIES COST **			** MINIMUM ** 1 year buildout						** RECOMMENDED ** 1 year buildout											
	Num Srvcs	Num Meters	Extension	Bettermnt	Cost per-->			0	40	64	Extension	Bettermnt	Cost per-->			0	40	64		
					Relocatr	CmpSrvLn	N/R Set						Relocatr	CmpSrvLn	N/R Set				CustM/R	
Yr 1	0	1	0	0	0	0	0	40	64	0	0	0	0	0	40	64	0			
Yr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			Total MINIMUM Investment:						\$			Total RECOMMENDED Investment:						\$		

Dig and Backfill(CIAC) \$: 0  
 Job Order Number(s) :  
 Addl Plant Maintenance \$: Yr1:0 Yr2:0 Yr3:0 Yr4:0 Yr5:0 Yr6:0 Yr7:0 Yr8:0 Yr9:0 Yr10:0

\*\* INVESTMENT DESCRIPTION \*\*

Proposed Facilities: (Description)  
 Plant & Service Department  
 Pipe name: 6sx6h10M  
 Line Extension: NA  
 WMS Job Order: NA  
 \*\*\*\* (MORE) - SEE ATTACHMENT PAGES FOR FULL DESCRIPTION \*\*\*\*

\*\* CASH FLOW INPUTS \*\*

Rate Number . . . . .	SGS	Rate Type . . . . .	Tariff	Monthly Customer Charge(\$)	16.98	Promotional Expenses(\$)	** Volume Spreads **								
							Annual	Step 1	Step 2	Step 3	Step 4	Step 5			
Rate Factors, Step 1 . . . . .	11.7003	Amounts	50	9999999	0	Upfront	0	0	0	0	0	0	0	0	0
2 . . . . .	11.7003					Year 1	0	40	40	0	0	0	0	0	0
3 . . . . .	0.0000					Year 2	0	0	0	0	0	0	0	0	0
4 . . . . .	0.0000					Year 3	0	0	0	0	0	0	0	0	0
5 . . . . .	0.0000					Year 4	0	0	0	0	0	0	0	0	0
						Year 5	0	0	0	0	0	0	0	0	0
						Year 6	0	0	0	0	0	0	0	0	0
						Year 7	0	0	0	0	0	0	0	0	0
						Year 8	0	0	0	0	0	0	0	0	0
						Year 9	0	0	0	0	0	0	0	0	0
						Year 10	0	0	0	0	0	0	0	0	0
Gas Cost . . . . . 9.6816						Total \$	0								
Existing Customer? . . . . . N (Y/N)															
Term for Cash Flow Analysis . . . . . 7 Years															

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\*\* INVESTMENT DESCRIPTION FOR NLDS CS091675 \*\*

Proposed Facilities: (Description)  
Plant & Service Department  
Pipe name: 6sx6h10M

Line Extension: NA

WMS Job Order: NA

Domestic \_\_\_ Meter Size

Domestic \_\_\_ Meter Type

Domestic \_\_\_ House Regulator Size

Domestic \_\_\_ House Regulator Type

Customer Service Line \_\_\_\_\_ feet of \_\_\_\_\_ inch \_\_\_\_\_ pipe.  
Company Service Line \_\_\_\_\_ feet of \_\_\_\_\_ inch \_\_\_\_\_ pipe.

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NEW LOAD DATA SHEET DETAILS

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COMMERCIAL NLDS CS091676

\*\* CUSTOMER DATA \*\*

Customer Name UNIT 30		County FAYETTE			Date of Request 03/05/2009	
Service Address 1321 CORNELLSVILLE		Town or Township LEMONT FURNACE	State PA	Zip 15456	Date Resp to Cust Reqd 03/25/2009	
Contact Name; Address; Telephone ELIAS NICKMAN; 5 NICKMAN PL, LEMONT FURNACE, PA 15456; 724-880-0183				SIC Code 5999	Serv Line Commit Date 05/01/2009	
Addition Type N: New Construction		Building Type F: RETAIL	Rate Number SGS	Square 6800	Footage New Set Commit Date	
Market Rep. ID MBATEMA	Customer Flow Date 2009-05-01	Market Segment Type N2 - Commercial Retail (Non-Process)			PSID 501053091	
Comment:						

\*\* LOAD DATA \*\*

Volume Description	Connected Load MCF/Hr	Operating Usage - MCF														
		Max Hr	Normal Hr	Max Day	Max Month	Min Month	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Existing Load	0.00	0.00	0.00	0	0	0										
Added (New) Load	0.10	0.10	0.00	0	7	0										
Total Immediate Load	0.10	0.10	0.00	0	7	0										
Additional Future Load	0.00	0.00	0.00	0	0	0										
Total Potential Load	0.10	0.10	0.00	0	7	0										
Annual Load Additions		40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Month of Max Day for New Load:		JAN		Year for Additional Future Load:		0										
Minimum Month for New Load:		AUG		Minimum Delivery Pressure Required:		7"WC										

\*\* NEW LOAD DESCRIPTION \*\*

Description	# of Units	Connect MCF/Hr	MCF/Yr
1. Heating	1	0.10	40

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NEW LOAD DATA SHEET DETAILS

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COMMERCIAL NLDS CS091676

\*\* GAS SUPPLY INFORMATION \*\*

Quality of Service	Existing Requirements	Added Requirements	Future Added (3rd Yr)	Current Forecast (3rd Yr)
Daily MCF				
Firm Sales	0	0	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Daily MCF	0	0	0	0
Annual MCF				
Firm Sales	0	40	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Annual MCF	0	40	0	0

A request for contract change must be submitted to the Gas Transportation Department for any new load served by a GTS contract.

\*\* SOURCE OF SUPPLY \*\*

\*\* DISTRIBUTION INFORMATION

Existing Measurement Station No.	DIS System No. 37034030-	TBS No.
Existing CAB Customer? NO	Map No. 7612416A	TBS Name
Maximum Main Pressure (MAOP) 35#	Pressure Range, Normal 30#	Pressure Range, Minimum 8#

\*\* TRANSMISSION INFORMATION

Transmission Company	Transmission Line No.
New Transmission Tap Required ? NO	

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990714 PAGE 24  
COMMERCIAL NLDS CS091676

** FACILITIES COST **			** MINIMUM ** 1 year buildout						** RECOMMENDED ** 1 year buildout						
	Num Srvcs	Num Meters	Cost per->						Cost per->						
			Extension	Bettermnt	Relocatn	CmpSrvLn	M/R Set	CustM/R	Extension	Bettermnt	Relocatn	CmpSrvLn	M/R Set	CustM/R	
Yr 1	0	1	0	0	0	0	0	40	64	0	0	0	0	40	64
Yr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Total MINIMUM Investment:						Total RECOMMENDED Investment:						
			\$ 104						\$ 104						

Dig and Backfill(CIAC) \$: 0  
 Job Order Number(s) :  
 Addl Plant Maintenance \$: Yr1:0 Yr2:0 Yr3:0 Yr4:0 Yr5:0 Yr6:0 Yr7:0 Yr8:0 Yr9:0 Yr10:0

\*\* INVESTMENT DESCRIPTION \*\*

Proposed Facilities: (Description)  
 Plant & Service Department  
 Pipe name: 6sx6h10M  
 Line Extension: NA  
 WMS Job Order: NA  
 \*\*\*\* (MORE) - SEE ATTACHMENT PAGES FOR FULL DESCRIPTION \*\*\*\*

\*\* CASH FLOW INPUTS \*\*

Rate Number . . . . .	SGS	Rate Type . . . . .	Tariff	Monthly Customer Charge(\$)	16.98	Promotional Expenses(\$)	** Volume Spreads **								
							Annual	Step 1	Step 2	Step 3	Step 4	Step 5			
Rate Factors, Step 1 . . . . .	11.7003	Amounts			50	Upfront	0								
2 . . . . .	11.7003				9999999	Year 1	0	40	40	0	0	0	0	0	0
3 . . . . .	0.0000				0	Year 2	0	0	0	0	0	0	0	0	0
4 . . . . .	0.0000				0	Year 3	0	0	0	0	0	0	0	0	0
5 . . . . .	0.0000				0	Year 4	0	0	0	0	0	0	0	0	0
					0	Year 5	0	0	0	0	0	0	0	0	0
					0	Year 6	0	0	0	0	0	0	0	0	0
					0	Year 7	0	0	0	0	0	0	0	0	0
					0	Year 8	0	0	0	0	0	0	0	0	0
					0	Year 9	0	0	0	0	0	0	0	0	0
					0	Year 10	0	0	0	0	0	0	0	0	0
Gas Cost . . . . .	9.6816					Total \$	0								
Existing Customer? . . . . .	N (Y/N)														
Term for Cash Flow Analysis . . . . .	7 Years														

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14:24:35

ATTACHMENT(S) FOR NEW LOAD DATA SHEET

New Load Project: WMS0990714 Page 25

\*\* INVESTMENT DESCRIPTION FOR NLDS C\$091676 \*\*

Proposed Facilities: (Description)  
Plant & Service Department  
Pipe name: 6sx6h10M

Line Extension: NA

WMS Job Order: NA

Domestic \_\_\_ Meter Size  
Domestic \_\_\_ Meter Type  
Domestic \_\_\_ House Regulator Size  
Domestic \_\_\_ House Regulator Type

Customer Service Line \_\_\_ feet of \_\_\_ inch \_\_\_ pipe.  
Company Service Line \_\_\_ feet of \_\_\_ inch \_\_\_ pipe.

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MEMO ATTACHMENTS FOR NEW LOAD PROJECT

New Load Project: WMS0990714 Page 26

\*\* MEMO M0001 \*\*

From ..... MELINDA BATEMAN  
To ..... ALL  
Date ..... 03/05/09  
Subject ..... DETAILS

This bldg is up. Gas was an after thought. Customer would like gas as soon as we can get it there. Customer would like service line to tap off Park Street. Meter location in the back middle of the building which is a straight line out to Park. Customer is requesting 6 meters at this time 5 will have a load of 100,000 each and the 6th one is a restaurant at 700,000 btu's. However, customer wants to build a 2 tier manifold just in case the 6 units on top decide to go gas. He is requesting a consult as soon as this project is approved. I will email a site plan today.  
Thanks Melinda

\*\* MEMO M0003 \*\*

From ..... MIKE ZAVATCHEN  
To ..... ALL  
Date ..... 03/06/09  
Subject ..... DESIGN

Verified through Stoner - OK to tap off 2"WTMP on Park St. Sized the meter & regulator for Units 20, 22, 24, 28, & 30 as domestic. For Unit 26 (restaurant)-domestic regulator & an AL-800 meter. Sized the service line for 1 1/4" plastic (potential for 6 additional units). I spoke to Rob Sleighter (Sleighter Engr) & he said that there are 2 parcels of land involved. CPA will install the tap off Park St & the customer s1 will cross one of the parcels to get to the other. CPA will need to see a copy of the recorded right of way from the developer before making the tap (both parcels are the same owner). Take a consult order to have the service tech advise. Also, OK with the meters in back, half way back as long as everything is installed per code.MZ

\*\* MEMO M0004 \*\*

From ..... NICOLE BOYER  
To ..... VGRIFFI  
Date ..... 03/06/09  
Subject ..... RECOMMENDATION

Recommending approval per Plant Investment \$2,415. No deposit required. IRR is 92.87%. Payback period of 1yr/1 mos. Min and Rec the same. Project will require 6 meters and 1 tap.

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ATTACHMENTS FOR NEW LOAD PROJECT

New Load Project: WMS0990714 Page 27

\*\*\* FINAL PAGE OF PROJECT: List of Other Attachments which are not available through the NLRS \*\*\*

Please refer to any attachments which are marked below for more information about this project.

- Plat Maps
- Sketches
- Development Drawings
- Operating Maps
- Peak Day Maps
- Network Analysis
- Mechanical Plan
- Job Order (Work Order)
- Plat/Street Plans
- M & R Request
- Land Service Requested
- Line Extension Agreement
- Rights-of-way Request
- TCO Tap Request
- Dig & Backfill Agreement
- Other

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14:26:29

COLUMBIA GAS DISTRIBUTION COMPANIES  
NEW LOAD REPORTING SYSTEM PROJECT INFORMATION  
PROJECT DETAIL

PAGE 1

New Load Project Id Number .. WMS0990823  
Project Name ..... ROBERT COLE  
Project Type ..... RESIDENTIAL  
Priority ..... \*RUSH\*  
Prepared by ..... LA JUNE TRAVIS (U123833)

Master Project Id .....  
Company ..... COLUMBIA GAS OF PENNSYLVANIA  
District ..... UNIONTOWN DISTRICT  
Location ..... 2321: UNIONTOWN AREA  
City ..... MADISON

Required Approval ..... REP: \*\* UNDER \$25,000  
Approval Status ..... REP: \*\* UNDER \$25,000  
Project Status ..... AC : Active: Gas turned on.

PROJECT SUMMARY DATA

Number of New Load Data Sheets .... 1  
Date Response to Customer Reqd .... 04/02/09

Buildout Years ..... 1  
Future ..... 0

	MINIMUM	RECOMMENDED	*** CASH FLOW ANALYSIS RESULTS ***	MINIMUM	RECOMMENDED
Total Added Connect Ld (MCF/Hr) ...	0.06	0.06	Net Present Value (NPV) Cash Flow \$	-513	-513
Total Added Max Hour (MCF/Hr) .....	0.06	0.06	Required Deposit .....	513	513
Total Added Max Day (MCF) .....	1	1	Actual Deposit .....	513	
Load Increase (MCF) .....	54	54	Internal Rate of Return .....	4.50%	4.50%
Plant Investment (Facility Cost) .....	3,155	3,155	Discounted Payback Period .....	OVER 20	OVER 20
Mainline Extension Costs .....	2,301	2,301	CVA NPV .....	39	39
			Year CVA Positive .....	6	6

MMI Cost/Foot ..... 0.00 Budgeted ..... 7.34  
Feet/Customer ..... 0 Budgeted ..... 89  
MPI Cost/Customer ..... 2301 Budgeted ..... 1034

COMMENTS

SIGNATURES TO DATE

Userid	Name	Title	Stp	Date Signed	Signature Type
U123833	LA JUNE TRAVIS	NBT COORDINATOR	D01	03/13/09	RELEASE
MZAVATC	MIKE ZAVATCHEN	ENGR TECH	D02	03/13/09	RELEASE
KPHILLI	KENNETH PHILLIAN	ENGR FIELD	D02	03/16/09	RELEASE
U122686	EMILY HILDENBRAND	ENGR TECH	D02	03/16/09	RELEASE
U123833	LA JUNE TRAVIS	NBT COORDINATOR	D04	03/16/09	RELEASE
VGRIFFI	VONDA GRIFFIN	NBT TEAM LEADER	D04	03/16/09	RELEASE

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990823 PAGE 2  
RESIDENTIAL NLDs RS091770

\*\* RESIDENTIAL CUSTOMER DATA \*\*

Customer/Development Name ROBERT COLE				Builder/Developer HOME OWNER			Date of Request 03/13/2009		
Street(s) 710 MEADOW LANE MADISON PA 15663				Between MAIN ST AND CUL DE SAC			Date Resp to Cust Req 04/02/2009		
City MADISON		State PA	Zip 15663	County WESTMORELAND		Rate Number RS		Gas Required Date 04/13/2009	
Contact Name; Address; Telephone ROBERT COLE; 710 MEADOW LANE MADISON PA 15663; 724-446-7562							PSID 501053331		
Supply Pipe = 0		Subdivision Pipe = 0		Batterment Pipe = 0		Relocation Pipe = 0		Total Pipe = 0	
Mkt Rep. ID : U123833		Customer Flow Date: 04/13/2009		MKT SEGMENT TYPE: R1 - Residential (Non-Process)					
Addition Type: -		Comment:							

\*\* UNIT ADDITIONS \*\*

Bulldout Years: 1      Future Bulldout Years: 0      Total Project Bulldout Years: 1

Type of Units	Bulldout	Futura	Project	Number of Units												
				Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10			
SF New Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MF New Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Possible Conversions	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Units w/Add-on Heat Pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0

\*\* HEATING CALCULATIONS \*\*

Type of Units	Avg Sq Ft Per Unit	Space Ht Factors	Heat Ld Percent	Ht Ld												
				Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10			
SF New Construction	0	0.0270	100	0	0	0	0	0	0	0	0	0	0	0	0	0
MF New Construction	0	0.0190	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Possible Conversions	2000	0.0270	100	54	0	0	0	0	0	0	0	0	0	0	0	0
Units w/Add-on Heat Pump	0	0.0150	100	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL				54	0	0	0	0	0	0	0	0	0	0	0	0

\*\* OTHER LOAD Calculation Parameters \*\*

\*\* LOAD CALCULATION \*\*

Description	MCF/Yr	Percent	Year				Total
			Year	NmUnits	Heat Load	Added Other	
Heating	54	100	1	1	54	0	54
WATER HEATING	20	0	2	0	0	0	0
COOKING	0	0	3	0	0	0	0
DRYING	2	0	4	0	0	0	0
LIGHTS	10	0	5	0	0	0	0
LOGS/FIREPLACE	6	0	6	0	0	0	0
GRILLS	2	0	7	0	0	0	0
Pool Heater	20	0	8	0	0	0	0
Air Conditioning	0	0	9	0	0	0	0
Other+	0	0	10	0	0	0	0
TOTAL				1	54	0	54

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990823 PAGE 3  
RESIDENTIAL NLDS RS091770

\*\* LOAD DATA \*\*

Volume Description	Connected Load MCF/Hr	Operating Usage - MCF									
		Max Hr	Normal Hr	Max Day	Max Month	Min Month					
Existing Load	0.00	0.00	0.00	0	0						
Added (New) Load	0.06	0.06	0.02	1	11						
Total Immediate Load	0.06	0.06	0.02	1	11						
Additional Future Load	0.00	0.00	0.00	0	0						
Total Potential Load	0.06	0.06	0.02	1	11						
Annual Load Additions		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
		54	0	0	0	0	0	0	0	0	0
Month of Max Day for New Load: JAN		Year for Additional Future Load : 0									
Minimum Month for New Load : JUL		Minimum Delivery Pressure Required: 7"WC									

\*\* NEW LOAD DESCRIPTION \*\*

Description	# of Units	Connect MCF/Hr	MCF/Yr
1. Heating	1	0.00	54

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMS0990823 PAGE 4  
RESIDENTIAL NLDS R\$091770

\*\* GAS SUPPLY INFORMATION \*\*

Quality of Service	Existing Requirements	Added Requirements	Future Added (3rd Yr)	Current Forecast (3rd Yr)
Daily MCF				
Firm Sales	0	1	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Daily MCF	0	1	0	0
Annual MCF				
Firm Sales	0	54	0	0
Standby Sales	0	0	0	0
Interruptible Sales	0	0	0	0
Interruptible Transportation	0	0	0	0
Total Annual MCF	0	54	0	0

A request for contract change must be submitted to the Gas Transportation Department for any new load served by a GTS contract.

\*\* SOURCE OF SUPPLY \*\*

\*\* DISTRIBUTION INFORMATION

Existing Measurement Station No.	DIS System No. 37034209-	TBS No.
Existing CAB Customer? NO	Map No. 7612452A	TBS Name
Maximum Main Pressure (MAOP) 5	Pressure Range, Normal 4.5	Pressure Range, Minimum 2

\*\* TRANSMISSION INFORMATION

Transmission Company	Transmission Line No.
New Transmission Tap Required ? NO	

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NEW LOAD DATA SHEET DETAILS

New Load Project: WMSD990823 PAGE 5  
RESIDENTIAL NLDS R\$091770

** FACILITIES COST **			** MINIMUM ** 1 year buildout						** RECOMMENDED ** 1 year buildout					
Yr	Num Srvcs	Num Meters	Cost per->			750 CmpSrvLn	40 M/R Set	64 CustM/R	Cost per->			750 CmpSrvLn	40 M/R Set	64 CustM/R
			Extension	Bettermnt	Relocatn				Extension	Bettermnt	Relocatn			
Yr 1	1	1	2301	0	0	750	40	64	2301	0	0	750	40	64
Yr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Total MINIMUM Investment:						Total RECOMMENDED Investment:					
			\$ 3,155						\$ 3,155					

Dig and Backfill(CIAC) \$: 0  
 Job Order Number(s) : 09-0238738-00  
 Addl Plant Maintenance \$: Yr1:0 Yr2:0 Yr3:0 Yr4:0 Yr5:0 Yr6:0 Yr7:0 Yr8:0 Yr9:0 Yr10:0

\*\* INVESTMENT DESCRIPTION \*\*

Proposed Facilities: (Description)  
lay 125'-2"pip

WMS Job Order: 09023873800  
 \*\*\*\* (MORE) - SEE ATTACHMENT PAGES FOR FULL DESCRIPTION \*\*\*\*

\*\* CASH FLOW INPUTS \*\*

Rate Number	RS	Rate Type	Tariff	Monthly Customer Charge(\$)	Promotional Expenses(\$)	** Volume Spreads **					
						Annual	Step 1	Step 2	Step 3	Step 4	Step 5
Rate Factors, Step 1	13.4546	Amounts	9999999	0	Upfront	0	0	0	0	0	0
2.	0.0000		0	0	Year 1	50	50	0	0	0	0
3.	0.0000		0	0	Year 2	0	0	0	0	0	0
4.	0.0000		0	0	Year 3	0	0	0	0	0	0
5.	0.0000		0	0	Year 4	0	0	0	0	0	0
					Year 5	0	0	0	0	0	0
					Year 6	0	0	0	0	0	0
					Year 7	0	0	0	0	0	0
					Year 8	0	0	0	0	0	0
					Year 9	0	0	0	0	0	0
					Year 10	0	0	0	0	0	0
Gas Cost. . . . . 9.6816						Total \$	0				
Existing Customer? . . . . . N (Y/N)											
Term for Cash Flow Analysis. . . . . 15 Years											

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ATTACHMENT(S) FOR NEW LOAD DATA SHEET

New Load Project: WMS0990823 Page 6

\*\* INVESTMENT DESCRIPTION FOR NLDS RS091770 \*\*

Proposed Facilities: (Description)  
lay 125'-2" pip

WMS Job Order: 09023873800

dom \_\_\_\_\_ Meter Size  
dom \_\_\_\_\_ Meter Type  
dom \_\_\_\_\_ House Regulator Size  
dom \_\_\_\_\_ House Regulator Type

Customer Service Line \_\_\_\_\_ feet of \_\_\_\_\_ inch \_\_\_\_\_ pipe.  
Company Service Line \_\_\_\_\_ feet of \_\_\_\_\_ inch \_\_\_\_\_ pipe.

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MEMO ATTACHMENTS FOR NEW LOAD PROJECT

New Load Project: WMS0990823 Page 7

\*\* MEMO M0001 \*\*

From ..... LA JUNE TRAVIS  
To ..... ALL  
Date ..... 03/13/09  
Subject ..... PROJECT INFORMATION

This is a residential conversion customer located in Madison Pa, Converti  
ng heat only and property is 2000 square feet. LS indicates 123' ML ext is  
needed. Cust needs heat ASAP due to medical emergency can no longer use  
current heat source. Please contact LTravis at 800 440 6111 ext 3352 with  
any questions.

\*\* MEMO M0002 \*\*

From ..... EMILY HILDENBRAND  
To ..... ALL  
Date ..... 03/16/09  
Subject ..... ESTIMATE

lay 125'-2" pip with company crews. domestic reg and meter. and q's, call  
emily

\*\* MEMO M0003 \*\*

From ..... LA JUNE TRAVIS  
To ..... VGRIFFI  
Date ..... 03/16/09  
Subject ..... RECOMMENDATION MEMO

I recommend approval of this project pending receipt of \$513.00 deposit  
and signed LEA based on computer generated cost analysis. Plant INV is  
\$3,155.00 and IRR is 4.50%, discounted payback period over 20 years. This  
project will require 125' main line extension and 1 tap and 1 meter.

\*\* MEMO M0004 \*\*

From ..... LA JUNE TRAVIS  
To ..... ALL  
Date ..... 03/26/09  
Subject ..... DEPOSIT RECEIVED

Received DEPOSIT & LEA agreement. Ok to release 555 to construction ser  
vice. cc Terry Mason. Please call ltravis @ 800 440 6111 ext 3352 with  
any questions.

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ATTACHMENTS FOR NEW LOAD PROJECT

New Load Project: WMS0990823 Page 8

\*\* FINAL PAGE OF PROJECT: List of Other Attachments which are not available through the NLRS \*\*

Please refer to any attachments which are marked below for more information about this project.

- Plat Maps
- Sketches
- Development Drawings
- Operating Maps
- Peak Day Maps
- Network Analysis
- Mechanical Plan
- Job Order (Work Order)
- Plat/Street Plans
- M & R Request
- Land Service Requested
- Line Extension Agreement
- Rights-of-way Request
- TCO Tap Request
- Dig & Backfill Agreement
- Other

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-10:

Please provide a detailed supply and requirement schedule for the Company's three most recent annual peak days and for design day. The schedules should include deliveries by source and requirements by rate schedule. Identify sources and requirements for transportation customers separately. Also include the Company's daily sendout sheet for each peak day and applicable weather data.

Response:

COS-10 Attachment A of this response provides the actual peak day requirements and associated supplies by source for the Company's peak day each winter for the 2009/10 through 2011/12 heating seasons. The requirements shown represent the Company's total throughput. The breakdown by class is an estimate since actual daily-metered volumes are not available for all customers and are based on an analysis of both daily and monthly billing data for the Company's customers. Also shown for each day are the actual weather conditions of most significance (current day average temperature, prior day average temperature, and current day average wind speed).

COS-10 Attachment B separately provides the estimated requirements of the Company's Gas Distribution Service customers by rate schedule and their associated supply for the Company's actual peak days each winter for the 2009/10 through 2011/12 heating seasons.

COS-10 Attachment C provides the peak day requirements, as contained on COS-10 Attachment A, segregated by rate schedule and service type (Sales, Choice, and Gas Distribution Service). The allocation of requirements by rate schedule and service type is estimated based on actual monthly billing information.

COS-10 Attachment D provides by revenue class the peak day requirements for Winter 2012/13 as expected at the Company's design day conditions. Also shown are the supply sources required by the Company to meet its design peak day firm service obligations.

COS-10 Attachment E provides the winter 2012/13 forecasted design peak day requirements, as contained on COS-10 Attachment D, segregated by rate schedule and service type.

**Columbia Gas of Pennsylvania**

**Historical Peak Day**

Units are in MDth/Day

				<b>Historical Winter Season</b>		
				<b>2009 / 10</b>	<b>2010 / 11</b>	<b>2011 / 12</b>
<b>Day of Week</b>				Sat	Sun	Tue
<b>Date</b>				Jan. 2	Jan. 23	Jan. 3
<b>Current Day Average Temp</b>				14° F	10° F	15° F
<b>Prior Day Average Temp</b>				24° F	15° F	26° F
<b>Current Day Average Wind Speed</b>				20 mph	6 mph	10 mph
<b>Requirements <sup>(1)</sup></b>						
Residential			325.3	326.2	291.6	
Commercial			175.2	175.3	157.0	
Industrial			58.7	73.1	80.6	
<b>Total Retail:</b>			<b>559.2</b>	<b>574.6</b>	<b>529.3</b>	
<b>Company Use:</b>			0.3	0.3	0.3	
<b>Unaccounted For:</b>			2.0	1.6	2.0	
<b>Total Requirements:</b>			<b>561.5</b>	<b>576.5</b>	<b>531.5</b>	
<b>Supply <sup>(2)</sup></b>						
Columbia Gas Transmission Corp.			471.5	488.2	459.2	
Dominion			7.2	7.1	10.5	
Equitrans			18.8	17.0	0.0	
National Fuel Gas Supply Corp.			3.9	5.2	4.5	
Tennessee Gas Pipeline			20.5	20.0	20.3	
Texas Eastern Transmission			30.9	34.8	32.2	
Direct Local			8.7	4.2	4.9	
Blackhawk Storage			0.0	0.0	0.0	
<b>Total Supply:</b>			<b>561.5</b>	<b>576.5</b>	<b>531.5</b>	

<sup>(1)</sup> Total actual throughput; breakdown by category/class is an estimate.

<sup>(2)</sup> Actual supplies via identified sources.

**Columbia Gas of Pennsylvania**

**Historical Peak Day Requirements of Delivery Service Customers by Rate Schedule and Associated Supply by Source <sup>(1)</sup>**

Units are in MDth

		<b>Historical Winter Season</b>		
		<b>2009 / 10</b>	<b>2010 / 11</b>	<b>2011 / 12</b>
<b>Day of Week</b>	<b>Date</b>	Sat Jan. 2	Sun Jan. 23	Tue Jan. 3
<b>Current Day Average Temp</b>	14° F	10° F	15° F	15° F
<b>Prior Day Average Temp</b>	24° F	15° F	26° F	26° F
<b>Current Day Average Wind Speed</b>	20 mph	6 mph	10 mph	10 mph
<b>Requirements <sup>(2)</sup></b>				
<b>Commercial</b>				
SGDS		22.4	24.0	15.4
LDS		11.0	10.7	10.8
MLDS		0.7	0.7	0.5
NCS		0.1	0.1	0.0
SDS		29.8	29.0	20.3
<b>Total Commercial</b>		<b>64.0</b>	<b>64.5</b>	<b>47.0</b>
<b>Industrial</b>				
SGDS		0.4	0.5	0.3
LDS		26.1	32.5	34.8
MLDS		13.0	16.2	19.4
NCS		11.0	13.8	15.2
SDS		7.6	9.5	10.3
<b>Total Industrial</b>		<b>58.1</b>	<b>72.5</b>	<b>80.0</b>
<b>Requirements</b>		<b>122.1</b>	<b>137.0</b>	<b>127.0</b>
<b>Supply <sup>(3)</sup></b>				
Columbia Gas Transmission Corp.		109.4	124.7	112.5
Dominion Transmission Inc.		0.0	0.8	3.5
Equitrans		0.0	0.0	0.0
National Fuel Gas Supply Corp.		0.0	0.1	0.1
Tennessee Gas Pipeline		4.0	4.7	5.0
Texas Eastern Transmission		0.3	0.3	0.3
Direct Local		8.4	6.4	5.6
<b>Total Supply:</b>		<b>122.1</b>	<b>137.0</b>	<b>127.0</b>

<sup>(1)</sup> Excludes Choice quantities (SCD).

<sup>(2)</sup> Allocation of daily rate schedule requirement based on actual rate schedule demand for month.

<sup>(3)</sup> Transportation supplies via identified sources.

## Columbia Gas Of Pennsylvania

### Historical Peak Day Requirements by Rate Schedule Volume in MDth/Day

	Jan. 2, 2010 Total Demand			Jan. 23, 2011 Total Demand			Jan. 3, 2012 Total Demand		
	Tariff	Choice/GDS	Total Throughput	Tariff	Choice/GDS	Total Throughput	Tariff	Choice/GDS	Total Throughput
<b>Residential</b>									
RSS	235.3	0.0	235.3	238.9	0.0	238.9	189.8	0.0	189.8
RDGSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAP	29.9	0.0	29.9	30.4	0.0	30.4	22.8	0.0	22.8
PPS	1.9	0.0	1.9	1.9	0.0	1.9	0.6	0.0	0.6
PS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RDS	0.0	58.2	58.2	0.0	55.0	55.0	0.0	78.4	78.4
RDGDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Residential Total</b>	<b>267.1</b>	<b>58.2</b>	<b>325.3</b>	<b>271.2</b>	<b>55.0</b>	<b>326.2</b>	<b>213.2</b>	<b>78.4</b>	<b>291.6</b>
<b>Commercial</b>									
SGSS	94.8	0.0	94.8	95.8	0.0	95.8	84.2	0.0	94.8
LGSS	7.2	0.0	7.2	7.0	0.0	7.0	6.1	0.0	7.2
NSS	1.7	0.0	1.7	1.6	0.0	1.6	1.8	0.0	1.7
SDSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MLSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NGV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPS	0.2	0.0	0.2	0.2	0.0	0.2	0.1	0.0	0.2
SGDS	0.2	22.4	22.6	0.2	24.0	24.2	0.0	15.4	22.6
LDS	0.0	11.0	11.0	0.0	10.7	10.7	0.0	10.8	11.0
MLDS	0.0	0.7	0.7	0.0	0.7	0.7	0.0	0.5	0.7
SCD	0.0	7.1	7.1	0.0	6.0	6.0	0.0	17.8	7.1
NCS	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1
CDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DGDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SDS	0.0	29.8	29.8	0.0	29.0	29.0	0.0	20.3	29.8
EBS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total Commercial</b>	<b>104.1</b>	<b>71.1</b>	<b>175.2</b>	<b>104.8</b>	<b>70.5</b>	<b>175.3</b>	<b>92.2</b>	<b>64.8</b>	<b>157.0</b>
<b>Industrial</b>									
SGSS	0.3	0.0	0.3	0.3	0.0	0.3	0.4	0.0	0.4
LGSS	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.0	0.2
NSS	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0
SDSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MLSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NGV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SGDS	0.0	0.4	0.4	0.0	0.5	0.5	0.0	0.3	0.3
LDS	0.0	26.1	26.1	0.0	32.5	32.5	0.0	34.8	34.8
MLDS	0.0	13.0	13.0	0.0	16.2	16.2	0.0	19.4	19.4
SCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NCS	0.0	11.0	11.0	0.0	13.8	13.8	0.0	15.2	15.2
CDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DGDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SDS	0.0	7.6	7.6	0.0	9.5	9.5	0.0	10.3	10.3
EBS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total Industrial</b>	<b>0.6</b>	<b>58.1</b>	<b>58.7</b>	<b>0.6</b>	<b>72.5</b>	<b>73.1</b>	<b>0.6</b>	<b>80.0</b>	<b>80.6</b>
<b>Other</b>	<b>2.3</b>	<b>0.0</b>	<b>2.3</b>	<b>1.9</b>	<b>0.0</b>	<b>1.9</b>	<b>2.3</b>	<b>0.0</b>	<b>2.3</b>
<b>Historical Peak</b>	<b>374.1</b>	<b>187.4</b>	<b>561.5</b>	<b>378.5</b>	<b>198.0</b>	<b>576.5</b>	<b>308.3</b>	<b>223.2</b>	<b>531.5</b>

Note: Allocation based on monthly billing information.

**Columbia Gas of Pennsylvania**  
**Forecasted Design Day Requirements and Supply**  
**For 2012/13 Heating Season**  
 Units are in MDth/Day

		<b>Total Design Day Demand</b>
<b>Day of Week</b>		<b>2012 / 13</b> Weekday
<b>Current Day Average Temp</b>		-5° F
<b>Prior Day Average Temp</b>		6° F
<b>Current Day Average Wind Speed</b>		11mph
<b>Requirements (1)</b>		
<b>Firm :</b>	Residential	470.1
	Commercial (2)	185.7
	Industrial (2)	8.2
	Company Use	0.3
	Unaccounted For Gas	1.5
	<b>Total Firm:</b>	<b>665.8</b>
<b>Non-Firm:</b>	Residential	0.0
	Commercial	60.1
	Industrial	83.8
	<b>Total Non-Firm:</b>	<b>143.9</b>
	<b>Total Requirements:</b>	<b>809.7</b>
<b>Supply (3)</b>		
	Columbia Gas Transmission Corp.	584.2
	Dominion	9.0
	Equitrans	19.1
	National Fuel Gas Supply Corp.	4.2
	Tennessee Gas Pipeline	19.3
	Texas Eastern Transmission	19.3
	Direct Local	0.7
	Blackhawk Storage	10.0
	<b>Total Firm Supply:</b>	<b>665.8</b>

(1) Per CPA's "2011 Peak Day Forecast."

(2) Includes Standby Service and Elective Balancing Service quantities.

(3) Supply provided by CPA and Choice Natural Gas Suppliers.

**Columbia Gas Of Pennsylvania**  
 2011 Peak Day Forecast, 2011/12 - 2015/16

**2012/13 Peak Day Requirements by Rate Schedule**  
 Volume in MDth/Day

	Total Demand			Firm Demand			Non-Firm Demand			Additional Firm Obligation	Total Firm Obligation
	Tariff	GTS	Throughput	Tariff	GTS	Throughput	Tariff	GTS	Throughput		
<b>Residential</b>											
RSS	311.2	0.0	311.2	311.2	0.0	311.2	0.0	0.0	0.0	0.0	311.2
RDGSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAP	37.4	0.0	37.4	37.4	0.0	37.4	0.0	0.0	0.0	0.0	37.4
PPS	1.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0
PS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RDS	0.0	120.5	120.5	0.0	120.5	120.5	0.0	0.0	0.0	0.0	120.5
RDGDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Residential Total</b>	<b>349.6</b>	<b>120.5</b>	<b>470.1</b>	<b>349.6</b>	<b>120.5</b>	<b>470.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>470.1</b>
<b>Commercial</b>											
SGSS	135.5	0.0	135.5	135.5	0.0	135.5	0.0	0.0	0.0	0.0	135.5
LGSS	9.8	0.0	9.8	9.8	0.0	9.8	0.0	0.0	0.0	0.0	9.8
NSS	2.8	0.0	2.8	2.8	0.0	2.8	0.0	0.0	0.0	0.0	2.8
SDSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MLSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NGV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPS	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
SGDS	0.0	22.8	22.8	0.0	0.0	0.0	0.0	22.8	22.8	0.0	0.0
LDS	0.0	16.0	16.0	0.0	0.0	0.0	0.0	16.0	16.0	0.0	0.0
MLDS	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
SCD	0.0	27.9	27.9	0.0	27.9	27.9	0.0	0.0	0.0	0.0	27.9
NCS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DGDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SDS	0.0	30.1	30.1	0.0	0.0	0.0	0.0	30.1	30.1	6.5	6.5
EBS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
<b>Total Commercial</b>	<b>148.2</b>	<b>97.6</b>	<b>245.8</b>	<b>148.2</b>	<b>27.9</b>	<b>176.1</b>	<b>0.0</b>	<b>69.7</b>	<b>69.7</b>	<b>9.6</b>	<b>185.7</b>
<b>Industrial</b>											
SGSS	0.5	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.5
LGSS	0.2	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.2
NSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SDSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MLSS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NGV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SGDS	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0
LDS	0.0	39.7	39.7	0.0	0.0	0.0	0.0	39.7	39.7	0.0	0.0
MLDS	0.0	22.1	22.1	0.0	0.0	0.0	0.0	22.1	22.1	0.0	0.0
SCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NCS	0.0	17.3	17.3	0.0	0.0	0.0	0.0	17.3	17.3	0.0	0.0
CDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DGDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SDS	0.0	11.8	11.8	0.0	0.0	0.0	0.0	11.8	11.8	0.0	0.0
EBS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
<b>Total Industrial</b>	<b>0.7</b>	<b>91.3</b>	<b>92.0</b>	<b>0.7</b>	<b>0.0</b>	<b>0.7</b>	<b>0.0</b>	<b>91.3</b>	<b>91.3</b>	<b>7.5</b>	<b>8.2</b>
<b>Other</b>	<b>1.8</b>	<b>0.0</b>	<b>1.8</b>	<b>1.8</b>	<b>0.0</b>	<b>1.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.8</b>
<b>2012/13 Peak Day</b>	<b>500.3</b>	<b>309.4</b>	<b>809.7</b>	<b>500.3</b>	<b>148.4</b>	<b>648.7</b>	<b>0.0</b>	<b>161.0</b>	<b>161.0</b>	<b>17.1</b>	<b>665.8</b>

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-11:

Please provide copies of the Company's daily sendout sheets for November through March of the most recent heating season.

Response:

Please see COS-11 Attachment A showing the actual daily Dth sendout during the period November 1, 2011 through March 31, 2012.

**Columbia Gas of Pennsylvania**  
**Heating Season November 2011 Through March 2012**  
**Daily Dth Sendout**

GAS DATE	Net DTH
2011-11-01	255,509
2011-11-02	217,429
2011-11-03	191,498
2011-11-04	245,489
2011-11-05	256,406
2011-11-06	232,607
2011-11-07	203,138
2011-11-08	189,915
2011-11-09	177,379
2011-11-10	286,622
2011-11-11	310,353
2011-11-12	199,361
2011-11-13	157,213
2011-11-14	136,446
2011-11-15	167,536
2011-11-16	232,985
2011-11-17	355,032
2011-11-18	317,787
2011-11-19	203,319
2011-11-20	180,829
2011-11-21	250,361
2011-11-22	218,541
2011-11-23	266,897
2011-11-24	230,685
2011-11-25	203,303
2011-11-26	187,851
2011-11-27	159,706
2011-11-28	147,280
2011-11-29	235,174
2011-11-30	353,016
2011-12-01	334,483
2011-12-02	318,980
2011-12-03	268,856
2011-12-04	211,573
2011-12-05	185,993
2011-12-06	225,891
2011-12-07	325,453
2011-12-08	355,024
2011-12-09	307,010
2011-12-10	371,487
2011-12-11	389,408
2011-12-12	385,820
2011-12-13	312,948
2011-12-14	255,858

**Columbia Gas of Pennsylvania**  
**Heating Season November 2011 Through March 2012**  
**Daily Dth Sendout**

<b>GAS DATE</b>	<b>Net DTH</b>
2011-12-15	237,530
2011-12-16	321,671
2011-12-17	349,771
2011-12-18	359,096
2011-12-19	284,980
2011-12-20	265,786
2011-12-21	213,763
2011-12-22	224,895
2011-12-23	293,471
2011-12-24	296,244
2011-12-25	255,116
2011-12-26	301,622
2011-12-27	322,156
2011-12-28	409,654
2011-12-29	342,064
2011-12-30	240,017
2011-12-31	245,094
2012-01-01	289,478
2012-01-02	420,541
2012-01-03	531,544
2012-01-04	450,293
2012-01-05	360,860
2012-01-06	245,648
2012-01-07	252,862
2012-01-08	340,505
2012-01-09	336,980
2012-01-10	332,441
2012-01-11	306,809
2012-01-12	315,888
2012-01-13	484,595
2012-01-14	455,660
2012-01-15	468,128
2012-01-16	342,420
2012-01-17	304,896
2012-01-18	462,177
2012-01-19	473,309
2012-01-20	459,064
2012-01-21	449,465
2012-01-22	386,416
2012-01-23	306,631
2012-01-24	355,361
2012-01-25	350,510
2012-01-26	286,096
2012-01-27	325,884

**Columbia Gas of Pennsylvania**  
**Heating Season November 2011 Through March 2012**  
**Daily Dth Sendout**

GAS DATE	Net DTH
2012-01-28	359,378
2012-01-29	389,289
2012-01-30	357,834
2012-01-31	227,269
2012-02-01	250,116
2012-02-02	351,353
2012-02-03	320,806
2012-02-04	339,224
2012-02-05	350,087
2012-02-06	335,963
2012-02-07	349,140
2012-02-08	414,970
2012-02-09	391,672
2012-02-10	360,581
2012-02-11	456,562
2012-02-12	486,195
2012-02-13	372,565
2012-02-14	319,571
2012-02-15	331,078
2012-02-16	310,042
2012-02-17	315,923
2012-02-18	303,765
2012-02-19	343,893
2012-02-20	352,337
2012-02-21	303,356
2012-02-22	237,842
2012-02-23	234,537
2012-02-24	309,138
2012-02-25	375,198
2012-02-26	319,527
2012-02-27	288,019
2012-02-28	292,138
2012-02-29	247,782
2012-03-01	316,126
2012-03-02	238,497
2012-03-03	297,172
2012-03-04	367,853
2012-03-05	425,360
2012-03-06	328,281
2012-03-07	180,020
2012-03-08	231,587
2012-03-09	345,439
2012-03-10	293,392
2012-03-11	208,770

**Columbia Gas of Pennsylvania**  
**Heating Season November 2011 Through March 2012**  
**Daily Dth Sendout**

<b>GAS DATE</b>	<b>Net DTH</b>
2012-03-12	175,935
2012-03-13	140,623
2012-03-14	132,922
2012-03-15	123,941
2012-03-16	123,247
2012-03-17	97,217
2012-03-18	108,361
2012-03-19	116,278
2012-03-20	113,343
2012-03-21	113,928
2012-03-22	112,958
2012-03-23	97,063
2012-03-24	110,082
2012-03-25	142,481
2012-03-26	273,221
2012-03-27	219,939
2012-03-28	141,322
2012-03-29	232,317
2012-03-30	161,794

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-12:

Please provide a copy of the load duration curve used by the Company for capacity planning purposes. Please also identify the numerical data points shown for each day on the curve.

Response:

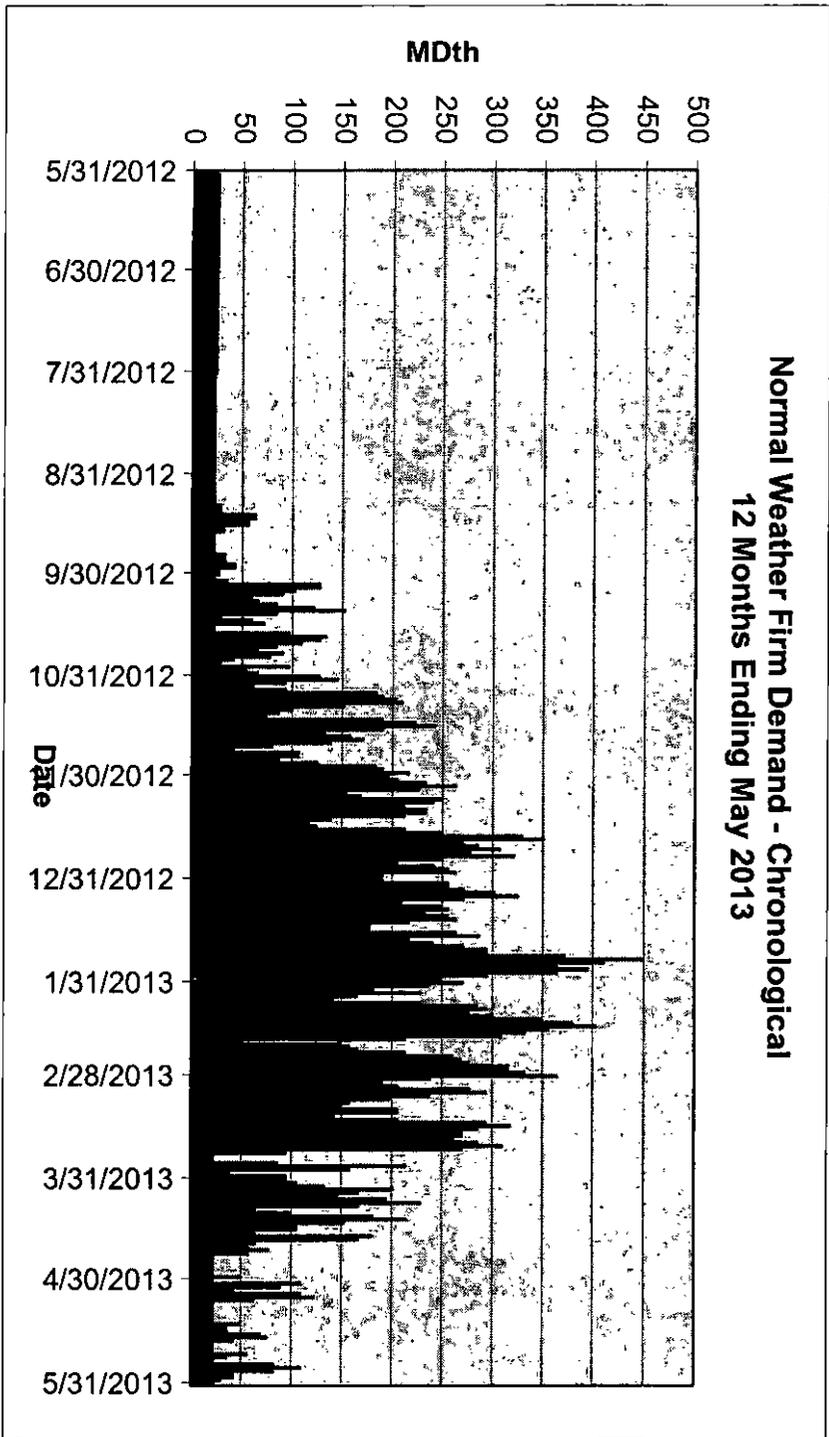
The Company's basic supply and capacity analysis tool is the SENDOUT<sup>®</sup> Gas Planning System provided by Ventyx of Atlanta, Georgia. SENDOUT<sup>®</sup> determines the "optimum", time-dependent levels of pipeline transportation service and storage service to be utilized to meet the Company's prospective demand under various weather-related scenarios and meets that demand with a least cost mix of supplies. SENDOUT<sup>®</sup> recognizes specific demand regions within the Company's service territory and the pipeline capacity and supply sources available to each region. The Company updates supply prices, storage balances, and other input data in SENDOUT<sup>®</sup> on an ongoing basis from a variety of published and private sources. The Company utilizes SENDOUT<sup>®</sup> for both long-range and short term operational planning. The Normal Weather Firm Demands are shown in Attachment COS-12. The attachment shows the Normal Weather Firm Demands as follows:

- Page 1. Chronological order for the 12 months ending May 2013,
- Page 2. Graphically for the 12 months ending May 2013,
- Page 3. Sorted high to low for the 12 months ending May 2013,
- Page 4. Graphically for the 12 months ending May 2013.

Normal Weather Firm Demand - Chronological - 12 Months Ending May 2013

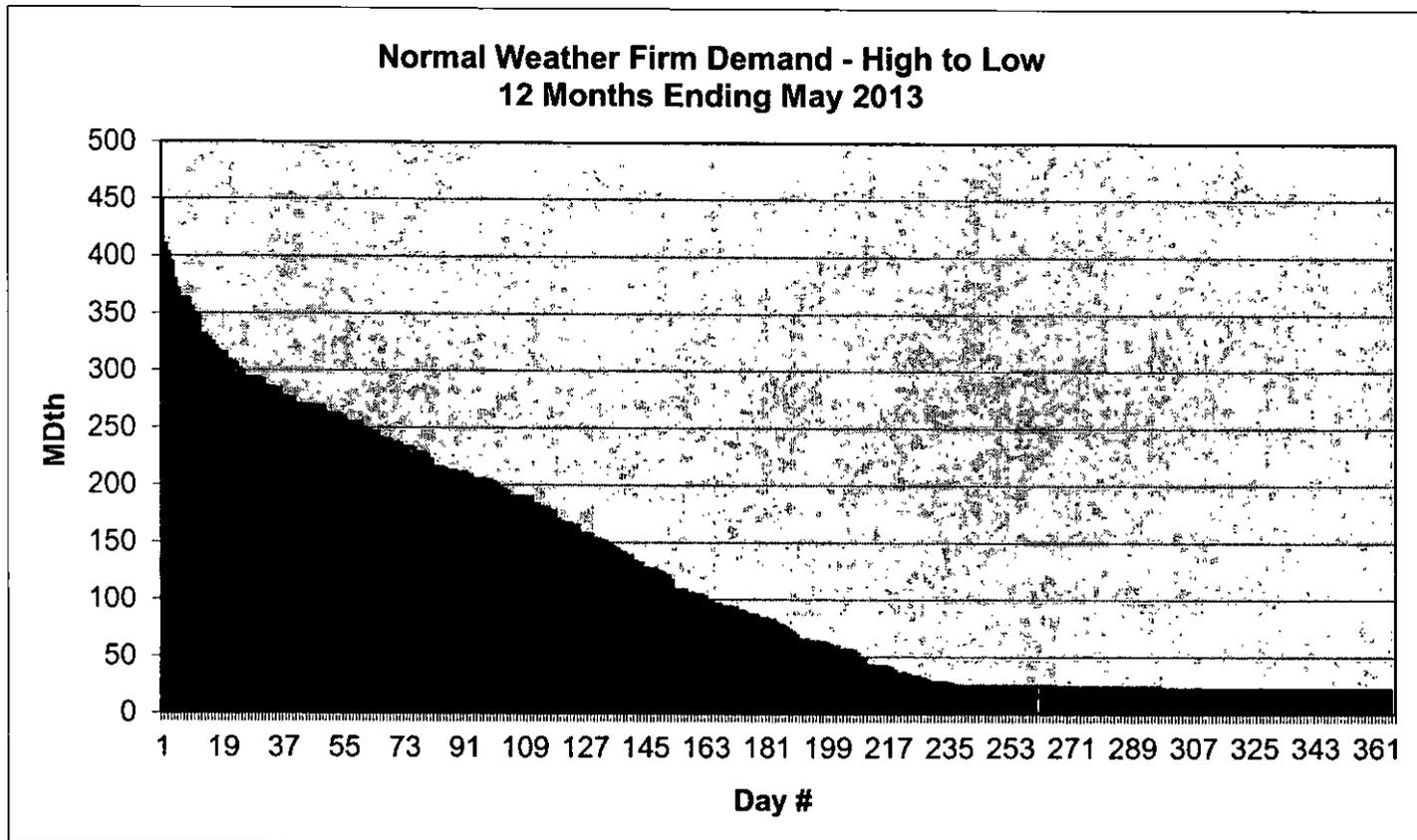
| Firm Demand (MDth) |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1-Jun-12 25.2      | 1-Aug-12 22.2      | 1-Oct-12 22.0      | 1-Dec-12 204.3     | 1-Feb-13 236.5     | 1-Apr-13 104.8     |
| 2-Jun-12 25.2      | 2-Aug-12 22.2      | 2-Oct-12 34.4      | 2-Dec-12 233.5     | 2-Feb-13 181.0     | 2-Apr-13 132.3     |
| 3-Jun-12 25.2      | 3-Aug-12 22.2      | 3-Oct-12 127.3     | 3-Dec-12 262.6     | 3-Feb-13 228.6     | 3-Apr-13 201.1     |
| 4-Jun-12 25.2      | 4-Aug-12 22.2      | 4-Oct-12 127.3     | 4-Dec-12 226.2     | 4-Feb-13 165.1     | 4-Apr-13 166.7     |
| 5-Jun-12 25.2      | 5-Aug-12 22.2      | 5-Oct-12 102.5     | 5-Dec-12 153.3     | 5-Feb-13 141.3     | 5-Apr-13 146.1     |
| 6-Jun-12 25.2      | 6-Aug-12 22.2      | 6-Oct-12 90.1      | 6-Dec-12 167.8     | 6-Feb-13 228.6     | 6-Apr-13 194.2     |
| 7-Jun-12 25.2      | 7-Aug-12 22.2      | 7-Oct-12 59.2      | 7-Dec-12 248.1     | 7-Feb-13 284.1     | 7-Apr-13 228.6     |
| 8-Jun-12 25.2      | 8-Aug-12 22.2      | 8-Oct-12 65.4      | 8-Dec-12 240.8     | 8-Feb-13 292.0     | 8-Apr-13 166.7     |
| 9-Jun-12 25.2      | 9-Aug-12 22.2      | 9-Oct-12 83.9      | 9-Dec-12 211.6     | 9-Feb-13 276.2     | 9-Apr-13 63.6      |
| 10-Jun-12 25.2     | 10-Aug-12 22.2     | 10-Oct-12 121.1    | 10-Dec-12 233.5    | 10-Feb-13 300.0    | 10-Apr-13 97.9     |
| 11-Jun-12 25.2     | 11-Aug-12 22.2     | 11-Oct-12 152.1    | 11-Dec-12 233.5    | 11-Feb-13 347.6    | 11-Apr-13 180.5    |
| 12-Jun-12 25.2     | 12-Aug-12 22.2     | 12-Oct-12 83.9     | 12-Dec-12 211.6    | 12-Feb-13 379.3    | 12-Apr-13 214.9    |
| 13-Jun-12 25.2     | 13-Aug-12 22.2     | 13-Oct-12 28.2     | 13-Dec-12 138.7    | 13-Feb-13 403.1    | 13-Apr-13 153.0    |
| 14-Jun-12 25.2     | 14-Aug-12 22.2     | 14-Oct-12 59.2     | 14-Dec-12 116.8    | 14-Feb-13 355.5    | 14-Apr-13 104.8    |
| 15-Jun-12 25.2     | 15-Aug-12 22.2     | 15-Oct-12 71.6     | 15-Dec-12 124.1    | 15-Feb-13 331.7    | 15-Apr-13 104.8    |
| 16-Jun-12 25.2     | 16-Aug-12 22.2     | 16-Oct-12 22.0     | 16-Dec-12 211.6    | 16-Feb-13 307.9    | 16-Apr-13 63.6     |
| 17-Jun-12 25.2     | 17-Aug-12 22.2     | 17-Oct-12 22.0     | 17-Dec-12 248.1    | 17-Feb-13 212.7    | 17-Apr-13 180.5    |
| 18-Jun-12 25.2     | 18-Aug-12 22.2     | 18-Oct-12 96.3     | 18-Dec-12 328.3    | 18-Feb-13 149.2    | 18-Apr-13 166.7    |
| 19-Jun-12 25.2     | 19-Aug-12 22.2     | 19-Oct-12 133.5    | 19-Dec-12 350.2    | 19-Feb-13 157.2    | 19-Apr-13 63.6     |
| 20-Jun-12 25.2     | 20-Aug-12 22.2     | 20-Oct-12 127.3    | 20-Dec-12 269.9    | 20-Feb-13 165.1    | 20-Apr-13 56.7     |
| 21-Jun-12 25.2     | 21-Aug-12 22.2     | 21-Oct-12 108.7    | 21-Dec-12 284.5    | 21-Feb-13 212.7    | 21-Apr-13 77.3     |
| 22-Jun-12 25.2     | 22-Aug-12 22.2     | 22-Oct-12 83.9     | 22-Dec-12 306.4    | 22-Feb-13 260.3    | 22-Apr-13 56.7     |
| 23-Jun-12 25.2     | 23-Aug-12 22.2     | 23-Oct-12 65.4     | 23-Dec-12 277.2    | 23-Feb-13 268.2    | 23-Apr-13 22.3     |
| 24-Jun-12 25.2     | 24-Aug-12 22.2     | 24-Oct-12 90.1     | 24-Dec-12 321.0    | 24-Feb-13 276.2    | 24-Apr-13 22.3     |
| 25-Jun-12 25.2     | 25-Aug-12 22.2     | 25-Oct-12 77.7     | 25-Dec-12 248.1    | 25-Feb-13 315.8    | 25-Apr-13 22.3     |
| 26-Jun-12 25.2     | 26-Aug-12 22.2     | 26-Oct-12 40.6     | 26-Dec-12 204.3    | 26-Feb-13 315.8    | 26-Apr-13 22.3     |
| 27-Jun-12 25.2     | 27-Aug-12 22.2     | 27-Oct-12 28.2     | 27-Dec-12 240.8    | 27-Feb-13 331.7    | 27-Apr-13 22.3     |
| 28-Jun-12 25.2     | 28-Aug-12 22.2     | 28-Oct-12 96.3     | 28-Dec-12 255.3    | 28-Feb-13 363.5    | 28-Apr-13 22.3     |
| 29-Jun-12 25.2     | 29-Aug-12 22.2     | 29-Oct-12 53.0     | 29-Dec-12 262.6    | 1-Mar-13 237.5     | 29-Apr-13 49.8     |
| 30-Jun-12 25.2     | 30-Aug-12 22.2     | 30-Oct-12 65.4     | 30-Dec-12 189.7    | 2-Mar-13 189.7     | 30-Apr-13 22.3     |
| 1-Jul-12 24.1      | 31-Aug-12 22.2     | 31-Oct-12 127.3    | 31-Dec-12 189.7    | 3-Mar-13 205.6     | 1-May-13 108.9     |
| 2-Jul-12 24.1      | 1-Sep-12 22.0      | 1-Nov-12 144.8     | 1-Jan-13 255.0     | 4-Mar-13 277.4     | 2-May-13 88.9      |
| 3-Jul-12 24.1      | 2-Sep-12 22.0      | 2-Nov-12 93.1      | 2-Jan-13 255.0     | 5-Mar-13 293.3     | 3-May-13 42.3      |
| 4-Jul-12 24.1      | 3-Sep-12 22.0      | 3-Nov-12 60.8      | 3-Jan-13 270.5     | 6-Mar-13 237.5     | 4-May-13 108.9     |
| 5-Jul-12 24.1      | 4-Sep-12 22.0      | 4-Nov-12 93.1      | 4-Jan-13 301.6     | 7-Mar-13 197.7     | 5-May-13 122.3     |
| 6-Jul-12 24.1      | 5-Sep-12 22.0      | 5-Nov-12 183.5     | 5-Jan-13 324.9     | 8-Mar-13 157.8     | 6-May-13 62.3      |
| 7-Jul-12 24.1      | 6-Sep-12 22.0      | 6-Nov-12 190.0     | 6-Jan-13 270.5     | 9-Mar-13 149.8     | 7-May-13 22.3      |
| 8-Jul-12 24.1      | 7-Sep-12 22.0      | 7-Nov-12 202.9     | 7-Jan-13 208.5     | 10-Mar-13 205.6    | 8-May-13 22.3      |
| 9-Jul-12 24.1      | 8-Sep-12 22.0      | 8-Nov-12 209.4     | 8-Jan-13 247.3     | 11-Mar-13 205.6    | 9-May-13 22.3      |
| 10-Jul-12 24.1     | 9-Sep-12 28.1      | 9-Nov-12 151.2     | 9-Jan-13 255.0     | 12-Mar-13 141.9    | 10-May-13 22.3     |
| 11-Jul-12 24.1     | 10-Sep-12 28.1     | 10-Nov-12 99.5     | 10-Jan-13 231.8    | 13-Mar-13 205.6    | 11-May-13 22.3     |
| 12-Jul-12 24.1     | 11-Sep-12 28.1     | 11-Nov-12 86.6     | 11-Jan-13 255.0    | 14-Mar-13 293.3    | 12-May-13 22.3     |
| 13-Jul-12 24.1     | 12-Sep-12 63.0     | 12-Nov-12 73.7     | 12-Jan-13 262.8    | 15-Mar-13 317.3    | 13-May-13 48.9     |
| 14-Jul-12 24.1     | 13-Sep-12 63.0     | 13-Nov-12 190.0    | 13-Jan-13 216.2    | 16-Mar-13 285.4    | 14-May-13 35.6     |
| 15-Jul-12 24.1     | 14-Sep-12 56.2     | 14-Nov-12 222.3    | 14-Jan-13 177.4    | 17-Mar-13 269.4    | 15-May-13 35.6     |
| 16-Jul-12 24.1     | 15-Sep-12 56.2     | 15-Nov-12 241.7    | 15-Jan-13 177.4    | 18-Mar-13 269.4    | 16-May-13 68.9     |
| 17-Jul-12 24.1     | 16-Sep-12 31.1     | 16-Nov-12 190.0    | 16-Jan-13 262.8    | 19-Mar-13 261.4    | 17-May-13 75.6     |
| 18-Jul-12 24.1     | 17-Sep-12 31.1     | 17-Nov-12 131.8    | 17-Jan-13 286.1    | 20-Mar-13 285.4    | 18-May-13 42.3     |
| 19-Jul-12 24.1     | 18-Sep-12 22.0     | 18-Nov-12 157.7    | 18-Jan-13 216.2    | 21-Mar-13 309.3    | 19-May-13 22.3     |
| 20-Jul-12 24.1     | 19-Sep-12 22.0     | 19-Nov-12 170.6    | 19-Jan-13 239.5    | 22-Mar-13 269.4    | 20-May-13 22.3     |
| 21-Jul-12 24.1     | 20-Sep-12 22.0     | 20-Nov-12 138.3    | 20-Jan-13 270.5    | 23-Mar-13 94.0     | 21-May-13 22.3     |
| 22-Jul-12 24.1     | 21-Sep-12 22.0     | 21-Nov-12 80.1     | 21-Jan-13 293.8    | 24-Mar-13 22.3     | 22-May-13 55.6     |
| 23-Jul-12 24.1     | 22-Sep-12 22.0     | 22-Nov-12 41.4     | 22-Jan-13 293.8    | 25-Mar-13 22.3     | 23-May-13 35.6     |
| 24-Jul-12 24.1     | 23-Sep-12 22.0     | 23-Nov-12 106.0    | 23-Jan-13 371.4    | 26-Mar-13 86.1     | 24-May-13 22.3     |
| 25-Jul-12 24.1     | 24-Sep-12 32.6     | 24-Nov-12 106.0    | 24-Jan-13 449.0    | 27-Mar-13 213.6    | 25-May-13 82.3     |
| 26-Jul-12 24.1     | 25-Sep-12 32.6     | 25-Nov-12 86.6     | 25-Jan-13 410.2    | 28-Mar-13 157.8    | 26-May-13 108.9    |
| 27-Jul-12 24.1     | 26-Sep-12 32.6     | 26-Nov-12 125.4    | 26-Jan-13 363.6    | 29-Mar-13 38.2     | 27-May-13 82.3     |
| 28-Jul-12 24.1     | 27-Sep-12 42.5     | 27-Nov-12 183.5    | 27-Jan-13 394.7    | 30-Mar-13 94.0     | 28-May-13 42.3     |
| 29-Jul-12 24.1     | 28-Sep-12 42.5     | 28-Nov-12 190.0    | 28-Jan-13 363.6    | 31-Mar-13 94.0     | 29-May-13 42.3     |
| 30-Jul-12 24.1     | 29-Sep-12 26.6     | 29-Nov-12 215.8    | 29-Jan-13 293.8    |                    | 30-May-13 29.0     |
| 31-Jul-12 24.1     | 30-Sep-12 26.6     | 30-Nov-12 196.4    | 30-Jan-13 247.3    |                    | 31-May-13 22.3     |
|                    |                    |                    | 31-Jan-13 270.5    |                    |                    |

**Normal Weather Firm Demand - Chronological  
12 Months Ending May 2013**



Normal Weather Firm Demand - High to Low - 12 Months Ending May 2013

Day #	Firm Demand (MDth)										
1	449.0	62	248.1	123	166.7	184	80.1	245	25.2	306	22.3
2	410.2	63	248.1	124	165.1	185	77.7	246	25.2	307	22.3
3	403.1	64	247.3	125	165.1	186	77.3	247	25.2	308	22.3
4	394.7	65	247.3	126	157.8	187	75.6	248	25.2	309	22.3
5	379.3	66	241.7	127	157.8	188	73.7	249	25.2	310	22.3
6	371.4	67	240.8	128	157.7	189	71.6	250	25.2	311	22.3
7	363.6	68	240.8	129	157.2	190	68.9	251	25.2	312	22.3
8	363.6	69	239.5	130	153.3	191	65.4	252	25.2	313	22.3
9	363.5	70	237.5	131	153.0	192	65.4	253	25.2	314	22.3
10	355.5	71	237.5	132	152.1	193	65.4	254	25.2	315	22.3
11	350.2	72	236.5	133	151.2	194	63.6	255	25.2	316	22.3
12	347.6	73	233.5	134	149.8	195	63.6	256	25.2	317	22.3
13	331.7	74	233.5	135	149.2	196	63.6	257	25.2	318	22.2
14	331.7	75	233.5	136	146.1	197	63.0	258	25.2	319	22.2
15	328.3	76	231.8	137	144.8	198	63.0	259	25.2	320	22.2
16	324.9	77	228.6	138	141.9	199	62.3	260	25.2	321	22.2
17	321.0	78	228.6	139	141.3	200	60.8	261	25.2	322	22.2
18	317.3	79	228.6	140	138.7	201	59.2	262	25.2	323	22.2
19	315.8	80	226.2	141	138.3	202	59.2	263	25.2	324	22.2
20	315.8	81	222.3	142	133.5	203	56.7	264	25.2	325	22.2
21	309.3	82	216.2	143	132.3	204	56.7	265	25.2	326	22.2
22	307.9	83	216.2	144	131.8	205	56.2	266	25.2	327	22.2
23	306.4	84	215.8	145	127.3	206	56.2	267	24.1	328	22.2
24	301.6	85	214.9	146	127.3	207	55.6	268	24.1	329	22.2
25	300.0	86	213.6	147	127.3	208	53.0	269	24.1	330	22.2
26	293.8	87	212.7	148	127.3	209	49.8	270	24.1	331	22.2
27	293.8	88	212.7	149	125.4	210	48.9	271	24.1	332	22.2
28	293.8	89	211.6	150	124.1	211	42.5	272	24.1	333	22.2
29	293.3	90	211.6	151	122.3	212	42.5	273	24.1	334	22.2
30	293.3	91	211.6	152	121.1	213	42.3	274	24.1	335	22.2
31	292.0	92	209.4	153	116.8	214	42.3	275	24.1	336	22.2
32	286.1	93	208.5	154	108.9	215	42.3	276	24.1	337	22.2
33	285.4	94	205.6	155	108.9	216	42.3	277	24.1	338	22.2
34	285.4	95	205.6	156	108.9	217	41.4	278	24.1	339	22.2
35	284.5	96	205.6	157	108.7	218	40.6	279	24.1	340	22.2
36	284.1	97	205.6	158	106.0	219	38.2	280	24.1	341	22.2
37	277.4	98	204.3	159	106.0	220	35.6	281	24.1	342	22.2
38	277.2	99	204.3	160	104.8	221	35.6	282	24.1	343	22.2
39	276.2	100	202.9	161	104.8	222	35.6	283	24.1	344	22.2
40	276.2	101	201.1	162	104.8	223	34.4	284	24.1	345	22.2
41	270.5	102	197.7	163	102.5	224	32.6	285	24.1	346	22.2
42	270.5	103	196.4	164	99.5	225	32.6	286	24.1	347	22.2
43	270.5	104	194.2	165	97.9	226	32.6	287	24.1	348	22.2
44	270.5	105	190.0	166	96.3	227	31.1	288	24.1	349	22.0
45	269.9	106	190.0	167	96.3	228	31.1	289	24.1	350	22.0
46	269.4	107	190.0	168	94.0	229	29.0	290	24.1	351	22.0
47	269.4	108	190.0	169	94.0	230	28.2	291	24.1	352	22.0
48	269.4	109	189.7	170	94.0	231	28.2	292	24.1	353	22.0
49	268.2	110	189.7	171	93.1	232	28.1	293	24.1	354	22.0
50	262.8	111	189.7	172	93.1	233	28.1	294	24.1	355	22.0
51	262.8	112	183.5	173	90.1	234	28.1	295	24.1	356	22.0
52	262.6	113	183.5	174	90.1	235	26.6	296	24.1	357	22.0
53	262.6	114	181.0	175	88.9	236	26.6	297	24.1	358	22.0
54	261.4	115	180.5	176	86.6	237	25.2	298	22.3	359	22.0
55	260.3	116	180.5	177	86.6	238	25.2	299	22.3	360	22.0
56	255.3	117	177.4	178	86.1	239	25.2	300	22.3	361	22.0
57	255.0	118	177.4	179	83.9	240	25.2	301	22.3	362	22.0
58	255.0	119	170.6	180	83.9	241	25.2	302	22.3	363	22.0
59	255.0	120	167.8	181	83.9	242	25.2	303	22.3	364	22.0
60	255.0	121	166.7	182	82.3	243	25.2	304	22.3	365	22.0
61	248.1	122	166.7	183	82.3	244	25.2	305	22.3		



Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-13:

Please provide the following for the Company's ten largest transportation customers during peak month of the most recent heating season:

- a. actual consumption
- b. volume delivered to the Company on their behalf, if applicable
- c. daily nomination

Response:

Please see GAS-COS No. 13 Attachment A.

			Daily Nominations for 1/12 in Mcf																
Usage 1/12 Nominations 1/12			01/01/12	01/02/12	01/03/12	01/04/12	01/05/12	01/06/12	01/07/12	01/08/12	01/09/12	01/10/12	01/11/12	01/12/12	01/13/12	01/14/12	01/15/12	01/16/12	
Customer	(Mcf)	(Mcf)	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	
A	267,485	266,960	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60
B	98,983	100,859	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50
C	73,132	77,382	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20
D	68,447	66,327	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70
E	60,997	55,831	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00
F	60,037	**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	56,757	56,867	1,833.60	1,833.60	1,833.60	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50
H	51,116	*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	50,093	**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	40,441	48,540	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	2,236.80	2,236.80	2,236.80	2,236.80	2,236.80	2,236.80	2,236.80	1,989.20	1,989.20	1,989.20	1,989.20
			01/17/12	01/18/12	01/19/12	01/20/12	01/21/12	01/22/12	01/23/12	01/24/12	01/25/12	01/26/12	01/27/12	01/28/12	01/29/12	01/30/12	01/31/12		
Customer	(Mcf)	(Mcf)	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	Day 24	Day 25	Day 26	Day 27	Day 28	Day 29	Day 30	Day 31		
A			8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60	8,611.60		
B			3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50	3,253.50		
C			2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20	2,496.20		
D			2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,139.70	2,135.90		
E			1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00	1,801.00		
F			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
G			1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50	1,834.50		
H			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
I			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
J			1,989.20	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30	1,246.30		

Note: Nominations have been converted to Mcf  
 \* Customer account within Aggregation Group  
 \*\* Multiple customer accounts within Stand Alone Nomination Group

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-14:

Please provide a summary identifying the salient features of each of the following. Salient features include contract party, effective term and applicable contract quantities (daily, annual, seasonal, etc.).

- a. All firm transportation agreements by type greater than one month in length. Indicate whether the capacity is available at the Company's citygate to meet design day requirements or is upstream capacity. Identify the downstream pipeline for each upstream arrangement.
- b. All firm storage, gathering and exchange agreements. Indicate if each agreement provides design day capacity at the citygate or requires separate transportation (identify) service to effectuate delivery. Include on-system storage and peak shaving facilities used by the Company and identify all ratcheting provisions applicable to the Company's contractual and on-system storage arrangements.

Response:

Please see GAS-COS-14 Attachment A for the requested information.

**FIRM CITY GATE TRANSPORTATION AGREEMENTS**

TRANSPORTER	CONTRACT NUMBER	RATE SCHEDULE	EFFECTIVE DATE	PRIMARY TERMINATION DATE		CONTRACT QUANTITY		REC POINT DTH/D	CITY GATE DELIVERY POINT	DEL POINT QUANTITY DTH/D
						DTH/D	RECEIPT POINT			
COLUMBIA GAS	80136	FTS	11/01/12	10/31/14		90,788	A05 DELMONT AGG	8,641	CPA CITY GATE	90,788
							A06 MCCLELL AGG	21,596		
				LEACH		39,496				
				B15 UNIONVILLE		12,283				
				C16 DELMONT		8,772				
			11/01/14	10/31/19		60,551	LEACH	39,496	CPA CITY GATE	60,551
							B15 UNIONVILLE	12,283		
			11/01/19	10/31/22		21,055	B15 UNIONVILLE	12,283	CPA CITY GATE	21,055
							C16 DELMONT	8,772		
COLUMBIA GAS	50675	FTS	11/01/97	10/31/16		18,334	DELMONT-TETCO	5,000	CPA CITY GATE	18,334
COLUMBIA GAS	56741	FTS	11/01/98	10/31/13		13,332	BROADRUN	13,334	CPA CITY GATE	13,332
COLUMBIA GAS	56742	FTS	11/01/99	10/31/14		13,334	GRANT STATION	10,000	CPA CITY GATE	13,334
							BROADRUN	3,332		
COLUMBIA GAS	80264	FTS	11/01/04	10/31/19		1,800	LEACH	1,800	CPA CITY GATE	1,800
COLUMBIA GAS	82610	SST	04/01/05	03/31/20	OCT-MAR APR-SEPT	456,876	STORAGE O-M	456,876	CPA CITY GATE	456,876
						228,438	STORAGE A-S	228,438		
DOMINION TRANSMISSION	700034	FTNN-GSS	06/01/05	03/31/18(1)	NOV-MAR	6,000	GSS STORAGE	6,000	CPA @ WARRENDALE	4,200
									CPA @ DARLINGTON	6,000
DOMINION TRANSMISSION	200539	FT	11/01/09	10/31/19(1)	NOV-MAR APR-OCT	3,000	OAKFORD	3,000	CPA @ WARRENDALE	3,000
						2,000				
EQUITRANS	EQTR10375-391	FTS	09/24/10	03/31/12(1)	NOV-MAR APR-OCT	19,130	STORAGE	19,130	CPA @ GROVETON	19,130
						10,000	RHINEHART	10,000		
NATIONAL FUEL (3)	F02091	FT	11/01/98	10/31/04(2)		4,304	TRANSCO LEIDY	4,304	CPA @ WARREN	4,304
TENNESSEE GAS	30920	FT-A	11/01/00	10/31/14		16,000	500 LINE	7,600	CPA @ NEW CASTLE	16,000
							800 LINE	8,400		
TENNESSEE GAS	63409(5)	FT-A	11/01/07	10/31/12		7,600	500 LINE	7,600	CPA @ PITT TERMINAL	7,600
TENNESSEE GAS	63409	FT-A	11/01/12	10/31/17		7,600	ZONE 4 POOL	7,600	CPA @ PITT TERMINAL	7,600
TEXAS EASTERN	800387R2	CDS	11/01/06	10/31/08(1)		2,342	VENICE	941	CPA @ ROCKWOOD	287
							ST LANDRY	1,401	CPA @ ST COLLEGE	2,342
									CPA @ EMIGSVILLE	2,342
									CPA @ CHAMBERSBURG	219
									CPA @ EAGLE	2,342
TEXAS EASTERN	910464R1	CDS	11/01/06	10/31/12(1)		5,000	MRPL	5,000	CPA @ ROCKWOOD	2,758
									CPA @ CHAMBERSBURG	2,242
TEXAS EASTERN	910463R1	CDS	11/01/06	10/31/12(1)		158	MRPL	158	CPA @ CHAMBERSBURG	158
TEXAS EASTERN	910951R1	FT-1	11/01/12	10/31/17(1)		11,753	WLA, ELA, STX	11,753	CPA @ UNIONTOWN (6)	11,753
TEXAS EASTERN (4)	830049R1	FT	12/01/98	03/31/02(1)	DEC-MAR	10,000	COL GAS @ EAGLE	10,000	CPA @ ST COLLEGE	1,658
									CPA @ ROCKWOOD	8,242
									CPA @ CHAMBERSBURG	100

(1) YEAR TO YEAR THEREAFTER  
 (2) MONTH TO MONTH THEREAFTER  
 (3) NET CITY GATE DELIVERY IS 4,244 DTH/D  
 (4) REROUTING OF VOLUMES, DOES NOT CONTRIBUTE TO PEAK DAY  
 (5) SUPERSEDED BY AMENDMENT EFFECTIVE 11/1/12  
 (6) PRIMARY DELIVERY POINT IS DELMONT BUT WILL BE USED FOR DELIVERY TO UNIONTOWN

COLUMBIA GAS OF PENNSYLVANIA, INC.

**FIRM UPSTREAM TRANSPORTATION AGREEMENTS**

TRANSPORTER	CONTRACT NUMBER	RATE SCHEDULE	EFFECTIVE DATE	PRIMARY TERMINATION DATE	CONTRACT QUANTITY DTH/D	RECEIPT POINT	REC POINT QUANTITY DTH/D	DELIVERY POINT INTO DOWNSTREAM PIPELINE	DEL POINT QUANTITY DTH/D
COLUMBIA GULF	79919	FTS-1	11/01/04	10/31/19	43,632	RAYNE	43,632	COL GAS @ LEACH	43,632
TENNESSEE GAS	63408(2)	FT-A	11/01/07	10/31/12	12,500	500 LINE	12,500	COL GAS @ UNIONVILLE	12,500
TENNESSEE GAS	63408	FT-A	11/01/12	10/31/14	12,500	ZONE 4 POOL	12,500	COL GAS @ UNIONVILLE	12,500
TEXAS EASTERN	910951R1	FT-1	11/01/12	10/31/17(1)	3,082	WLA, ELA, STX	3,082	COL GAS @ DELMONT	3,082

(1) YEAR TO YEAR THEREAFTER  
(2) SUPERSEDED BY AMENDMENT EFFECTIVE 11/1/12

**STORAGE**

COUNTERPARTY	CONTRACT NUMBER	RATE SCHEDULE	EFFECTIVE DATE	PRIMARY TERMINATION DATE	CONTRACT QUANTITY DTH/D	
COLUMBIA GAS	82512	FSS	04/01/05	03/31/20	MDQ 456,876 SCQ 25,341,126	REQUIRES COLUMBIA GAS SST FOR DELIVERY TO THE CITY GATE
DOMINION TRANSMISSION	600037	GSS	06/01/05	03/31/18(1)	MDQ 9,000 SCQ 941,176	REQUIRES DTI FTNN-GSS AND FT FOR DELIVERY TO THE CITY GATE
EQUITRANS	EQTR10379-390	115SS	09/24/10	03/31/12(1)	INJ 10,000 WTH 19,130 ANN 2,000,000	REQUIRES EQUITRANS FTS FOR DELIVERY TO THE CITY GATE
BLACKHAWK					MDQ 10,000 SCQ 30,000	ON SYSTEM STORAGE

(1) YEAR TO YEAR THEREAFTER

**EXCHANGES**

COUNTERPARTY	EFFECTIVE DATE	PRIMARY TERMINATION DATE	CONTRACT QUANTITY DTH/D
PEOPLES NATURAL	10/08/93	10/07/03(1)	NOT SPEC CITY GATE EXCHANGE
NATIONAL FUEL DIST	12/02/74	(2)	NOT SPEC CITY GATE EXCHANGE

(1) YEAR TO YEAR THEREAFTER  
(2) AND THEREAFTER UNTIL TERMINATED

**STORAGE RATCHET PROVISIONS**

COLUMBIA FSS	SCQ LEVEL	MDQ	EQUITRANS 115SS	SCQ LEVEL	MDQ
	100% TO 30%	100 % OF MDQ		100% TO 35%	100 % OF MDQ
	<30% TO 20%	80% OF MDQ		<35% TO 16%	92% OF MDQ
	<20% TO 10%	65% OF MDQ		<16% TO 10%	70% OF MDQ
	<10% TO 0%	50% OF MDQ		<10% TO 0%	63% OF MDQ
DTI GSS	SCQ LEVEL	MDQ	BLACKHAWK	RATCHETS DO NOT APPLY	
	100% TO 35%	100 % OF MDQ			
	<35% TO 16%	92% OF MDQ			
	<16% TO 10%	70% OF MDQ			
	<10% TO 0%	63% OF MDQ			

LIMITED ON A MONTHLY BASIS TO 87.5% OF THE TOTAL MONTHLY WITHDRAWAL CAPABILITY.

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-015:

For the most recent annual period available, please identify the applicable monthly volumes and revenues under each rate schedule which were:

- a. Sold under a negotiated or market-based rate
- b. Transported under a negotiated or market based rate
- c. Transported at full margin transportation rates

Response:

- a. Please see the attached spreadsheet (GAS-COS-015 Attachment A) showing actual billed (invoiced) quantities and revenue sold under a negotiated or market-based rate for the 12 Months Ended May 31, 2012.
- b. Please see the attached spreadsheet (GAS-COS-015 Attachment B) showing actual billed (invoiced) quantities and revenue transported under a negotiated or market based rate for the 12 Months Ended May 31, 2012.
- c. Please see the attached spreadsheet (GAS-COS-015 Attachment C) showing actual billed (invoiced) quantities and revenue transported at full margin transportation rates for the 12 Months Ended May 31, 2012.

**Columbia Gas of Pennsylvania, Inc.**  
**Actual Billed Quantities and Revenues Billed - Sold Under a Negotiated or Market Based Rate**  
**For the 12 Months Ending May 31, 2012**

		Quantities											
		June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH
NSS	COM	6,716.9	5,440.1	8,187.2	11,421.9	16,503.2	20,368.3	26,755.8	27,286.6	22,771.0	13,363.0	9,658.0	8,052.0
NSS	IND	910.3	736.4	1,673.0	631.1	1,202.1	2,848.7	650.0	1,526.8	1,009.0	224.0	1,945.0	110.0

		Revenues											
		June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
NSS	COM	52,595.49	41,776.93	56,153.39	78,024.58	105,345.19	131,501.53	165,384.30	154,593.38	118,403.52	68,032.00	47,963.07	39,149.10
NSS	IND	6,356.65	5,206.85	11,198.09	4,162.76	7,614.31	17,762.55	3,857.77	8,169.07	5,188.18	1,237.65	8,868.27	632.13

**Columbia Gas of Pennsylvania, Inc.**  
**Actual Billed Quantities and Revenues Billed - Transported Under a Negotiated or Market Based Rate**  
**For the 12 Months Ending May 31, 2012**

		Quantities											
		June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH
LDS FLEX	COM	23,160.0	18,076.0	20,017.0	17,226.0	17,989.0	20,238.0	20,255.0	0.0	0.0	0.0	0.0	4,869.0
LDS FLEX	IND	648,141.0	588,660.0	647,218.0	675,438.0	643,800.0	664,533.0	711,317.0	667,082.0	697,075.0	653,317.0	645,376.0	631,545.0
MLDS I FLEX	IND	282,156.0	268,931.0	287,011.0	286,647.0	245,555.0	247,958.0	220,244.0	219,828.0	204,303.0	239,108.0	249,927.0	269,332.0
MLDS II FLEX	IND	116,249.0	123,473.0	160,564.0	171,255.0	163,418.0	161,234.0	150,270.0	142,666.0	139,313.0	143,759.0	146,047.0	141,705.0
SDS FLEX	COM	15,232.0	19,074.0	24,283.0	27,062.0	17,771.0	14,859.0	11,039.0	7,709.0	5,616.0	5,957.0	7,201.0	9,671.0
SDS FLEX	IND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SGDS FLEX	COM	836.0	1,538.0	2,077.0	2,144.0	1,479.0	826.0	470.0	479.0	(232.0)	39.0	149.0	364.0
SGDS FLEX	IND	153.0	202.0	300.0	249.0	169.0	125.0	99.0	53.0	33.0	33.0	60.0	77.0

		Revenues											
		June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
LDS FLEX	COM	0.00	0.00	0.00	0.00	4,182.86	12,194.48	9,967.62	10,817.85	9,594.99	9,929.18	10,914.24	10,921.69
LDS FLEX	IND	271,417.20	268,462.37	273,247.27	269,657.39	271,217.65	297,834.38	253,954.96	278,276.93	292,995.04	299,659.33	292,705.69	294,713.97
MLDS I FLEX	IND	20,762.07	19,295.84	29,905.02	30,926.88	32,297.30	33,486.52	32,460.69	34,150.75	34,123.49	30,281.39	30,506.07	27,914.81
MLDS II FLEX	IND	30,395.70	29,549.85	43,049.40	43,687.75	43,508.80	38,502.09	41,735.39	48,989.20	50,710.89	61,076.52	60,904.59	58,142.22
SDS FLEX	COM	26,941.51	5,916.76	6,195.47	7,100.71	6,605.52	11,885.90	14,212.92	17,902.55	17,827.70	13,472.35	11,763.93	9,369.34
SDS FLEX	IND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SGDS FLEX	COM	12,920.05	11,393.32	1,138.78	1,340.31	1,889.16	3,512.68	4,819.40	6,421.57	7,401.45	4,893.44	3,222.69	2,463.52
SGDS FLEX	IND	54.70	44.82	44.82	58.34	66.37	106.45	129.85	177.69	152.76	113.99	92.67	80.07

**Columbia Gas of Pennsylvania, Inc.**  
**Actual Billed Quantities and Revenues Billed - Transported at Full Margin Transportation Rates**  
**For the 12 Months Ending May 31, 2012**

		Quantities											
		June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH	DTH
LDS	COM	115,658.0	122,403.0	171,677.0	141,230.0	169,273.0	210,713.0	279,499.0	307,224.0	318,363.0	241,998.0	279,492.0	233,562.0
LDS	IND	539,867.0	486,166.0	509,269.0	547,478.0	601,701.0	650,834.0	648,878.0	655,091.0	708,259.0	615,425.0	574,310.0	536,420.0
MLDS I	COM	4,832.0	4,031.0	3,939.0	5,200.0	6,137.0	9,762.0	10,435.0	13,711.0	13,001.0	8,415.0	6,736.0	5,522.0
MLDS I	IND	32,049.0	56,924.0	24,205.0	16,725.0	7,738.0	5,448.0	5,548.0	4,102.0	7,488.0	4,057.0	19,632.0	15,688.0
MLDS II	IND	24,675.0	24,268.0	22,967.0	24,900.0	27,305.0	24,505.0	27,005.0	26,141.0	23,100.0	20,447.0	22,215.0	21,084.0
RDGDS	RES	77.9	62.8	63.2	116.0	61.7	303.9	329.4	431.5	385.3	304.0	173.8	106.7
RDS	RES	162,702.4	124,024.6	110,797.7	114,868.0	211,726.9	535,791.5	810,576.1	1,236,305.4	1,183,105.4	1,022,441.9	514,649.2	389,421.0
CAP <sup>1</sup>	RES	n/a	47,456.6	35,375.8	41,442.5	78,863.9	209,585.8	306,937.7	449,421.9	415,179.0	357,158.3	187,257.8	143,399.5
SCD	COM	26,551.2	21,940.0	26,553.9	22,579.1	42,353.4	100,566.8	154,919.9	254,327.8	249,091.3	219,982.8	103,798.7	79,211.4
SDS	COM	120,158.0	104,090.0	109,067.0	123,080.0	191,355.0	313,766.0	414,193.0	560,718.0	545,898.0	400,033.0	282,472.0	213,737.0
SDS	IND	169,429.0	151,722.0	164,116.0	159,059.0	184,438.0	221,357.0	193,343.0	218,494.0	229,977.0	178,514.0	165,765.0	160,509.0
SGDS OTHER	COM	83,538.0	57,028.0	60,234.0	68,237.0	99,187.0	207,814.0	326,982.0	458,844.0	425,842.0	352,355.0	191,290.0	148,055.0
SGDS OTHER	IND	4,489.0	4,754.0	4,204.0	5,347.0	5,742.0	7,779.0	9,454.0	7,531.0	7,323.0	5,607.0	4,096.0	4,104.0
SGDS P1	COM	20,363.0	17,026.0	15,480.0	16,882.0	24,334.0	44,764.0	64,540.0	84,850.0	79,598.0	65,190.0	43,558.0	31,669.0
SGDS P1	IND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.0	74.0	132.0	58.0	31.0

**Columbia Gas of Pennsylvania, Inc.**  
**Actual Billed Quantities and Revenues Billed - Transported at Full Margin Transportation Rates**  
**For the 12 Months Ending May 31, 2012**

		Revenues											
		June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
LDS	COM	129,771.54	132,363.80	166,316.61	148,740.92	167,842.11	208,572.42	265,395.12	288,507.47	296,238.43	233,187.47	255,976.39	219,475.88
LDS	IND	516,963.71	469,927.51	502,299.86	518,167.39	563,461.94	607,064.97	604,071.78	617,662.55	661,762.74	580,273.38	545,851.90	517,219.12
MLDS I	COM	460.08	383.75	1,524.02	1,644.08	1,722.62	2,061.53	2,124.42	2,428.90	2,361.85	1,933.55	1,776.76	1,663.38
MLDS I	IND	1,872.40	2,022.95	6,799.49	6,087.26	5,235.71	5,078.57	5,087.89	1,999.69	2,315.78	1,995.36	3,449.94	3,081.59
MLDS II	IND	11,235.53	11,050.37	12,507.94	13,387.71	14,256.93	13,005.39	14,123.09	15,771.52	14,411.27	13,226.49	11,968.43	11,463.35
RDGDS	RES	100.85	127.66	117.48	137.51	167.01	363.20	491.72	627.87	583.56	407.79	251.95	234.67
RDS	RES	1,435,182.13	1,321,232.71	1,269,476.20	1,289,332.82	1,649,898.42	3,191,681.92	4,256,928.52	5,773,610.52	5,514,887.20	4,927,000.55	3,047,371.10	2,614,400.33
CAP <sup>1</sup>	RES	n/a	231,542.35	236,535.21	228,594.73	340,829.12	921,432.10	1,184,669.34	1,568,888.24	1,465,789.85	1,300,200.60	829,815.85	709,486.72
SCD	COM	183,412.34	162,231.73	163,250.58	166,107.86	217,526.24	432,852.15	587,409.87	828,168.29	813,765.14	742,164.38	442,826.67	382,167.46
SDS	COM	208,981.17	193,437.58	198,984.17	214,867.76	286,430.50	460,260.61	583,382.95	754,700.98	737,339.26	562,271.76	424,100.57	342,441.95
SDS	IND	192,650.99	172,493.87	185,110.47	180,555.96	207,050.66	265,112.34	230,046.73	261,784.57	274,649.96	225,489.98	215,926.57	213,216.86
SGDS OTHER	COM	191,532.24	143,343.20	152,926.98	169,355.99	226,746.33	460,149.92	708,296.25	970,161.62	903,080.54	753,115.87	433,660.50	344,355.84
SGDS OTHER	IND	9,270.08	9,777.88	9,075.40	11,284.08	11,875.30	16,900.91	20,520.41	16,434.17	15,993.23	12,452.49	9,336.15	9,384.03
SGDS P1	COM	45,824.62	39,437.61	37,524.00	40,215.90	54,103.15	99,766.83	142,056.42	184,040.58	173,164.44	143,462.88	98,815.46	74,058.70
SGDS P1	IND	0.00	0.00	0.00	0.00	18.05	18.85	20.18	332.69	172.85	292.53	139.84	84.12

<sup>1</sup> CAP was not served by an NGS until July 2011.

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-16:

Please provide the following for each curtailment during the last three years:

- a. Dates of curtailment
- b. Type of curtailment (firm service, interruptible service, both)
- c. Whether curtailment was related to amount of capacity on the Company's system, other capacity or supply related
- d. Rate schedule that curtailed volumes would have been billed under
- e. Curtailed volumes by rate schedule
- f. Actual volumes moved by rate schedule

Response:

As described in the Gas Emergency Rules section of the Company's tariff, curtailment of Company provided services would occur in the event of an "emergency". As further defined in the Company's tariff, an emergency is a situation wherein the aggregate demand of firm service customers on the Company's system, or confined segment of the system, exceeds or threatens to exceed the gas supply or capacity that is actually and lawfully available to the Company, and the actual or threatened excess in demand creates an immediate threat to the Company's system operating integrity with respect to Priority 1 customers. During the last three years the Company has not experienced an emergency situation prompting the curtailment of any of its services or customers.

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-17:

Please identify the Company's design day planning criteria and the probability of design day occurrence. Include any available documentation supporting the Company's claimed probability of occurrence.

Response:

Columbia's design day planning criteria are based on Design Current Day Temperature, Design Prior Day Temperature, Design Current Day Wind Speed, and assume occurrence on a weekday.

The aforementioned design day weather conditions are premised upon all available historical weather data ending with the winter of 2007/08. COS-17 Attachment A shows the Design Temperatures, Design Wind Speed, the historical temperature period considered and the weights of the National Weather Service locations used to arrive at the Design Weather Conditions for each of Columbia's market areas. The weather stations used for this determination are those located at Hagerstown, Maryland, Morgantown, West Virginia, and Harrisburg, Pittsburgh, and Bradford, Pennsylvania. These weather stations are used because of their proximity to Columbia's customers. The following paragraphs provide detail on the development of COS-17 Attachment A.

Columbia's Design Current Day Temperature is that temperature having a 1 in 15 probability or a 6.7 percent risk level. That is, the probability is 1 in 15, or 6.7 percent that any given winter will have one or more days with an average daily temperature equal to or colder than the Design Temperature. Columbia uses the Gumbel, or double exponential, distribution to calculate the probabilities. This skewed distribution is selected because the distribution of historical coldest temperatures is skewed.

Columbia has developed temperature probability distributions for eight Pipeline Scheduling Points (PSP) in Pennsylvania. These PSPs correspond to geographically defined markets in Columbia Gas Transmission's (TCO) FERC-

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

approved Tariff. The development of a Design PSP Temperature is a two-step process. First, for each weather station within the PSP, all available history is used to develop an associated design temperature. Next, the design temperatures for each weather station are weighted based on the firm demand associated with each weather station. The weighted temperatures are then summed to arrive at the PSP design average temperature. Columbia's system wide Design Current Day Temperature is minus 5 degrees Fahrenheit. The same method is used to develop design prior day temperature and design current day wind speed by PSP and for Columbia in total.

COS-17 Attachment B is the supporting probability of occurrence analyses for the weather station Design Temperatures. For each analysis, the heating season's days are ranked coldest to warmest. Shown are the twenty coldest days of each season. The coldest day of each season, denoted by "Rank 1" on the "20 Coldest" Report, is used in the Gumbel Analysis. Provided for each analysis are the Gumbel Curve parameters and probabilities considered.

The condition of Design Prior Day Temperature results from the mean temperature difference between historical "cold days" and their associated prior days. A "Cold Day" is defined as a day as cold as or colder than the Design Current Day Temperature, plus 5 degrees Fahrenheit. Using the Pittsburgh, Pennsylvania Design Current Day Temperature of minus 7 degrees Fahrenheit as an example, a "Cold Day" would be any day having an average temperature of minus 2 degrees Fahrenheit or colder. The average difference, prior day temperature less current day temperature, is added to the Design Current Day Temperature to provide Design Prior Day Temperature. The Pittsburgh, Pennsylvania average difference is 12 degrees Fahrenheit, so the Design Prior Day Temperature is  $-7 + 12 = 5$  degrees Fahrenheit. To obtain the total company Design Prior Day Temperature, weather station weighting is then applied to each weather station's Design Prior Day Temperature and summed for a total company design. Columbia's system wide Design Prior Day Temperature is 6 degrees Fahrenheit.

Consistent with the Prior Day Design Temperature methodology, the approach to use an average of "Cold Days" is used to establish Design Wind Speed. However, because Wind Speed data has only been available since 1991/92, a "Cold Day" is

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

defined as Design Current Day Temperature plus 15 degrees Fahrenheit. Again, the design is developed at the weather station level, and then weighted for the total company design. Columbia's system wide Design Wind speed is 11 mph.

1-IN-15 DESIGN  
Peak Day Design Conditions

PSP	Pipeline Area	Historical Period	Design Temperatures: Degrees F		Wind Speed	Station	
			Current Day	Prior Day		Location	Weight
25E-25	Lancaster	1925-2008	1	9	13	Harrisburg, PA	95.3481
						Hagerstown, MD	4.6519
						<b>Total</b>	<b>100.0000</b>
25-26	Bedford	1949-2008	-7	5	8	Morgantown, WV	100.0000
25E-29	Downingtown	1925-2008	1	9	13	Harrisburg, PA	100.0000
25-35	Pittsburgh	1949-2008	-7	5	10	Pittsburgh, PA	82.9855
						Morgantown, WV	17.0145
						<b>Total</b>	<b>100.0000</b>
25-36	Olean	1941-2008	-15	-2	11	Pittsburgh, PA	2.8259
						Bradford, PA	97.1741
						<b>Total</b>	<b>100.0000</b>
25-38	Rimersburg	1941-2008	-11	2	11	Pittsburgh, PA	50.1558
						Bradford, PA	49.8442
						<b>Total</b>	<b>100.0000</b>
25-39	New Castle	1925-2008	-7	5	11	Pittsburgh, PA	100.0000
25-40	PA/WV Misc.	1949-2008	-7	5	8	Pittsburgh, PA	3.4720
						Morgantown, WV	96.5280
						<b>Total</b>	<b>100.0000</b>
<b>CPA Total</b>		1949-2008	-5	6	11	Harrisburg	24.6195
						Pittsburgh	52.1039
						Hagerstown	1.2012
						Bradford	6.1968
						Morgantown	15.8787
						<b>Total</b>	<b>100.0000</b>

Weather station weights based on actual firm customer demand from December 2008 through February 2009.

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 06-HARRISBURG, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1925	151	13	15	15	17	19	19	20	20	21	21	21	22	23	23	23	23	24	24	24	24
1926	151	14	14	14	18	18	19	19	19	20	20	21	21	22	24	24	25	25	25	26	26
1927	152	14	16	17	17	18	19	19	20	21	22	22	22	23	23	23	24	24	25	26	26
1928	151	13	17	18	22	22	23	23	23	24	24	24	24	24	25	25	25	25	25	25	26
1929	151	13	14	15	18	18	19	19	20	20	20	21	21	21	21	22	23	24	24	24	24
1930	151	18	19	20	21	21	21	23	23	23	24	24	24	25	26	27	27	27	27	27	28
1931	152	17	20	21	22	22	25	26	26	26	26	27	29	29	30	30	30	31	31	31	31
1932	151	14	15	15	16	18	18	19	22	22	23	23	23	23	25	25	25	26	26	26	26
1933	151	1	7	10	10	11	11	11	14	18	18	18	17	17	18	18	18	19	19	19	19
1934	151	9	11	11	12	13	13	13	14	15	19	19	19	21	22	22	23	23	23	24	24
1935	152	2	7	8	10	11	11	12	12	12	14	14	14	14	14	16	17	17	18	18	18
1936	151	20	23	24	24	24	25	26	26	26	26	27	27	27	28	29	29	29	29	29	30
1937	151	13	17	20	20	20	22	22	22	22	22	23	23	23	24	24	25	25	26	26	26
1938	151	12	18	18	19	21	21	21	21	22	24	24	24	25	25	25	25	25	25	25	26
1939	152	10	10	14	14	16	16	17	19	19	19	20	20	20	20	20	20	21	21	21	21
1940	151	20	21	21	22	22	23	23	24	24	24	24	25	25	26	26	26	26	26	27	27
1941	151	7	9	10	11	11	15	17	19	20	20	21	23	23	24	25	25	26	26	26	26
1942	151	8	9	13	14	15	19	19	19	20	22	22	23	23	23	23	23	24	24	24	24
1943	152	16	19	19	20	20	20	20	20	22	23	23	23	24	24	24	24	24	24	25	25
1944	151	11	13	14	15	15	17	18	18	20	20	21	21	21	21	22	22	22	22	22	22
1945	151	15	16	17	17	18	19	20	20	21	21	21	22	22	22	22	23	23	23	23	23
1946	151	8	15	17	18	18	21	22	22	22	22	23	23	24	24	25	25	26	26	26	26
1947	152	11	11	12	13	13	13	13	14	14	15	15	15	15	17	18	19	19	20	21	21
1948	151	15	19	20	22	22	23	26	26	26	27	27	28	28	29	29	29	29	29	29	30
1949	151	18	19	19	20	21	22	24	24	25	25	25	26	26	27	27	27	27	27	28	28
1950	151	13	14	14	14	16	19	19	20	20	21	22	22	23	23	23	23	23	24	24	24
1951	152	11	12	18	19	20	21	23	23	23	24	25	25	25	26	27	27	27	28	28	28
1952	151	22	25	25	26	28	28	28	29	29	29	29	29	29	29	30	30	30	30	31	31
1953	151	16	18	18	19	19	19	20	21	21	21	23	24	24	25	25	25	26	26	27	28
1954	151	10	14	14	17	18	19	19	19	20	20	21	21	23	24	24	25	25	26	26	26
1955	152	16	17	19	21	22	22	23	23	23	24	24	24	24	25	26	26	26	26	26	26
1956	151	7	10	11	16	19	21	22	22	23	23	24	25	25	26	26	26	27	27	27	28
1957	151	7	12	13	13	16	16	16	17	17	19	20	22	23	23	23	23	23	24	24	24
1958	151	14	14	15	15	16	16	16	17	18	18	19	20	20	21	21	21	21	21	22	22
1959	152	17	18	20	21	21	22	22	22	22	23	23	24	25	26	26	26	26	26	26	26
1960	151	5	6	7	9	10	10	10	10	11	11	12	13	13	15	15	16	16	17	18	18

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 06-HARRISBURG, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1926 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1961	151	10	14	14	15	16	16	17	18	19	19	19	20	20	21	21	22	22	23	23	23
1962	151	5	9	10	11	12	14	14	14	18	17	17	17	18	18	18	18	19	19	20	20
1963	152	9	11	14	14	15	17	17	18	18	18	19	19	19	19	20	21	21	22	22	22
1964	151	7	8	15	15	15	16	17	18	19	19	21	21	21	21	21	22	22	24	24	24
1965	151	6	7	12	14	16	18	18	18	19	20	20	20	21	21	23	23	23	23	23	24
1966	151	10	12	13	14	16	17	18	19	20	20	21	21	22	22	23	23	24	24	24	24
1967	152	6	8	10	10	11	11	13	14	15	16	18	18	18	18	19	19	20	20	20	21
1968	151	17	17	18	18	19	20	20	20	22	22	22	23	23	24	24	25	25	25	25	25
1969	151	5	7	11	12	13	13	14	14	15	15	16	18	18	18	19	19	19	19	21	22
1970	151	11	12	16	16	17	17	18	18	19	20	20	22	22	23	24	24	25	25	25	25
1971	152	13	18	20	20	21	22	22	23	24	24	25	25	25	27	27	27	27	27	28	28
1972	151	13	17	19	20	21	23	23	23	24	24	24	24	25	25	26	26	26	27	27	27
1973	151	20	21	22	23	23	24	24	24	24	24	25	25	25	26	27	27	27	27	28	28
1974	151	14	16	22	23	23	24	25	25	25	26	26	26	27	27	27	27	27	28	28	28
1975	152	14	15	17	19	19	21	21	22	22	22	23	23	23	24	25	25	25	25	26	26
1976	151	4	8	8	11	13	14	14	14	15	16	16	17	17	18	19	19	20	20	20	20
1977	151	13	14	15	15	17	18	18	18	18	19	19	19	19	19	19	20	20	20	20	20
1978	151	2	8	8	8	9	10	11	15	16	16	17	18	18	19	19	19	20	20	20	20
1979	152	15	18	19	20	20	21	22	22	22	22	22	23	23	24	24	25	25	25	25	26
1980	151	7	8	8	9	10	12	12	13	15	16	16	16	16	17	17	17	17	18	19	19
1981	151	0	6	7	11	12	17	17	18	18	18	18	18	19	19	19	21	21	21	22	23
1982	151	19	21	22	22	22	22	22	23	25	25	25	26	27	27	27	28	29	29	30	30
1983	152	2	5	6	8	10	10	13	14	15	15	16	17	17	18	18	19	19	19	19	21
1984	151	0	7	18	18	20	20	20	21	21	22	22	22	23	24	24	25	25	26	26	26
1985	151	12	13	15	18	19	19	19	19	20	20	21	21	21	22	22	22	22	22	22	23
1986	151	13	15	16	17	17	19	20	21	24	25	26	26	26	27	27	27	27	28	28	28
1987	152	12	13	13	14	14	14	14	15	15	16	17	18	18	19	20	20	20	21	21	22
1988	151	13	17	17	18	18	18	20	21	21	22	22	23	24	24	24	25	25	27	27	27
1989	151	11	12	12	14	14	15	16	16	17	17	17	18	19	19	21	21	21	23	23	25
1990	151	17	21	21	21	22	23	24	25	25	26	26	27	27	28	28	28	28	28	29	29
1991	152	14	17	22	22	22	23	23	23	24	24	24	24	25	25	26	26	27	27	27	27
1992	151	13	17	19	19	19	20	20	21	21	21	21	23	23	24	25	26	26	26	26	26
1993	151	-6	-2	0	5	6	9	12	14	15	15	16	17	17	17	17	18	18	18	19	19
1994	151	13	15	16	18	18	19	19	23	23	24	24	25	25	25	26	26	26	27	27	27
1995	152	9	10	14	15	15	15	16	16	17	17	17	18	19	19	19	19	20	20	21	21
1996	151	11	12	13	19	20	21	21	22	23	24	24	25	25	26	26	26	27	28	28	28

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 06-HARRISBURG, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1997	151	22	26	26	26	28	28	29	30	30	31	31	31	32	32	32	32	32	32	33	33
1998	151	15	17	18	21	21	21	21	21	21	21	22	23	23	23	25	25	25	26	26	26
1999	152	14	16	16	16	17	20	20	20	20	22	22	23	23	23	25	25	25	26	26	26
2000	151	17	19	19	19	19	20	21	21	21	21	21	22	23	23	23	23	23	24	25	25
2001	151	22	23	24	25	26	26	27	27	27	27	27	27	28	28	29	29	29	30	30	30
2002	151	13	13	14	14	16	18	19	19	20	20	20	21	21	21	21	21	22	22	22	22
2003	152	9	12	14	16	16	16	16	16	17	18	19	19	20	20	20	21	21	21	22	22
2004	151	12	14	16	16	16	17	18	18	20	22	22	22	22	24	24	25	25	25	26	26
2005	151	14	17	20	21	23	25	26	26	26	27	27	27	27	27	28	28	28	28	28	29
2006	151	11	13	16	16	18	18	19	19	19	21	21	21	22	23	23	24	24	24	25	25
2007	152	16	19	20	20	22	23	23	24	25	25	26	27	27	27	27	28	28	28	28	29

Gumbel Analysis

Table 2

May 27, 2008

Weather Station 06-HARRISBURG, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 Temperature with the Indicated Probability of Occurrence for each period, per the Gumbel Distribution  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Rank	Gumbel Curve parameters and probabilities		↓					
	Alpha	Gamma	1/5.0	1/7.0	1/10.0	1/15.0	1/20.0	1/25.0
①	14.12593	0.2106439	6.9	5.2	3.4	1.4	0.0	-1.1
2	15.79971	0.1464982	9.7	8.2	6.8	5.1	4.0	3.1
3	17.01137	0.1292602	11.7	10.5	9.3	7.9	7.0	6.2
4	17.90658	0.1180965	13.1	12.0	10.9	9.6	8.8	8.1
5	18.62162	0.1068132	14.0	13.0	11.9	10.7	9.9	9.3
6	19.53854	0.1002437	15.2	14.1	13.1	12.0	11.2	10.7
7	20.09049	0.0929133	15.8	14.8	13.8	12.7	11.9	11.4
8	20.61504	0.0898764	16.5	15.5	14.8	13.5	12.8	12.3
9	21.18557	0.0903157	17.4	16.5	15.6	14.8	14.0	13.5
10	21.71197	0.0867211	18.0	17.1	16.2	15.3	14.7	14.2

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 14-PITTSBURGH, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1925	151	4	8	13	14	14	14	14	16	16	17	17	18	18	19	19	19	20	21	21	21	21
1926	151	10	11	13	17	18	19	19	20	21	21	21	22	22	22	23	23	23	24	25	25	25
1927	152	7	8	12	12	12	13	14	14	15	17	17	17	18	18	19	20	20	21	23	23	23
1928	151	13	15	16	17	17	17	18	19	20	20	20	21	22	22	23	23	23	23	23	23	24
1929	151	8	8	8	11	13	15	16	16	16	17	17	17	18	18	18	18	19	19	20	21	21
1930	151	13	13	16	17	19	19	19	21	22	22	23	23	23	24	24	24	24	24	25	25	25
1931	152	9	12	14	17	18	18	18	18	22	22	25	26	26	28	29	29	29	30	30	30	30
1932	151	3	7	14	14	15	16	16	18	18	19	20	20	21	21	23	24	24	24	24	24	25
1933	151	-1	4	5	5	5	6	9	9	10	12	14	14	15	15	15	17	17	17	18	18	18
1934	151	9	13	15	15	17	17	18	20	21	21	21	21	22	22	23	23	23	24	24	25	25
1935	152	-9	-2	-2	1	2	4	5	6	7	8	9	9	9	10	10	10	11	11	11	11	11
1936	151	16	18	18	20	20	20	21	21	21	22	23	23	23	24	24	24	24	25	25	26	26
1937	151	9	13	13	14	15	15	16	16	16	17	17	17	17	18	19	20	20	23	23	23	23
1938	151	14	14	15	15	15	16	18	18	19	21	21	21	21	22	22	23	24	24	24	24	24
1939	152	-3	5	7	8	10	11	11	11	11	12	13	13	13	14	15	16	16	17	17	17	17
1940	151	11	12	12	13	14	15	15	19	19	19	19	19	20	20	20	20	20	20	22	22	22
1941	151	-1	5	7	9	10	10	11	12	12	13	13	17	18	19	21	21	22	22	23	23	23
1942	151	2	5	8	8	10	11	11	12	12	14	15	16	17	17	17	18	19	19	19	19	19
1943	152	10	11	14	15	15	15	16	16	16	16	17	17	19	19	20	20	20	21	21	22	22
1944	151	6	9	9	11	13	13	14	16	17	17	17	17	18	18	19	19	19	19	20	20	20
1945	151	9	10	11	13	13	14	14	17	17	18	19	20	20	20	20	20	21	21	21	22	22
1946	151	3	4	9	10	15	16	17	17	17	18	19	19	19	21	21	21	21	21	21	21	22
1947	152	5	7	9	9	10	10	11	11	12	12	13	13	13	15	16	16	17	19	20	21	21
1948	151	14	16	18	20	20	22	23	24	24	24	24	25	25	25	26	26	26	26	27	27	27
1949	151	13	13	15	16	17	19	20	21	21	22	22	22	25	26	26	26	26	26	26	26	27
1950	151	6	8	11	12	13	14	14	14	15	16	17	18	18	18	19	20	20	21	21	21	21
1951	152	1	13	13	13	19	19	20	20	21	22	23	23	24	24	25	25	26	26	26	26	26
1952	151	18	19	21	22	22	23	23	23	24	24	25	25	25	25	25	25	25	25	26	26	26
1953	151	12	13	13	15	17	17	18	20	21	21	21	21	21	22	22	22	22	22	23	23	23
1954	151	6	7	7	8	9	10	13	13	15	17	17	17	19	19	20	20	21	21	22	22	22
1955	152	14	15	16	17	18	18	18	19	19	19	20	21	21	21	21	22	22	22	22	22	23
1956	151	3	8	12	12	14	15	17	18	18	18	19	21	21	22	23	23	23	23	23	23	24
1957	151	-1	7	7	8	9	9	11	12	13	14	15	16	16	17	17	17	18	18	20	20	20
1958	151	0	3	6	6	9	9	10	10	10	10	10	10	11	13	14	14	15	16	16	16	17
1959	152	13	14	14	14	15	16	16	16	16	16	17	18	18	18	18	18	18	18	19	19	20
1960	151	0	2	5	5	5	5	7	7	8	8	10	10	11	12	12	14	17	17	17	17	17

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 14-PITTSBURGH, PA. Using Temperature Variable MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1961	151	3	8	8	9	9	10	12	13	13	14	14	16	16	17	17	18	18	19	19	20
1962	151	-9	0	0	2	3	3	4	5	5	5	6	7	7	8	9	10	12	13	13	13
1963	152	4	6	8	9	11	11	12	12	13	13	14	15	15	16	18	18	18	19	19	20
1964	151	5	9	10	10	11	11	12	12	12	13	14	14	15	16	17	17	17	18	18	19
1965	151	-1	0	6	10	12	12	13	14	15	15	16	16	17	18	19	19	19	19	19	20
1966	151	8	9	9	11	11	12	13	13	14	14	15	15	20	21	21	21	22	22	22	22
1967	152	1	3	4	6	6	6	11	11	12	12	12	13	14	14	14	15	15	16	17	17
1968	151	7	8	9	11	12	12	13	15	15	16	16	16	16	16	17	17	17	18	18	18
1969	151	-2	1	4	4	5	8	8	9	12	12	12	13	14	14	15	15	16	16	16	17
1970	151	0	2	3	5	9	11	11	11	12	13	13	14	14	17	17	17	18	18	18	18
1971	152	-1	6	7	10	10	11	12	12	14	14	16	17	18	19	19	19	20	20	20	21
1972	151	5	12	14	14	15	15	15	15	16	16	16	16	17	17	19	21	21	22	22	22
1973	151	15	16	16	16	18	18	19	19	20	20	20	20	21	21	21	22	22	23	23	23
1974	151	11	12	15	17	18	21	21	21	22	22	22	22	23	23	24	24	25	25	25	26
1975	152	3	5	9	9	13	14	14	16	16	16	17	17	18	18	20	20	21	21	21	22
1976	151	-9	-1	0	1	2	3	4	5	6	6	6	6	7	7	7	7	8	8	9	9
1977	151	6	8	10	11	12	12	13	13	13	13	14	14	14	15	15	15	15	15	16	16
1978	151	0	0	2	2	3	3	4	5	6	6	7	7	8	12	13	13	13	13	14	15
1979	152	8	8	9	11	12	13	13	13	15	16	16	16	16	16	17	17	17	17	17	19
1980	151	-1	3	6	5	5	6	6	6	9	9	10	10	10	11	11	11	13	14	15	15
1981	151	-10	-4	-1	6	8	9	9	10	10	10	12	14	14	15	16	16	17	18	18	18
1982	151	14	15	17	19	19	19	21	21	21	22	23	23	23	23	24	24	25	25	26	26
1983	152	-5	-4	1	3	3	5	8	9	9	11	12	12	13	14	16	16	16	17	17	17
1984	151	-8	-5	10	11	11	12	13	13	14	14	14	15	15	16	16	17	17	18	18	19
1985	151	6	10	11	12	12	13	13	13	14	15	15	15	16	16	16	16	18	18	18	19
1986	151	5	11	13	16	16	18	19	20	20	21	21	22	23	24	24	25	26	27	27	28
1987	152	4	5	5	9	11	12	13	14	15	16	17	17	17	17	18	18	19	19	20	20
1988	151	13	13	15	15	16	16	17	17	18	19	20	20	20	20	21	21	21	22	22	23
1989	151	-1	0	3	3	7	9	9	10	10	11	11	15	16	17	18	20	20	20	20	21
1990	151	13	14	15	15	15	17	18	18	19	21	22	23	23	24	24	25	26	27	27	28
1991	152	8	10	14	18	18	19	19	19	19	21	21	21	22	22	22	22	23	23	23	23
1992	151	8	11	13	13	15	17	17	19	20	20	22	22	23	23	23	24	24	24	24	25
1993	151	-12	-4	-1	1	1	5	11	12	13	13	13	14	14	15	16	16	16	16	16	17
1994	151	4	6	6	9	12	12	13	13	18	19	20	20	21	21	22	22	22	22	23	23
1995	152	1	5	8	10	10	11	11	12	13	13	14	15	16	15	16	16	16	16	16	18
1996	151	3	4	9	10	10	12	13	15	19	19	20	20	21	21	22	22	25	25	25	25

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 14-PITTSBURGH, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1997	151	18	19	20	22	23	24	24	25	26	27	27	27	28	28	28	28	28	28	28	29	29
1998	151	4	11	12	14	15	15	18	17	17	17	18	18	19	19	19	20	21	21	21	22	22
1999	152	9	10	12	13	15	16	17	18	18	18	19	20	20	21	21	22	24	24	24	24	24
2000	151	10	11	12	12	15	15	16	17	18	18	18	18	19	19	19	20	20	20	20	21	21
2001	151	15	15	17	17	19	20	21	21	21	21	22	22	22	23	24	25	25	26	26	26	26
2002	151	7	8	9	11	12	14	14	15	16	16	16	16	17	18	18	18	18	18	18	18	18
2003	152	7	8	9	10	10	11	14	14	15	15	16	17	17	18	18	18	19	19	20	22	22
2004	151	7	8	9	10	11	12	14	15	15	17	18	18	18	19	19	20	21	21	21	21	22
2005	151	12	16	16	16	17	18	19	20	20	20	21	21	23	23	23	23	23	23	23	24	24
2006	151	2	4	7	9	10	11	12	13	13	14	16	16	16	17	17	18	18	19	19	20	20
2007	152	10	10	15	15	16	16	17	17	18	19	20	21	21	21	21	23	23	23	23	23	23

Gumbel Analysis

Table 2

May 27, 2008

Weather Station 14-PITTSBURGH, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 Temperature with the Indicated Probability of Occurrence for each period, per the Gumbel Distribution  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Rank	Gumbel Curve parameters and probabilities							
	Alpha	Gamma	1/5.0	1/7.0	1/10.0	1/15.0	1/20.0	1/25.0
1	8.41767	0.1706713	-0.5	-2.6	-4.8	-7.3	-9.0	-10.4
2	9.96551	0.1384696	3.5	1.9	0.4	-1.4	-2.5	-3.5
3	11.52852	0.1213768	5.9	4.6	3.3	1.8	0.8	0.0
4	12.58399	0.1055687	7.3	6.0	4.7	3.3	2.4	1.7
5	13.61259	0.0965709	8.6	7.4	6.2	4.8	4.0	3.3
6	14.33205	0.0887802	9.4	8.2	7.1	5.8	5.0	4.3
7	15.15813	0.0872389	10.8	9.5	8.4	7.2	6.5	5.9
8	15.81326	0.0806405	11.3	10.2	9.1	7.9	7.2	6.5
9	16.54230	0.0768619	12.1	11.0	10.0	8.8	8.1	7.5
10	17.08294	0.0731035	12.7	11.6	10.6	9.4	8.7	8.1

Table 1

Weather Station 44-HAGERSTOWN, MD Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1925	151	11	17	17	19	20	20	20	21	21	21	21	21	22	22	22	23	23	24	25	25
1926	151	14	14	17	19	20	20	20	20	22	23	24	24	24	25	25	25	26	26	26	26
1927	152	13	16	15	15	17	17	18	18	20	20	21	22	23	23	23	24	24	25	25	26
1928	151	17	18	19	20	21	21	21	21	22	23	23	23	24	24	25	25	25	25	25	25
1929	151	10	10	14	14	15	18	19	19	19	20	20	20	21	22	22	23	24	24	24	24
1930	151	17	18	21	21	21	21	22	22	22	22	23	23	23	24	25	26	26	26	26	26
1931	152	18	20	22	22	22	26	26	26	27	27	28	30	30	30	30	31	31	33	33	33
1932	151	14	16	17	18	18	20	22	24	24	24	24	25	26	27	27	27	28	28	29	29
1933	151	4	5	12	12	14	15	16	16	16	17	18	18	19	19	20	20	21	21	21	21
1934	151	4	11	11	11	15	17	17	18	18	19	20	20	21	24	25	25	26	26	26	26
1935	152	6	6	7	10	10	12	12	13	13	13	13	15	16	16	16	17	18	18	18	18
1936	151	21	24	24	25	25	25	26	26	27	27	27	28	28	28	29	29	29	30	30	30
1937	151	20	20	20	20	21	22	23	23	23	23	23	24	24	24	24	24	24	25	25	25
1938	151	17	19	20	20	20	20	23	23	23	23	24	24	25	26	26	26	27	27	27	27
1939	152	7	11	12	15	16	16	17	17	17	18	19	20	20	20	20	20	21	21	21	21
1940	151	20	21	21	22	22	23	23	23	24	24	24	25	26	26	26	26	26	26	26	26
1941	151	5	10	12	13	15	16	16	18	21	22	23	24	25	25	26	26	27	28	28	28
1942	151	7	9	12	17	17	21	21	21	21	22	22	22	23	24	24	24	24	25	26	27
1943	152	13	18	19	20	22	22	22	23	23	23	23	23	24	24	24	25	25	26	26	26
1944	151	13	13	15	16	16	17	18	18	18	19	19	19	19	19	20	21	21	21	21	22
1945	151	13	13	13	17	17	18	18	18	20	20	20	20	21	21	22	22	22	22	22	22
1946	151	8	14	16	17	20	20	21	21	21	21	22	22	23	23	24	24	24	24	24	25
1947	152	6	8	8	10	10	12	12	12	14	15	15	16	17	17	18	20	20	21	21	22
1948	151	17	19	20	21	21	22	24	25	25	25	26	27	27	27	27	28	28	28	29	29
1949	151	19	20	21	22	24	24	25	25	25	26	26	26	26	26	26	26	27	27	28	28
1950	151	10	12	14	15	15	16	17	17	18	19	19	21	21	21	22	22	23	24	24	24
1951	152	8	10	15	16	18	18	22	23	23	23	24	24	24	25	26	26	26	26	26	26
1952	151	23	23	24	25	25	25	26	26	27	27	28	28	28	29	29	29	29	30	30	30
1953	151	15	16	17	17	18	19	19	19	20	21	22	22	24	25	26	26	26	26	26	26
1954	151	11	11	12	16	16	17	19	19	20	20	21	22	22	22	23	23	24	24	25	25
1955	152	17	18	18	18	20	20	20	21	21	21	22	23	23	24	24	24	24	24	25	25
1956	151	6	7	10	18	18	21	21	22	22	23	23	23	24	24	26	27	27	28	28	28
1957	151	4	10	12	12	15	16	17	18	18	18	20	20	22	22	22	22	23	23	23	23
1958	151	10	12	14	14	16	16	16	17	17	18	18	19	19	20	20	21	21	22	22	22
1959	152	15	16	16	16	19	19	20	20	21	21	22	22	22	23	23	23	24	24	24	24
1960	151	3	3	3	8	8	8	8	9	10	11	11	12	12	13	14	14	15	15	15	17

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 44-HAGERSTOWN, MD Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1961	151	11	13	14	15	16	16	17	17	18	18	19	21	22	22	22	23	23	23	23	24
1962	151	6	7	8	9	11	13	13	13	14	16	16	18	18	18	18	18	19	19	19	19
1963	152	9	13	14	14	15	15	17	17	18	18	19	19	20	20	20	20	20	21	21	21
1964	151	7	10	12	13	14	15	16	16	17	18	20	20	20	20	21	22	22	23	23	23
1965	151	3	10	10	15	16	16	18	19	19	20	21	22	22	22	23	24	24	24	25	25
1966	151	10	13	14	15	15	17	19	19	19	20	21	22	22	23	23	23	23	23	24	24
1967	152	2	2	6	8	9	9	11	12	13	15	16	16	17	19	19	19	20	20	20	21
1968	151	15	16	18	17	19	20	21	21	21	21	21	22	22	22	22	23	23	23	23	24
1969	151	4	5	9	11	13	13	14	14	14	15	17	18	18	18	19	19	20	21	21	21
1970	151	9	10	11	11	12	13	15	15	16	16	17	18	19	19	20	20	20	21	21	21
1971	152	6	15	18	18	20	20	21	21	22	23	24	24	24	24	24	25	25	26	26	26
1972	151	15	17	19	20	20	21	21	21	21	22	23	23	23	24	24	26	26	26	27	27
1973	151	17	24	24	24	24	25	25	25	26	26	27	27	27	27	28	28	28	29	29	29
1974	151	11	17	20	23	25	25	26	27	27	27	27	28	28	28	28	29	29	29	29	29
1975	152	14	16	17	18	20	20	21	21	21	22	23	23	23	24	25	25	25	26	26	26
1976	151	4	11	11	12	13	14	15	15	16	17	17	18	18	18	19	19	19	19	19	20
1977	151	12	15	15	15	15	16	16	16	16	18	19	19	19	19	20	20	20	20	20	21
1978	151	3	8	9	10	11	14	16	16	16	16	17	18	18	18	19	19	19	20	20	20
1979	152	12	13	17	19	20	20	21	22	23	23	23	24	24	24	25	25	25	26	26	27
1980	151	6	7	7	9	12	12	13	13	13	13	14	14	14	15	16	18	18	20	20	20
1981	151	-6	2	4	8	10	13	14	15	15	15	16	17	18	19	19	20	22	22	22	23
1982	151	15	15	17	17	19	20	23	23	23	23	23	23	24	24	25	25	26	26	26	26
1983	152	-3	6	6	7	7	11	12	13	15	16	16	16	16	17	17	18	18	18	19	19
1984	151	0	3	13	17	17	18	19	19	19	20	21	21	22	22	22	23	23	23	23	24
1985	151	11	12	13	14	14	18	18	19	19	19	20	20	20	21	21	21	22	23	23	23
1986	151	9	10	10	12	19	19	20	22	23	23	23	25	25	26	26	27	27	27	27	27
1987	152	10	12	14	14	15	16	16	17	18	19	19	19	19	20	21	22	23	23	24	24
1988	151	12	13	18	20	21	22	22	22	22	22	23	23	24	24	24	24	24	24	26	27
1989	151	7	12	12	12	13	13	13	13	15	16	17	17	18	19	20	21	21	22	22	22
1990	151	17	17	20	21	21	23	23	25	25	25	25	26	27	28	28	28	29	30	30	30
1991	152	14	18	21	23	23	24	24	24	25	25	25	25	25	26	26	26	26	26	27	27
1992	151	15	18	18	19	20	20	21	21	21	21	23	23	23	24	25	25	25	25	26	26
1993	151	-5	2	3	5	6	9	16	16	17	18	18	18	18	19	19	19	19	19	20	22
1994	151	11	14	15	15	18	19	20	22	22	25	25	25	25	26	26	26	27	27	27	27
1995	152	8	9	14	14	15	17	17	18	19	19	20	20	21	21	21	21	21	22	22	23
1996	151	12	12	13	17	19	19	20	21	24	26	26	26	27	27	28	28	28	28	29	29

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Weather Station 44-HAGERSTOWN, MD Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1997	151	21	25	25	26	29	29	30	30	30	31	31	32	32	32	32	33	33	33	33	33	33
1998	151	17	17	20	20	21	22	23	23	23	24	24	24	25	25	25	25	26	26	26	26	27
1999	152	17	17	18	18	21	23	23	23	24	24	25	25	25	25	27	28	28	28	28	28	28
2000	151	15	18	18	18	18	18	19	19	21	21	22	22	22	23	23	23	23	23	23	23	24
2001	151	21	22	22	23	24	25	26	26	27	27	27	27	28	28	28	28	29	29	29	30	30
2002	151	10	11	12	13	14	14	18	18	18	19	19	20	20	21	21	21	21	22	22	22	22
2003	152	10	10	13	14	14	15	16	16	17	18	18	18	20	20	20	20	20	20	21	21	22
2004	151	13	14	14	16	16	17	17	17	19	20	20	22	22	22	23	24	24	24	24	25	25
2005	151	16	18	19	21	23	23	24	24	25	25	26	27	27	27	27	27	27	27	28	28	28
2006	151	9	12	14	17	17	18	18	19	20	20	21	21	21	21	21	22	22	22	23	23	23
2007	152	16	17	18	20	21	21	21	21	22	22	23	25	26	27	27	27	27	28	28	29	30

Gumbel Analysis

Table 2

May 27, 2008

Weather Station 44-HAGERSTOWN, MD Using Temperature Variable MID\_MID\_AVG\_TMP  
 Temperature with the Indicated Probability of Occurrence for each period, per the Gumbel Distribution  
 Overall Range Beginning Years: 1925 to 2007; Period Range: 11-01 to 03-31

Rank	Gumbel Curve parameters and probabilities							
	Alpha	Gamma	1/5.0	1/7.0	1/10.0	1/15.0	1/20.0	1/25.0
1	13.61455	0.1888092	5.5	3.7	1.7	-0.6	-2.1	-3.4
2	15.11480	0.1382872	8.6	7.1	5.5	3.8	2.6	1.7
3	16.27164	0.1233032	10.8	9.5	8.1	6.7	5.7	4.9
4	17.36019	0.1137113	12.4	11.2	10.1	8.8	7.9	7.2
5	18.36212	0.1026603	13.6	12.5	11.3	10.1	9.3	8.6
6	19.18770	0.1005861	14.8	13.8	12.8	11.6	10.9	10.3
7	19.98103	0.0953807	15.8	14.8	13.8	12.7	12.1	11.5
8	20.35825	0.0888337	16.2	15.2	14.3	13.2	12.5	11.9
9	20.89058	0.0875578	17.0	16.1	15.1	14.1	13.5	12.9
10	21.40447	0.0839897	17.8	16.7	15.8	14.8	14.1	13.6

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 37-BRADFORD, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1941 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1941	151	-8	0	0	2	5	5	6	9	9	9	11	12	13	14	15	15	17	17	17	18
1942	151	-13	-4	1	1	5	6	6	7	9	9	11	11	11	12	13	13	14	15	15	15
1943	152	-1	2	5	6	8	9	9	9	10	10	10	12	13	13	14	14	15	15	16	17
1944	151	-10	-3	0	1	3	4	8	8	8	8	9	9	9	11	12	12	13	13	13	14
1945	151	4	5	6	6	7	8	8	9	9	10	11	11	12	12	13	14	15	15	15	16
1946	151	2	6	6	9	10	10	13	13	13	14	14	14	15	15	15	15	17	17	17	18
1947	152	-5	-3	-2	-2	1	1	1	2	5	5	6	6	7	8	9	10	10	11	12	13
1948	151	2	11	11	15	16	17	18	19	19	19	20	20	20	20	21	22	22	22	22	22
1949	151	5	7	7	8	8	8	11	13	13	14	15	15	16	17	17	18	18	19	19	19
1950	151	-1	1	3	3	6	9	10	11	11	11	11	12	13	13	14	16	16	17	17	18
1951	152	3	4	4	7	8	9	10	12	12	12	13	13	13	14	15	15	16	16	17	17
1952	151	7	11	13	14	15	17	19	19	19	20	20	20	20	20	20	20	20	21	21	21
1953	151	4	4	6	9	10	10	11	12	12	12	12	13	14	14	15	16	16	17	18	18
1954	151	-2	-1	0	0	3	4	5	7	8	8	8	10	12	13	14	14	14	14	14	15
1955	152	2	9	9	10	10	11	11	13	13	13	13	13	13	13	14	14	14	15	15	15
1956	151	-7	-5	-3	-1	5	9	11	11	14	15	15	15	16	16	16	16	18	18	18	18
1957	151	-4	0	1	1	2	3	3	4	4	6	6	7	9	9	10	11	11	12	13	13
1958	151	0	3	3	4	4	4	4	4	4	6	6	7	7	8	8	8	8	8	8	9
1959	152	6	6	7	8	8	9	9	10	10	10	11	11	12	12	12	12	12	13	14	14
1960	151	-3	-2	0	1	1	2	2	2	3	3	3	4	4	4	4	5	6	7	8	10
1961	151	-1	3	4	4	4	5	7	7	7	8	8	9	9	9	10	10	12	12	13	13
1962	151	-13	-4	-2	-2	-1	0	0	0	1	2	2	3	4	4	6	7	7	7	7	7
1963	152	1	2	5	5	6	6	7	8	8	8	10	10	11	11	11	11	12	12	12	12
1964	151	-3	-1	-1	0	0	0	2	2	6	6	6	7	7	9	10	10	12	12	12	12
1965	151	-3	0	1	4	5	5	6	7	8	10	11	11	11	12	12	13	14	14	14	15
1966	151	2	2	3	3	3	4	6	7	8	8	8	9	10	10	11	14	15	15	16	16
1967	152	-1	-1	0	0	2	2	4	5	5	6	7	7	7	8	8	8	8	9	9	10
1968	151	-2	1	2	5	5	6	6	6	8	9	9	9	10	10	11	11	11	12	12	12
1969	151	-4	-2	1	1	2	2	3	4	4	4	8	8	9	9	10	10	10	10	12	13
1970	151	-4	-4	-2	0	3	4	4	5	6	7	8	8	9	9	9	10	11	11	12	12
1971	152	-4	0	1	3	3	4	5	6	7	7	7	9	9	9	9	10	10	10	10	11
1972	151	-2	2	3	4	4	4	5	6	7	8	9	9	10	10	11	11	12	12	14	14
1973	151	2	6	7	10	10	11	11	11	12	13	13	13	13	14	14	14	15	15	16	16
1974	151	1	6	7	7	8	8	9	12	13	14	14	16	16	16	16	16	16	16	17	17
1975	152	-5	-3	0	0	2	3	6	6	6	7	8	9	10	11	11	12	13	13	13	13
1976	151	-15	-15	-9	-7	-4	-3	-3	-3	-3	-3	-2	-1	1	2	2	3	4	4	4	4

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 37-BRADFORD, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1941 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1977	151	-2	0	3	3	3	4	4	5	5	5	5	6	6	6	6	6	6	7	7	8
1978	151	-12	-11	-10	-9	-8	-8	-4	-4	-3	-2	0	1	2	2	2	3	3	6	7	
1979	152	-6	-6	-5	3	3	5	6	6	7	7	9	9	9	9	10	10	11	11	12	
1980	151	-9	-8	-5	-4	-4	-1	-1	0	0	0	1	1	2	2	3	4	4	4	6	7
1981	151	-21	-7	-7	-6	3	4	5	5	5	6	7	7	7	8	8	9	9	9	9	10
1982	151	6	5	6	7	10	12	12	13	14	14	15	15	15	15	15	16	16	16	16	18
1983	152	-11	-7	-3	0	0	0	2	2	2	3	3	4	5	5	6	6	6	6	6	6
1984	151	-10	-9	4	5	5	6	8	8	10	11	11	12	12	13	13	13	13	14	15	
1985	151	1	2	3	4	4	6	7	7	8	8	9	9	10	10	11	11	11	11	12	12
1986	151	-2	-1	3	7	7	9	9	11	11	12	15	15	16	17	17	17	18	18	19	19
1987	152	-1	0	1	2	2	4	6	8	10	10	11	11	12	12	12	13	13	14	15	15
1988	151	-4	6	8	8	10	10	10	11	11	12	13	13	14	14	14	14	14	15	15	15
1989	151	0	1	2	2	4	4	6	6	7	7	8	9	10	10	11	11	12	12	13	14
1990	151	0	5	7	9	11	12	13	15	15	16	16	16	17	17	18	18	18	19	19	19
1991	152	2	5	7	8	8	8	11	12	13	13	13	14	14	14	14	14	15	15	15	15
1992	151	1	6	6	7	9	9	10	10	11	11	12	12	13	13	14	14	15	15	15	16
1993	151	-15	-8	-5	-3	-3	-2	2	4	4	6	6	7	7	8	8	8	8	9	10	
1994	151	-1	0	2	3	6	7	8	8	11	11	13	13	13	14	14	15	15	15	16	16
1995	152	-5	-1	-1	1	3	4	4	4	4	5	6	6	7	7	8	8	8	8	8	10
1996	151	-3	-2	4	6	7	8	10	11	11	12	12	14	14	15	16	17	17	17	17	18
1997	151	11	13	15	15	17	20	21	21	21	21	21	21	21	22	22	23	23	23	23	23
1998	151	3	6	7	8	8	9	9	10	11	11	11	11	11	12	13	14	14	14	15	15
1999	152	1	3	4	5	7	9	9	11	12	13	13	13	14	14	15	15	17	17	17	17
2000	151	8	9	12	12	12	13	13	13	14	14	15	15	15	15	15	16	16	16	16	16
2001	151	14	14	14	15	16	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21
2002	151	1	1	2	3	4	5	6	6	6	7	7	7	7	9	9	9	9	10	10	10
2003	152	-5	0	2	2	2	3	4	5	6	7	8	9	9	10	12	12	12	12	13	13
2004	151	-1	0	0	2	4	5	5	5	8	9	9	11	11	13	14	14	14	15	15	15
2005	151	6	7	8	10	10	12	13	13	15	15	15	15	15	15	15	16	17	17	17	17
2006	151	-2	0	0	3	4	5	7	7	7	8	9	10	10	10	10	10	11	11	11	12
2007	152	0	4	5	8	9	9	10	11	11	12	12	13	13	13	14	15	15	16	16	16

Gumbel Analysis

Table 2

May 27, 2008

Weather Station 37-BRADFORD, PA. Using Temperature Variable MID\_MID\_AVG\_TMP  
 Temperature with the Indicated Probability of Occurrence for each period, per the Gumbel Distribution  
 Overall Range Beginning Years: 1941 to 2007; Period Range: 11-01 to 03-31

Rank	Gumbel Curve parameters and probabilities							
	Alpha	Gamma	1/5.0	1/7.0	1/10.0	1/15.0	1/20.0	1/25.0
1	0.87390	0.1682600	-8.4	-10.5	-12.7	-15.3	-17.0	-18.4
2	2.90277	0.1306198	-4.0	-5.6	-7.2	-9.1	-10.3	-11.3
3	4.17767	0.1153921	-1.7	-3.1	-4.5	-6.1	-7.1	-7.9
4	5.33023	0.1004762	-0.3	-1.6	-2.9	-4.4	-5.4	-6.1
5	6.40965	0.0940484	1.2	-0.0	-1.3	-2.6	-3.5	-4.2
6	7.32384	0.0823818	2.0	0.8	-0.5	-1.9	-2.8	-3.5
7	8.26092	0.0770964	3.1	1.9	0.7	-0.7	-1.6	-2.2
8	8.96852	0.0723054	3.9	2.7	1.5	0.2	-0.7	-1.4
9	9.57851	0.0702994	4.7	3.6	2.4	1.1	0.3	-0.3
10	10.09615	0.0676579	5.4	4.2	3.1	1.8	1.1	0.4

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 38-MORGANTOWN, WV. Using Temperature Variable MID\_MID\_AVG\_TMP  
 20 Coldest Daily Temperatures Per Period, Ranked  
 Overall Range Beginning Years: 1949 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1949	151	15	15	17	17	19	20	20	21	21	21	22	23	25	26	26	26	26	28	28	28
1950	151	7	8	8	8	13	14	14	14	15	15	17	18	18	19	19	20	21	22	22	22
1951	152	6	12	14	16	19	21	21	22	23	24	24	25	26	26	26	27	27	27	27	27
1952	151	19	21	23	23	24	24	24	24	24	24	25	25	26	26	27	27	27	28	28	29
1953	151	13	14	15	16	17	18	18	20	20	22	23	23	24	24	24	24	24	24	25	25
1954	151	5	8	11	12	12	13	14	14	16	17	19	20	20	20	20	21	22	22	24	24
1955	152	14	16	17	17	19	19	19	20	20	20	21	21	21	22	22	22	23	23	24	24
1956	151	3	11	12	14	15	16	18	18	20	21	22	23	23	25	26	26	26	26	27	27
1957	151	0	6	7	8	12	12	12	14	14	15	16	16	16	16	16	16	17	17	19	20
1958	151	5	8	9	9	10	11	11	11	13	14	14	15	16	17	17	17	17	18	18	19
1959	152	14	15	16	16	17	17	17	18	18	19	19	20	20	20	21	21	21	21	22	22
1960	151	3	7	7	8	9	9	9	10	10	14	14	15	16	17	18	18	19	19	19	20
1961	151	5	6	10	12	12	13	15	16	16	17	17	20	21	22	22	22	23	23	23	24
1962	151	-5	4	5	6	7	8	9	9	10	11	11	11	11	12	14	15	15	15	16	16
1963	152	7	9	10	11	14	14	15	15	16	16	18	18	19	19	20	20	20	20	21	21
1964	151	4	6	7	8	8	9	11	13	14	15	15	16	16	16	16	17	17	17	18	19
1965	151	3	6	12	12	17	18	18	18	19	20	20	21	21	21	21	21	21	21	22	23
1966	151	7	10	11	12	14	15	15	17	19	19	19	20	20	21	21	22	22	23	25	25
1967	152	0	3	6	6	9	10	10	13	13	14	14	14	14	15	17	17	18	18	18	18
1968	151	11	11	13	13	13	13	15	15	15	16	16	17	18	19	19	19	19	20	20	20
1969	151	-6	-3	3	5	5	7	9	12	13	13	15	17	17	17	18	18	19	19	19	20
1970	151	2	3	8	9	9	12	12	12	14	14	14	15	15	15	18	19	21	21	21	21
1971	152	-8	4	4	11	12	12	12	12	15	15	15	17	19	19	20	20	21	21	21	21
1972	151	2	10	10	10	11	12	12	12	12	12	13	14	14	16	16	16	17	18	19	21
1973	151	12	13	14	15	16	16	17	18	19	19	20	21	21	22	22	22	22	22	23	23
1974	151	11	13	17	20	20	20	21	22	22	22	23	23	23	23	24	24	25	25	25	25
1975	152	3	7	8	11	12	13	14	16	16	17	18	18	18	21	21	23	23	23	23	24
1976	151	-5	4	5	7	8	8	10	10	10	11	12	12	12	12	13	13	15	16	16	16
1977	151	6	9	10	10	11	12	13	13	13	14	14	15	15	15	15	15	15	15	16	16
1978	151	7	7	8	10	12	12	12	13	14	15	15	16	16	16	17	18	18	19	19	19
1979	152	12	14	15	16	16	17	17	17	17	18	20	21	21	22	23	23	23	24	24	26
1980	151	3	4	6	7	7	7	8	9	11	11	11	12	14	15	15	16	19	19	19	19
1981	151	-8	-1	-1	9	13	13	14	15	16	16	17	17	17	20	21	21	21	21	22	22
1982	151	13	14	15	19	20	21	22	23	23	23	24	24	26	26	26	26	27	27	27	27
1983	152	-8	-2	2	5	6	7	10	11	12	13	15	15	16	17	17	18	19	20	20	20
1984	151	-7	-6	8	10	11	13	13	14	15	17	17	17	17	17	18	18	18	19	20	21

Gumbel Analysis

Table 1

May 27, 2008

Weather Station 38-MORGANTOWN, WV. Using Temperature Variable MID\_MID\_AVG\_TMP

20 Coldest Daily Temperatures Per Period, Ranked

Overall Range Beginning Years: 1949 to 2007; Period Range: 11-01 to 03-31

Period Begins	N days	Rank																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1985	151	6	12	12	12	13	14	15	15	16	16	16	16	17	18	19	19	19	20	21	21
1986	151	8	11	13	16	16	17	21	22	22	23	23	23	25	26	27	28	28	28	28	29
1987	152	7	7	9	10	14	14	15	16	17	17	18	18	19	19	20	21	22	22	22	22
1988	151	12	12	16	16	18	19	21	21	21	21	22	22	22	22	23	23	23	24	24	25
1989	151	-2	4	6	6	8	12	12	13	14	15	15	16	17	18	22	23	23	23	24	24
1990	151	13	16	17	20	22	22	23	24	25	25	26	26	26	26	27	27	28	28	28	28
1991	152	12	12	17	19	20	20	21	22	22	22	23	23	23	24	24	24	24	24	25	25
1992	151	13	15	16	17	17	18	19	20	22	23	24	24	25	25	25	26	26	27	27	27
1993	151	-10	0	2	4	4	6	15	15	15	16	18	18	18	18	19	19	20	20	21	21
1994	151	9	9	11	12	15	16	16	17	20	21	22	23	24	24	24	24	25	25	25	27
1995	152	3	7	9	12	12	14	15	15	16	17	17	17	18	18	20	20	21	21	21	21
1996	151	5	7	11	12	12	13	15	18	21	21	22	22	22	23	24	25	26	26	27	27
1997	151	20	21	22	23	24	26	27	27	28	28	28	28	28	29	29	29	30	30	30	30
1998	151	11	17	18	19	20	20	20	21	21	21	21	21	22	23	23	24	24	24	25	25
1999	152	11	12	12	13	17	18	18	18	19	19	21	21	23	24	24	25	25	26	26	26
2000	151	12	12	13	13	14	16	17	18	18	18	18	19	20	21	21	21	22	22	22	22
2001	151	16	17	17	18	18	21	22	22	23	23	24	24	24	24	26	26	27	28	28	29
2002	151	9	9	9	12	14	16	17	17	17	17	18	19	19	20	20	20	20	20	21	22
2003	152	7	9	11	11	13	13	13	15	16	17	17	17	19	21	22	22	22	23	23	23
2004	151	8	9	10	12	14	16	16	19	20	20	21	22	22	22	23	24	24	24	24	25
2005	151	13	19	20	20	21	24	24	24	24	24	24	25	25	26	26	26	26	26	26	26
2006	151	5	7	13	13	14	15	15	16	16	17	17	18	19	20	21	21	22	23	23	23
2007	152	12	14	15	16	17	18	19	19	20	20	21	22	23	24	25	26	26	26	26	26

Gumbel Analysis

Table 2

May 27, 2008

Weather Station 38-MORGANTOWN, WV. Using Temperature Variable MID\_MID\_AVG\_TMP  
 Temperature with the Indicated Probability of Occurrence for each period, per the Gumbel Distribution  
 Overall Range Beginning Years: 1949 to 2007; Period Range: 11-01 to 03-31

Rank	Gumbel Curve parameters and probabilities							
	Alpha	Gamma	1/5.0	1/7.0	1/10.0	1/15.0	1/20.0	1/25.0
1	9.42820	0.1666778	0.3	-1.8	-4.1	-6.7	-8.4	-9.8
2	11.13870	0.1322378	4.3	2.7	1.1	-0.7	-1.9	-2.9
3	12.61943	0.1162669	6.8	5.4	4.0	2.4	1.4	0.6
4	13.74515	0.1069291	8.5	7.2	6.0	4.6	3.7	3.0
5	15.02100	0.0978228	10.0	8.8	7.7	6.3	5.5	4.8
6	15.91028	0.0889637	11.0	9.8	8.7	7.4	6.6	5.9
7	16.69601	0.0858801	12.1	11.0	9.9	8.7	7.9	7.3
8	17.45678	0.0831191	13.0	12.0	10.9	9.8	9.1	8.5
9	18.13676	0.0811158	13.9	12.9	11.9	10.8	10.1	9.5
10	18.66165	0.0811353	14.7	13.8	12.8	11.8	11.1	10.6

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-018:

For each customer class contained in the cost of service study, please provide monthly throughput by class.

Response:

Please see the attached spreadsheet COS-18 Attachment A for forecasted quantities by rate schedule by customer class by month. In addition, please see Exhibit No. 103, Schedule No. 4, Pages 10 through 13, for monthly quantities pertaining to new customers and customer attrition. Together, the monthly quantities sum to the total forecasted test year volumes shown in Exhibit No. 103, Page 17, Line 33, for the cost of service.

**Columbia Gas of Pennsylvania, Inc.**  
**Forecasted Quantities By Rate Schedule by Customer Class by Month**  
**For the 12 Months Ending June 30, 2014**

		July DTH	Aug DTH	Sept DTH	Oct DTH	Nov DTH	Dec DTH	Jan DTH	Feb DTH	Mar DTH	April DTH	May DTH	June DTH
CAP	RES	44,552.3	36,782.9	43,211.3	86,295.2	199,620.0	348,788.1	493,443.4	463,383.7	387,268.6	271,302.4	133,210.8	74,670.8
LDS FLEX	COM	16,800.0	17,000.0	18,000.0	17,900.0	18,900.0	20,000.0	21,200.0	21,200.0	20,200.0	19,100.0	17,900.0	17,800.0
LDS FLEX	IND	674,500.0	684,384.0	664,012.0	604,000.0	624,300.0	611,400.0	647,500.0	663,800.0	648,600.0	635,500.0	644,328.0	683,076.0
LDS	COM	125,264.8	152,503.5	163,062.6	184,193.9	238,547.8	280,824.5	307,386.5	307,693.3	256,648.9	234,712.9	187,203.3	161,101.2
LDS	IND	545,696.4	574,270.6	583,058.2	626,263.6	576,634.3	626,809.1	687,124.8	710,354.0	693,319.9	615,709.7	536,362.1	512,196.1
LGSS	COM	15,654.1	9,885.0	10,586.6	27,433.7	54,261.5	105,033.6	176,609.5	156,605.1	116,891.7	83,408.2	44,795.4	28,277.2
LGSS	IND	7,228.8	9,800.9	8,388.3	10,402.6	8,075.1	8,688.6	8,513.5	7,383.1	7,417.7	9,922.4	7,818.1	8,403.6
MLDS I	COM	4,200.0	4,300.0	4,800.0	6,100.0	8,800.0	11,700.0	16,200.0	15,100.0	11,200.0	8,400.0	6,100.0	5,200.0
MLDS I	IND	33,800.0	19,300.0	8,700.0	4,000.0	4,700.0	4,200.0	5,000.0	5,500.0	4,600.0	4,400.0	4,100.0	14,000.0
MLDS I FLEX	IND	199,000.0	225,000.0	230,000.0	240,000.0	260,000.0	260,000.0	280,000.0	290,000.0	265,000.0	255,000.0	245,000.0	215,000.0
MLDS II	IND	24,600.0	24,800.0	25,300.0	25,200.0	26,000.0	25,800.0	27,400.0	25,100.0	24,700.0	23,600.0	20,100.0	23,400.0
MLDS II FLEX	IND	127,500.0	129,000.0	128,000.0	132,500.0	130,000.0	123,500.0	156,000.0	160,000.0	163,000.0	151,000.0	148,000.0	135,500.0
NSS	COM	2,100.0	2,100.0	2,100.0	3,500.0	6,000.0	8,300.0	10,000.0	9,000.0	7,400.0	5,000.0	3,000.0	2,500.0
NSS	IND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RDGDS	RES	13.2	12.4	17.9	26.9	65.3	115.3	153.3	145.5	92.2	64.6	37.0	7.6
RDGSS	RES	60.6	68.2	122.8	63.3	294.8	377.2	497.0	456.4	353.6	277.0	103.2	87.7
RDS	RES	116,434.4	115,204.7	119,770.7	231,677.9	510,314.7	921,096.6	1,357,403.3	1,320,470.8	1,108,639.2	745,632.9	361,752.2	181,321.7
RSS	RES	395,939.4	387,931.8	398,877.2	699,936.7	1,632,705.2	2,946,622.8	4,417,503.0	4,313,543.6	3,670,646.4	2,462,723.0	1,127,896.8	614,912.3
SCD	COM	40,998.5	39,000.3	40,999.3	62,000.0	110,999.9	181,998.9	260,000.4	258,999.9	210,999.7	149,000.7	77,999.6	54,000.2
SDS FLEX	COM	6,200.0	6,500.0	6,900.0	10,600.0	17,200.0	23,100.0	28,900.0	29,000.0	21,000.0	16,400.0	10,800.0	8,100.0
SDS FLEX	IND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SDS	COM	147,703.9	165,417.4	169,594.3	236,292.7	349,451.0	493,201.6	587,509.8	588,700.1	461,000.3	389,078.8	241,686.1	181,291.1
SDS	IND	207,959.1	224,071.2	225,204.0	239,465.0	243,946.2	250,272.0	255,229.0	263,380.1	248,391.5	239,234.4	222,671.0	217,707.9
SGDS FLEX	COM	0.0	0.0	100.0	500.0	1,300.0	2,000.0	3,100.0	2,700.0	2,400.0	1,400.0	500.0	0.0
SGDS FLEX	IND	0.0	0.0	0.0	100.0	200.0	300.0	400.0	300.0	300.0	100.0	100.0	0.0
SGDS OTHER	COM	111,830.0	119,275.9	116,543.9	161,419.6	275,807.4	458,172.7	592,702.1	561,608.1	469,551.3	325,909.4	203,809.7	138,528.7
SGDS OTHER	IND	5,044.7	4,557.9	6,237.7	5,771.3	6,520.0	8,019.0	9,645.8	9,866.1	9,388.5	5,756.1	5,866.6	4,895.9
SGSS	COM	108,244.0	45,009.5	52,314.2	173,076.9	495,735.7	1,006,664.7	1,704,391.3	1,747,395.3	1,436,705.3	891,590.8	313,203.6	171,225.8
SGSS	IND	8,771.1	7,198.7	8,611.8	8,597.4	11,924.8	12,311.3	12,486.9	14,616.7	13,582.5	10,077.8	10,181.6	8,596.5
<b>Total</b>		<b>2,970,095.3</b>	<b>3,003,374.9</b>	<b>3,034,512.8</b>	<b>3,797,316.7</b>	<b>5,812,303.7</b>	<b>8,739,296.0</b>	<b>12,066,299.6</b>	<b>11,946,301.8</b>	<b>10,259,297.3</b>	<b>7,554,301.1</b>	<b>4,574,525.1</b>	<b>3,461,800.3</b>

Columbia Gas of Pennsylvania, Inc.  
Docket No. R-2012-2321748

Standard Data Request

Cost Of Service

Question No. COS-19:

Please provide workpapers showing the development of each allocation factor reflected in the Company's cost of service study. Include a description of each allocation factor, all calculations performed to develop the allocators and all supporting documentation, studies or other information relied upon to determine the allocators.

Response:

Statement No. 9 with related attachments contains a description of the allocation factors and assignment to the various components of the Studies. Exhibit No. 111, Schedule No. 4 as well as within each study, Schedules 1, 2 & 3, contains a legend of the allocation factors.

COS-19 Attachments 1 and 2 contain the development of the O&M Expenses by FERC Account used in the Studies. O&M Expense for the fully forecasted rate year and presented in Exhibit No. 104 was based on cost element data, i.e., labor, benefits, insurance, etc. Attachment 1 adds the individual adjustments to the historic test year per book FERC Account amounts for use in the studies. Attachment 2 presents the allocation factors used to assign those cost element amounts that impact more than one FERC account.

COS-19 Attachment 3 is a workpaper related to Direct Plant Services, and COS-19 Attachment 4 is a workpaper related to Direct Plant Meters. COS-19 Attachment 5 is a workpaper related to the Direct Assignment of Mainline Customers.

Acct. No.	Description	Per Books		Annualized		Rate Case	Labor	Incentive Compensation	Pensions	DBEB	Other Employee Benefits	Outside Services	Rents and Leases	Corp. Ins.	Injuries and Damages
		Twelve Months Ended May 31, 2012	Summary of Adjustments	Twelve Months Ended June 30, 2014	Expense										
807	Purchased Gas Expenses	1,390,428	130,999	1,501,425	0	0	0	0	0	0	0	0	0	0	0
816	Wells Expense	8,908	1,846	10,754	0	1,835	0	0	0	0	0	0	0	0	0
817	Pipeline Expenses	31,220	6,405	37,625	0	5,382	0	0	0	0	0	0	0	0	0
818	Compressor Station Expenses	134,881	16,577	150,458	0	15,656	0	0	0	0	465	0	0	0	0
820	Misc. and Reg. Sta. Exp.	13,022	2,818	15,840	0	2,811	0	0	0	0	0	0	0	0	0
821	Purification-Derivation Expenses	2,970	512	3,082	0	607	0	0	0	0	0	0	0	0	0
823	Gas Losses	3,477	(1,385)	2,092	0	0	0	0	0	0	0	0	0	0	0
825	Storage Well Rentals	6,977	0	5,977	0	1,288	0	0	0	0	0	0	0	0	0
832	Wells	6,823	1,300	7,923	0	1,117	0	0	0	0	0	0	0	0	0
834	Compressor Station Equipment	5,112	1,118	6,230	0	1,108	0	0	0	0	0	0	0	0	0
836	Purification-Derivation Equipment	5,570	1,119	6,789	0	1,108	0	0	0	0	0	0	0	0	0
870	Superheat and Engineering	4,079,982	588,313	4,668,295	0	405,887	0	0	0	0	3,340	0	0	0	0
871	Distribution Load Dispatching	106,539	18,006	124,544	0	17,010	0	0	0	0	0	0	0	0	0
874	Maint. and Services Expenses	9,814,128	1,233,958	10,858,086	0	1,028,919	0	0	0	0	87,313	0	0	0	0
875	Misc. and Reg. Sta. Exp.- General	642,204	47,990	690,194	0	65,789	0	0	0	0	2,856	0	0	0	0
876	Misc. and Reg. Sta. Exp.- Industrial	203,244	38,738	245,982	0	36,975	0	0	0	0	22	0	0	0	0
878	Misc. and Reg. Sta. Exp. - Industrial	2,088,534	356,911	2,455,745	0	367,751	0	0	0	0	1,188	0	0	0	0
879	Customer Installations Expense	4,132,460	680,828	4,813,088	0	650,821	0	0	0	0	14,994	0	0	0	0
880	Other Expenses	4,386,088	439,933	4,826,061	0	548,019	0	0	0	0	13,863	0	0	0	0
881	Rents	227,861	45,547	273,399	0	0	0	0	0	0	0	0	0	0	0
885	Supervision and Engineering	43,232	8,187	51,369	0	7,943	0	0	0	0	46	0	0	0	0
886	Structures and Improvements	60,745	8,129	68,874	0	1,613	0	0	0	0	1,289	0	0	0	0
887	Misc. and Reg. Sta. Exp.- General	9,230,551	955,081	10,185,632	0	788,091	0	0	0	0	124,788	0	0	0	0
890	Misc. and Reg. Sta. Exp.- Industrial	634,461	74,719	609,180	0	69,598	0	0	0	0	3,020	0	0	0	0
892	Services	111,189	15,920	127,109	0	13,212	0	0	0	0	82	0	0	0	0
893	Meters and House Regulators	2,703,363	305,018	3,008,381	0	246,294	0	0	0	0	45,043	0	0	0	0
894	Meters and House Regulators	289,554	18,609	308,163	0	33,988	0	0	0	0	4,221	0	0	0	0
895	Other Equipment	720,666	75,637	796,193	0	83,988	0	0	0	0	118,761	0	0	0	0
902	Meter Reading Expenses	1,980,979	168,088	2,128,147	0	153,126	0	0	0	0	45,230	0	0	0	0
903	Collecting - Delinquent Accounts	915,039	157,059	1,072,106	0	153,126	0	0	0	0	1,013	0	0	0	0
903	Collecting - Current Accounts	7,878	83	7,959	0	0	0	0	0	0	83	0	0	0	0
903	Billing and Accounting	5,780,959	114,642	5,797,611	0	11,806	0	0	0	0	2	0	0	0	0
903	Renting Bils	1,815,761	688,828	2,484,720	0	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - DIS	4,281,369	(232,403)	3,037,943	0	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - OMB	271,364	(732,403)	38,961	0	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - Unbund - Gas DIS	1,653,333	151,539	1,824,872	0	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - Unbund - Gas OMB	106,170	(82,788)	23,404	0	0	0	0	0	0	0	0	0	0	0
904	Misc.Customer Accounts Expenses	9,480,839	(1,071,884)	8,409,295	0	0	0	0	0	0	0	0	0	0	0
906	Misc.Customer Accounts Expenses	16,938	512	17,448	0	0	0	0	0	0	463	0	0	0	0
908	Customer Assistance	405,617	117,846	613,463	0	0	0	0	0	0	989	0	0	0	0
909	Direct USPL/URPV/HEEP	2,702,206	(313,432)	2,388,776	0	0	0	0	0	0	78,359	0	0	0	0
909	International / Instructional Advertising	34,344	3,841	38,185	0	0	0	0	0	0	0	0	0	0	0
910	Misc. Customer Services and Information	1,187,743	429,455	1,617,198	0	0	0	0	0	0	0	0	0	0	0
912	Demonstrations	686,454	65,453	752,907	0	0	0	0	0	0	0	0	0	0	0
913	Advertising	116,305	12,960	129,665	0	0	0	0	0	0	0	0	0	0	0
920	Administrative and General Salaries	3,376,491	631,080	3,906,071	0	782,387	0	0	0	0	178	0	0	0	0
921	Office Supplies and Expenses	2,043,997	(13,825)	2,030,071	(886)	0	0	0	0	0	0	0	0	0	0
923	Outside Services Employed	29,837,653	11,408,071	41,245,654	(556,493)	0	0	0	0	0	989	0	0	0	0
924	Property Insurance	145,680	11,913	157,483	0	0	0	0	0	0	41,658	0	0	0	0
925	Injuries and Damages	3,349,854	376,068	3,725,912	0	0	0	0	0	0	0	0	0	0	0
926	Employee Pensions and Benefits	13,287,532	(4,582,607)	8,794,725	0	0	0	0	0	0	0	0	0	0	0
928	Regulatory Commission Expenses	1,386,622	31,509	1,428,131	0	0	0	0	0	0	0	0	0	0	0
928	Miscellaneous General	480,342	69,783	550,125	0	0	0	0	0	0	0	0	0	0	0
930	Rent - General	247,004	48,335	295,339	0	0	0	0	0	0	216	0	0	0	0
931	Non OMB Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		126,146,537	11,608,221	137,753,459	(656,390)	5,398,826	(201,499)	(4,280,196)	(1,736,639)	1,042,229	483,941	279,473	228,388	148,658	
Per Financial Statement		128,146,237	11,608,221	137,753,458	(656,390)	5,398,828	(261,499)	(4,280,196)	(1,736,639)	1,042,229	483,941	279,473	228,388	148,658	
Difference		0	0	1	0	0	0	0	0	0	(0)	0	0	(0)	
Exhibit No. 4 Rate Case Adjustment		(556,380)	0	(556,380)	0	0	0	0	0	0	0	0	0	0	0
Exhibit No. 4 NIFT Adjustment		(162,706)	0	(162,706)	0	0	0	0	0	0	0	0	0	0	0
Exhibit No. 106 Adjustment		47,341	0	47,341	0	2,761,720	0	0	0	0	0	0	0	0	0
Exhibit No. 106 Adjustment - FTY		6,046,219	0	6,046,219	0	2,027,394	(286,937)	(1,294,310)	(1,736,639)	706,489	0	0	(94,748)	(82,344)	127,011
Exhibit No. 104 Inflation Adjustment - FTY		420,732	0	420,732	0	0	0	0	0	0	280,346	0	374,221	(36,341)	0
Exhibit No. 104 Adjustment - FTRY		5,442,072	0	5,442,072	0	606,612	0	(2,986,898)	0	356,734	0	0	0	0	11,957
Exhibit No. 104 Inflation Adjustment - FTRY		361,343	0	361,343	0	0	0	0	0	0	223,696	0	0	0	0
Total		11,608,221	0	11,608,221	(656,390)	5,398,826	(261,499)	(4,280,196)	(1,736,639)	1,042,229	483,941	279,473	228,388	148,658	

Exhibit 4 and Exhibit 104 Adjustments

Statement of Operations and Maintenance Expense  
Twelve Months Ended May 31, 2012

Exhibit 4 and Exhibit 104 Adjustments

Acct. No.	Description	Employee Expenses	Company Memberships	Utilities In Co. Operations	Uncoll Accts Unbundled	Uncoll Accts CAP Rider USP	Rider User LIURP Energy Efficiency	Advertising	Other O&M	DJMP	Interest on Customer Deposits	Lobbying	PUC, OCA, OSBA
807	Purchased Gas Expenses	0	0	0	0	0	0	0	0	0	0	0	0
816	Wells Expense	0	0	0	0	0	0	0	11	0	0	0	0
817	Pipeline Expenses	0	0	0	0	0	0	0	0	0	0	0	0
818	Compressor Station Expenses	35	0	(2,245)	0	0	0	0	0	0	0	0	0
820	Meas. and Reg. Sta. Exp.	0	0	0	0	0	0	0	617	0	0	0	0
821	Purification-Dehydration Expenses	0	0	0	0	0	0	0	7	0	0	0	0
823	Gas Leases	0	0	(1,395)	0	0	0	0	6	0	0	0	0
825	Storage Well Rosties	0	0	0	0	0	0	0	0	0	0	0	0
832	Wells	0	0	0	0	0	0	0	12	0	0	0	0
834	Compressor Station Equipment	0	0	0	0	0	0	0	2	0	0	0	0
838	Purification-Dehydration Equipment	0	0	0	0	0	0	0	11	0	0	0	0
870	Supervision and Engineering	6,148	(1)	(944)	0	0	0	0	2,282	0	0	0	0
871	Distribution Lead Dispatching	0	0	0	0	0	0	0	436	0	0	0	0
874	Maint. and Services Expenses	18,108	0	0	0	0	0	0	30,001	0	0	0	0
875	Meas. and Reg. Sta. Exp.- General	663	0	(22,572)	0	0	0	0	1,863	0	0	0	0
878	Meas. and Reg. Sta. Exp.- Industrial	0	0	0	0	0	0	0	740	0	0	0	0
879	Meas. and Hse. Reg. Expense	868	0	(13)	0	0	0	0	6,985	0	0	0	0
880	Customer Installations Expense	6,934	0	(145,926)	0	0	0	0	12,308	0	0	0	0
881	Rents	0	0	0	0	0	0	0	13,225	0	0	0	0
886	Supervision and Engineering	136	0	(2)	0	0	0	0	0	0	0	0	0
888	Structures and Improvements	0	0	(1,232)	0	0	0	0	35	0	0	0	0
887	Maint	0	0	(10,342)	0	0	0	0	49	0	0	0	0
889	Meas. and Reg. Sta. Exp.- General	7	0	0	0	0	0	0	32,818	0	0	0	0
890	Meas. and Reg. Sta. Exp.- Industrial	0	0	0	0	0	0	0	2,104	0	0	0	0
892	Services	32	0	(4)	0	0	0	0	482	0	0	0	0
893	Meters and House Regulators	0	0	0	0	0	0	0	6,189	0	0	0	0
894	Other Equipment	0	0	0	0	0	0	0	2,834	0	0	0	0
902	Motor Reading Expenses	686	0	(48)	0	0	0	0	3,887	0	0	0	0
903	Collecting - Delinquent Accounts	13	0	0	0	0	0	0	1,441	0	0	0	0
903	Collecting - Current Accounts	0	0	0	0	0	0	0	2,817	0	0	0	0
903	Billing and Accounting	7	0	0	0	0	0	0	0	0	0	0	0
903	Renting Bills	0	0	0	0	0	0	0	127	0	0	0	0
904	Uncollectible Accounts - DIS	0	0	0	(1,213,426)	0	0	0	28,701	0	0	0	0
904	Uncollectible Accounts - GMB	0	0	0	(232,403)	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - Unbund.- Gas DIS	0	0	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - Unbund.- Gas GME	0	0	0	161,638	0	0	0	0	0	0	0	0
904	Uncollectible CAP-Rider USP	0	0	0	(82,766)	0	0	0	0	0	0	0	0
905	Misc.Customer Accounts Expenses	0	0	0	0	(1,011,564)	0	0	0	0	0	0	0
906	Customer Assistance	572	0	0	0	0	0	0	59	0	0	0	0
908	Direct USP/LURP/HEP	0	0	0	0	0	(313,432)	0	0	0	0	0	0
909	Informational/ Instructional Advertising	0	0	0	0	0	0	0	0	0	0	0	0
910	Misc. Customer Service and Information	0	0	0	0	0	0	0	0	0	0	0	0
912	Demonstration	0	0	0	0	0	0	0	0	0	0	0	0
913	Advertising	0	0	0	0	0	0	0	0	0	0	0	0
920	Administrative and General Salaries	502	0	0	0	0	0	0	0	0	0	0	0
921	Office Supplies and Expenses	28,027	(1,446)	(120,236)	0	0	0	(80,283)	4,868	7,670,000	0	(15,118)	0
923	Outside Services Employed	0	0	0	0	0	0	0	0	0	0	(78,716)	0
924	Property Insurance	0	0	0	0	0	0	0	0	0	0	0	0
925	Injuries and Damages	0	0	0	0	0	0	0	0	0	0	0	0
926	Employee Pensions and Benefits	0	0	0	0	0	0	0	11,017	0	0	0	0
928	Regulatory Penalties and Benefits	0	0	0	0	0	0	0	0	0	0	0	0
930	Miscellaneous General	0	(2,043)	0	0	0	0	(84,546)	21,848	0	0	0	8,660
931	Rent - General	0	0	0	0	0	0	0	0	0	153,359	(36,662)	0
	Non O&M Expense	0	0	0	0	0	0	0	0	0	0	0	0
	Total	59,648	(3,488)	(304,569)	(1,446,828)	78,773	(313,432)	(144,798)	192,387	7,670,000	153,359	(133,494)	9,660
	Per Financial Statement	59,648	(3,488)	(304,568)	(1,445,829)	78,773	(313,432)	(144,798)	192,387	7,670,000	153,359	(133,486)	9,660
	Difference	0	0	(0)	0	(0)	0	(0)	(0)	0	0	0	0
	Exhibit No. 4 Rate Case Adjustment	0	0	0	0	0	0	0	0	0	0	0	0
	Exhibit No. 4 NIFTY Adjustment	0	0	0	0	0	0	0	0	0	0	0	0
	Exhibit No. 4 Adjustment	0	(12,225)	(319,883)	(1,475,082)	47,572	(326,048)	(150,116)	0	0	153,359	(120,256)	9,660
	Exhibit No. 104 Adjustment - FTY	0	0	0	(58,407)	88,501	24,398	0	0	2,680,000	0	0	0
	Exhibit No. 104 Inflation Adjustment - FTY	32,088	4,702	6,029	0	0	0	2,881	103,498	0	0	(2,388)	0
	Exhibit No. 104 Adjustment - FFRY	0	0	0	88,640	(45,316)	(12,782)	0	0	4,980,000	0	0	0
	Exhibit No. 104 Inflation Adjustment - FFRY	27,558	4,036	6,956	0	0	0	2,657	89,889	0	0	(2,051)	0
	Total	59,648	(3,488)	(304,565)	(1,445,829)	78,773	(313,432)	(144,798)	192,387	7,670,000	153,359	(133,486)	9,660

Statement of Operations and Maintenance Expense  
Twelve Months Ended May 31, 2012

Exhibit 4 and Exhibit 104 Adjustments

Acct. No.	Description	Charitable Contributions	System Services	Emergency Furnace Repair	GTI	Rate Case Expense Normaliz	NIFIT	NCSC OPEB Costs Amort.	Education and Outreach	Orbitration	York MGP Costs
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
807	Purchased Gas Expenses	0	150,999	0	0	0	0	0	0	0	0
816	Wells Expense	0	0	0	0	0	0	0	0	0	0
817	Pipeline Expenses	0	0	0	0	0	0	0	0	0	0
818	Compressor Station Expenses	0	0	0	0	0	0	0	0	0	0
820	Meas. and Reg. Sta. Exp.	0	0	0	0	0	0	0	0	0	0
821	Purification-Dehydration Expenses	0	0	0	0	0	0	0	0	0	0
823	Gas Losses	0	0	0	0	0	0	0	0	0	0
826	Storage Well Remediat	0	0	0	0	0	0	0	0	0	0
832	Wells	0	0	0	0	0	0	0	0	0	0
834	Compressor Station Equipment	0	0	0	0	0	0	0	0	0	0
836	Purification-Dehydration Equipment	0	0	0	0	0	0	0	0	0	0
870	Supervision and Engineering	(945)	206,065	0	0	0	0	0	0	0	(34,193)
871	Distribution Load Dispatching	0	0	0	0	0	0	0	0	0	0
874	Mains and Services Expenses	(6)	4,072	0	0	0	0	0	0	75,000	0
875	Meas. and Reg. Sta. Exp.- General	0	0	0	0	0	0	0	0	0	0
876	Meas. and Reg. Sta. Exp.- Industrial	0	0	0	0	0	0	0	0	0	0
878	Meters and Hse. Reg. Expense	(6)	0	0	0	0	0	0	0	0	0
879	Customer Installations Expense	(5)	2,259	0	0	0	0	0	0	0	0
880	Other Expenses	(300)	0	0	0	0	0	0	0	0	0
881	Rents	0	0	0	0	0	0	0	0	0	0
886	Supervision and Engineering	0	9	0	0	0	0	0	0	0	0
888	Structures and Improvements	0	0	0	0	0	0	0	0	0	0
887	Mains	0	7,961	0	0	0	0	0	0	0	0
889	Meas. and Reg. Sta. Exp.- General	0	0	0	0	0	0	0	0	0	0
890	Meas. and Reg. Sta. Exp.- Industrial	0	2,184	0	0	0	0	0	0	0	0
892	Services	0	3,080	0	0	0	0	0	0	0	0
893	Meters and House Regulators	0	4,744	0	0	0	0	0	0	0	0
894	Other Equipment	0	13,484	0	0	0	0	0	0	0	0
902	Meter Reading Expenses	0	0	0	0	0	0	0	0	0	0
903	Collecting - Delinquent Accounts	0	0	0	0	0	0	0	0	0	0
903	Collecting - Current Accounts	0	0	0	0	0	0	0	0	0	0
903	Billing and Accounting	0	0	0	0	0	0	0	0	0	0
903	Rendering Bills	0	640,257	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - DIS	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - GMB	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - Unbund.- Gas DIS	0	0	0	0	0	0	0	0	0	0
904	Uncollectible Accounts - Unbund.- Gas GMB	0	0	0	0	0	0	0	0	0	0
904	Uncollectible CAP-Rider USP	0	0	0	0	0	0	0	0	0	0
905	Misc.Customer Accounts Expenses	0	0	0	0	0	0	0	0	0	0
908	Customer Assistance	0	11,107	22,704	0	0	0	0	0	0	0
908	Direct USPLIURP/HEEP	0	0	0	0	0	0	0	0	0	0
909	Informational / Instructional Advertising	0	3,841	0	0	0	0	0	0	0	0
910	Misc. Customer Service and Information	0	129,456	0	0	0	0	0	300,000	0	0
912	Demonstration	0	65,463	0	0	0	0	0	0	0	0
913	Advertising	0	12,960	0	0	0	0	0	0	0	0
920	Administrative and General Salaries	0	12	0	0	0	0	0	0	0	0
921	Office Supplies and Expenses	(7,899)	0	0	0	833	0	0	0	0	0
923	Outside Services Employed	0	3,125,679	0	0	622,886	867,294	(15,062)	0	0	0
924	Property Insurance	0	0	0	0	0	0	0	0	0	0
926	Injuries and Damages	0	0	0	0	0	0	0	0	0	0
926	Employee Pensions and Benefits	0	0	0	0	0	0	0	0	0	0
928	Regulatory Commission Expenses	0	0	0	0	0	0	0	0	0	0
930	Miscellaneous General	0	0	0	42,674	0	0	0	0	0	0
931	Rent - General	0	0	0	0	0	0	0	0	0	0
	Non O&M Expense	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	<b>(9,161)</b>	<b>4,383,600</b>	<b>22,704</b>	<b>42,674</b>	<b>622,886</b>	<b>867,294</b>	<b>(15,062)</b>	<b>300,000</b>	<b>75,000</b>	<b>(34,193)</b>
	<b>Per Financial Statement</b>	<b>(9,161)</b>	<b>4,383,600</b>	<b>22,704</b>	<b>42,674</b>	<b>622,886</b>	<b>867,294</b>	<b>(15,062)</b>	<b>300,000</b>	<b>75,000</b>	<b>(34,193)</b>
	<b>Difference</b>	<b>0</b>	<b>(0)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Exhibit No. 4 Rate Case Adjustment	0	0	0	0	0	0	0	0	0	0
	Exhibit No. 4 NIFIT Adjustment	0	0	0	0	0	(152,706)	0	0	0	0
	Exhibit No. 4 Adjustment	(9,161)	618,293	22,704	0	0	0	(15,062)	0	0	(34,193)
	Exhibit No. 104 Adjustment - FTY	0	2,415,437	0	42,674	622,886	0	0	300,000	75,000	0
	Exhibit No. 104 Inflation Adjustment - FTY	0	0	0	0	0	0	0	0	0	0
	Exhibit No. 104 Adjustment - FFRY	0	1,349,770	0	0	0	1,010,000	0	0	0	0
	Exhibit No. 104 Inflation Adjustment - FFRY	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	<b>(9,161)</b>	<b>4,383,600</b>	<b>22,704</b>	<b>42,674</b>	<b>622,886</b>	<b>867,294</b>	<b>(15,062)</b>	<b>300,000</b>	<b>75,000</b>	<b>(34,193)</b>

Labor 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00	0	0.00	2,765,720.00	2,027,393.81	605,512.36	5,398,626.17
816	8,225.68	0.000339864	1,834.80				
817	28,523.14	0.001178505	6,362.31				
818	74,806.78	0.003090829	16,686.23				
820	12,604.07	0.000520769	2,811.44				
821	2,274.93	0.000093994	507.44				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	5,775.24	0.000238618	1,288.21				
834	5,006.37	0.000206851	1,116.71				
836	4,968.92	0.000205303	1,108.35				
870	1,819,559.97	0.075179654	405,866.85				
871	78,769.05	0.00325454	17,570.04				
874	4,603,826.96	0.190218583	1,026,919.02				
875	294,943.58	0.012186329	65,789.43				
876	161,280.81	0.006663719	35,974.93				
878	1,603,849.45	0.066267037	357,750.96				
879	2,917,723.65	0.120553023	650,820.70				
880	2,456,850.76	0.101510911	548,019.46				
881	0.00	0	0.00				
885	35,608.14	0.001471239	7,942.67				
886	6,781.32	0.000280187	1,512.62				
887	3,533,124.88	0.145979858	788,090.68				
889	311,973.31	0.012889955	69,588.05				
890	59,233.07	0.002447362	13,212.39				
892	1,117,487.91	0.046171798	249,264.28				
893	39,590.77	0.001635791	8,831.02				
894	242,036.88	0.010000357	53,988.19				
902	532,376.48	0.021996461	118,750.67				
903	686,487.04	0.028363923	153,126.22				
903	0.00	0	0.00				
903	51,582.59	0.002131263	11,505.89				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	0.00	0	0.00				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	3,507,552.66	0.144923277	782,386.60				
921	0.00	0	0.00				
923	0.00	0	0.00				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	0.00	0	0.00				
931	0.00	0	0.00				
Total	24,202,824.41	1.000000000	5,398,626.17				
Per F. S.	24,202,824.41						
Difference	0.00						

Incentive Compensation 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00	0	0.00	(25,739.00)	(265,937.00)	40,177.00	(251,499.00)
816	0.00	0	0.00				
817	0.00	0	0.00				
818	0.00	0	0.00				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	0.00	0	0.00				
871	0.00	0	0.00				
874	0.00	0	0.00				
875	0.00	0	0.00				
876	0.00	0	0.00				
878	0.00	0	0.00				
879	0.00	0	0.00				
880	0.00	0	0.00				
881	0.00	0	0.00				
885	0.00	0	0.00				
886	0.00	0	0.00				
887	0.00	0	0.00				
889	0.00	0	0.00				
890	0.00	0	0.00				
892	0.00	0	0.00				
893	0.00	0	0.00				
894	0.00	0	0.00				
902	0.00	0	0.00				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	0.00	0	0.00				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	1,633,221.00	1.000000000	(251,499.00)				
921	0.00	0	0.00				
923	0.00	0	0.00				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	0.00	0	0.00				
931	0.00	0	0.00				
	<u>1,633,221.00</u>	<u>1.000000000</u>	<u>(251,499.00)</u>				
Per F. S.	<u>1,633,221.00</u>						
Difference	0.00						

Outside Services 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00	0	0.00	0.00	260,345.19	223,595.71	483,940.90
816	0.00	0	0.00				
817	0.00	0	0.00				
818	14,097.10	0.001001733	484.78				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	97,125.31	0.006901676	3,340.00				
871	0.00	0	0.00				
874	2,539,015.66	0.180421185	87,313.19				
875	75,495.98	0.005364707	2,596.20				
876	651.96	0.000046328	22.42				
878	34,547.13	0.002454902	1,188.03				
879	424,387.23	0.030156745	14,594.08				
880	452,574.15	0.032159693	15,563.39				
881	0.00	0	0.00				
885	1,346.36	0.000095672	46.30				
886	37,776.33	0.002684367	1,299.08				
887	3,628,769.79	0.257858567	124,788.31				
889	87,814.03	0.006240021	3,019.80				
890	1,800.63	0.000127952	61.92				
892	1,309,810.40	0.093074473	45,042.54				
893	0.00	0	0.00				
894	122,731.56	0.008721243	4,220.57				
902	1,315,254.27	0.093461311	45,229.75				
903	29,466.36	0.002093794	1,013.27				
903	2,425.49	0.000172354	83.41				
903	62.28	0.000004428	2.14				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	13,170.23	0.00093587	452.91				
907	0.00	0	0.00				
908	2,278,912.52	0.161938385	78,368.61				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	5,184.00	0.000368372	178.27				
921	27,880.21	0.001981154	958.76				
923	1,211,387.78	0.086080611	41,657.93				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	354,744.67	0.025207979	12,199.17				
928	0.00	0	0.00				
930	0.00	0	0.00				
931	6,283.18	0.00044648	216.07				
<b>Total</b>	<b>14,072,713.61</b>	<b>1.000000000</b>	<b>483,940.90</b>				
<b>Adjusted</b>	<b>14,072,713.61</b>						
<b>Difference</b>	<b>0.00</b>						
<b>Per F. S.</b>	<b>15,570,672.61</b>						
923	542,740.00		Rate Case Expense				
923	126,035.00		Bill Inserts				
			Emergency				
908	477,296.00		Furnace Repair				
930	165,000.00		GTI				
923	152,706.00		NIFit				
923	34,193.00		York MGP Costs				
923	(11.00)		Plug				
<b>Total</b>	<b>14,072,713.61</b>						

Rents & Leases 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00	0	0.00				
816	0.00	0	0.00				
817	0.00	0	0.00				
818	0.00	0	0.00				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	1,530.16	0.001094469	305.87				
871	0.00	0	0.00				
874	77,791.78	0.055641707	15,550.37				
875	300.00	0.000214579	59.97				
876	0.00	0	0.00				
878	87.74	0.000062757	17.54				
879	0.00	0	0.00				
880	297,535.39	0.212816535	59,476.52				
881	227,852.91	0.162975123	45,547.18				
885	0.00	0	0.00				
886	0.00	0	0.00				
887	57,709.40	0.041277491	11,535.95				
889	0.00	0	0.00				
890	0.00	0	0.00				
892	7,072.59	0.005058773	1,413.79				
893	0.00	0	0.00				
894	885.26	0.000633195	176.96				
902	0.00	0	0.00				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	0.00	0	0.00				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	0.00	0	0.00				
921	486,602.10	0.348049263	97,270.44				
923	0.00	0	0.00				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	0.00	0	0.00				
931	240,716.66	0.172176108	48,118.61				
	<u>1,398,083.99</u>	<u>1.000000000</u>	<u>279,473.20</u>				
Per F. S.	<u>1,398,083.99</u>						
Differences	0.00						

Corporate Insurance 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00	0	0.00	(52,344.00)	136,941.35	143,788.42	228,385.77
816	0.00	0	0.00				
817	0.00	0	0.00				
818	0.00	0	0.00				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	0.00	0	0.00				
871	0.00	0	0.00				
874	0.00	0	0.00				
875	0.00	0	0.00				
876	0.00	0	0.00				
878	0.00	0	0.00				
879	0.00	0	0.00				
880	0.00	0	0.00				
881	0.00	0	0.00				
885	0.00	0	0.00				
886	0.00	0	0.00				
887	0.00	0	0.00				
889	0.00	0	0.00				
890	0.00	0	0.00				
892	0.00	0	0.00				
893	0.00	0	0.00				
894	0.00	0	0.00				
902	0.00	0	0.00				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	0.00	0	0.00				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	0.00	0	0.00				
921	0.00	0	0.00				
923	0.00	0	0.00				
924	145,589.04	0.052160542	11,912.73				
925	2,645,582.86	0.947839458	216,473.04				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	0.00	0	0.00				
931	0.00	0	0.00				
<b>Total</b>	<b>2,791,171.90</b>	<b>1.000000000</b>	<b>228,385.77</b>				
<b>Per F. S.</b>	<b>2,791,171.90</b>						
<b>Difference</b>	<b>0.00</b>						

Employee Expenses 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	FTY		FFRY		Total O&M Expense Adjustment
				Exhibit No. 4 Adjustment	Exhibit No. 104 Adjustment	Exhibit No. 104 Adjustment	Exhibit No. 104 Adjustment	
807	0.00	0	0.00		32,087.92		27,558.49	59,646.41
816	0.00	0	0.00					
817	0.00	0	0.00					
818	1,008.03	0.000581173	34.88					
820	0.00	0	0.00					
821	0.00	0	0.00					
823	0.00	0	0.00					
825	0.00	0	0.00					
832	0.00	0	0.00					
834	0.00	0	0.00					
836	0.00	0	0.00					
870	178,710.16	0.103034149	6,145.62					
871	0.00	0	0.00					
874	439,336.62	0.253296593	15,108.23					
875	16,383.62	0.009445887	563.41					
876	9.66	0.000005589	0.33					
878	28,347.80	0.016343735	974.85					
879	19,356.09	0.011159624	665.63					
880	172,557.36	0.099486793	5,934.03					
881	0.00	0	0.00					
885	3,941.86	0.002272653	135.58					
886	0.00	0	0.00					
887	6,643.99	0.003830548	228.48					
889	212.45	0.000122487	7.31					
890	9.66	0.000005589	0.33					
892	938.15	0.000540884	32.26					
893	0.00	0	0.00					
894	0.00	0	0.00					
902	20,217.35	0.011656178	695.25					
903	364.99	0.000210433	12.55					
903	0.00	0	0.00					
903	203.33	0.000117229	6.99					
903	0.00	0	0.00					
904	0.00	0	0.00					
905	0.00	0	0.00					
907	0.00	0	0.00					
908	16,631.02	0.009588503	571.92					
909	0.00	0	0.00					
910	0.00	0	0.00					
912	0.00	0	0.00					
913	0.00	0	0.00					
920	14,598.66	0.00841676	502.03					
921	815,004.25	0.469885253	28,026.97					
923	0.00	0	0.00					
924	0.00	0	0.00					
925	0.00	0	0.00					
926	0.00	0	0.00					
928	0.00	0	0.00					
930	0.00	0	0.00					
931	0.00	0	0.00					
<b>Total</b>	<b>1,734,475.05</b>	<b>1.000000000</b>	<b>59,646.41</b>					
<b>Adjusted</b>	<b>1,734,475.05</b>							
<b>Difference</b>	<b>0.00</b>							
<b>Per F. S.</b>	<b>1,744,182.05</b>							
921	546.00		Rate Case Expense					
870	945.00		Charitable Contributions					
874	6.00		Charitable Contributions					
878	6.00		Charitable Contributions					
879	5.00		Charitable Contributions					
880	300.00		Charitable Contributions					
921	7,899.00		Charitable Contributions					
<b>Sub Total</b>	<b>9,181.00</b>							
<b>Total</b>	<b>1,734,475.05</b>							

Company Memberships 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00		0	0.00	(12,229.00)	4,702.11	4,038.37
816	0.00		0	0.00			
817	0.00		0	0.00			
818	0.00		0	0.00			
820	0.00		0	0.00			
821	0.00		0	0.00			
823	0.00		0	0.00			
825	0.00		0	0.00			
832	0.00		0	0.00			
834	0.00		0	0.00			
836	0.00		0	0.00			
870	54.28	0.00020376	(0.71)				
871	0.00		0	0.00			
874	0.00		0	0.00			
875	0.00		0	0.00			
876	0.00		0	0.00			
878	0.00		0	0.00			
879	0.00		0	0.00			
880	0.00		0	0.00			
881	0.00		0	0.00			
885	0.00		0	0.00			
886	0.00		0	0.00			
887	0.00		0	0.00			
889	0.00		0	0.00			
890	0.00		0	0.00			
892	0.00		0	0.00			
893	0.00		0	0.00			
894	0.00		0	0.00			
902	0.00		0	0.00			
903	0.00		0	0.00			
904	0.00		0	0.00			
905	0.00		0	0.00			
907	0.00		0	0.00			
908	0.00		0	0.00			
909	0.00		0	0.00			
910	0.00		0	0.00			
912	0.00		0	0.00			
913	0.00		0	0.00			
920	0.00		0	0.00			
921	110,330.67	0.414167568	(1,444.83)				
923	0.00		0	0.00			
924	0.00		0	0.00			
925	0.00		0	0.00			
926	0.00		0	0.00			
928	0.00		0	0.00			
930	156,006.43	0.585628672	(2,042.98)				
931	0.00		0	0.00			
Total	266,391.38	1.000000000	(3,488.52)				
Per F. S.	266,391.38						
Difference	0.00						

Fuel Used in Company Operations 06/30/11 - 05/31/12

Accl. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00	0	0.00	(319,883.00)	8,028.89	6,895.56	(304,958.55)
816	0.00	0	0.00				
817	0.00	0	0.00				
818	5,550.29	0.007362323	(2,245.20)				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	3,448.60	0.004574483	(1,395.03)				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	2,333.08	0.003094773	(943.78)				
871	0.00	0	0.00				
874	0.00	0	0.00				
875	55,799.39	0.074016514	(22,571.97)				
876	0.00	0	0.00				
878	0.00	0	0.00				
879	33.25	0.000044105	(13.45)				
880	360,737.72	0.478509687	(145,925.62)				
881	0.00	0	0.00				
885	4.83	0.000006407	(1.95)				
886	3,045.69	0.004040033	(1,232.04)				
887	25,565.87	0.033912496	(10,341.91)				
889	0.00	0	0.00				
890	0.00	0	0.00				
892	9.14	0.000012124	(3.70)				
893	0.00	0	0.00				
894	0.00	0	0.00				
902	119.17	0.000158076	(48.21)				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	0.00	0	0.00				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	0.00	0	0.00				
921	297,230.54	0.394268979	(120,235.70)				
923	0.00	0	0.00				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	0.00	0	0.00				
931	0.00	0	0.00				
Total	753,877.57	1.000000000	(304,958.55)				
Per Books	753,877.57						
Difference	0.00						

Advertising 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0.00	0	0.00	(150,116.00)	2,860.56	2,456.77	(144,798.67)
816	0.00	0	0.00				
817	0.00	0	0.00				
818	0.00	0	0.00				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	0.00	0	0.00				
871	0.00	0	0.00				
874	0.00	0	0.00				
875	0.00	0	0.00				
876	0.00	0	0.00				
878	0.00	0	0.00				
879	0.00	0	0.00				
880	0.00	0	0.00				
881	0.00	0	0.00				
885	0.00	0	0.00				
886	0.00	0	0.00				
887	0.00	0	0.00				
889	0.00	0	0.00				
890	0.00	0	0.00				
892	0.00	0	0.00				
893	0.00	0	0.00				
894	0.00	0	0.00				
902	0.00	0	0.00				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	0.00	0	0.00				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	0.00	0	0.00				
921	0.00	0	0.00				
923	126,807.14	0.416114648	(60,252.85)				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	177,933.73	0.583885352	(84,545.82)				
931	0.00	0	0.00				
<b>Total</b>	<b>304,740.87</b>	<b>1.000000000</b>	<b>(144,798.67)</b>				
Advertising	178,706.94						
Bill Inserts	126,033.93						
<b>Total</b>	<b>304,740.87</b>						
Difference	0.00						

Other O&M Expense 06/30/11 - 05/31/12

Acct. No.	Per Books	Per Books	Per Books	Per Books	Total O&M Expense	Percentage	O&M Expense Allocated	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
		Misc & Other Expenses	Misc Revenue Adj.	Materials & Supplies							
	<u>Clearing Accts</u>										
807	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	103,498.21	88,888.74	192,386.95
816	689.94	0.00	0.00	0.00	689.94	0.000056102	10.79				
817	2,700.02	0.00	0.00	0.00	2,700.02	0.000219552	42.24				
818	11,720.03	0.00	0.00	27,699.55	39,419.58	0.003205404	616.68				
820	415.53	0.00	0.00	0.00	415.53	0.000033789	6.50				
821	295.34	0.00	0.00	0.00	295.34	0.000024016	4.62				
823	0.00	0.00	0.00	0.00	0.00	0	0.00				
825	0.00	0.00	0.00	0.00	0.00	0	0.00				
832	746.71	0.00	0.00	0.00	746.71	0.000060719	11.68				
834	107.19	0.00	0.00	0.00	107.19	0.000008716	1.68				
836	700.75	0.00	0.00	0.00	700.75	0.000056982	10.96				
870	103,739.81	33,910.05	0.00	8,202.86	145,852.72	0.011860017	2,281.71				
871	27,868.25	0.00	0.00	0.00	27,868.25	0.002266107	435.97				
874	1,323,689.67	21,328.26	0.00	572,716.49	1,917,734.42	0.155940617	30,000.94				
875	83,658.21	873.81	0.00	14,748.26	99,280.28	0.008072978	1,553.14				
876	43,290.38	0.00	0.00	4,012.82	47,303.20	0.003846461	740.01				
878	395,214.60	1,478.65	0.00	49,828.17	446,521.42	0.036308899	6,985.36				
879	760,285.10	436.23	0.00	36,042.89	786,764.22	0.06397575	12,308.10				
880	781,080.97	0.00	0.00	64,311.23	845,392.20	0.066743085	13,225.27				
881	0.00	0.00	0.00	0.00	0.00	0	0.00				
885	1,579.60	97.07	0.00	568.14	2,244.81	0.000182537	35.12				
886	1,906.11	0.00	73.30	1,165.10	3,144.51	0.000255696	49.19				
887	917,392.52	288,085.09	0.00	892,369.31	2,097,836.92	0.170685657	32,818.45				
889	86,655.90	432.00	0.00	47,975.37	134,463.27	0.010933884	2,103.54				
890	16,086.13	0.00	0.00	15,705.77	30,791.90	0.002503844	481.71				
892	285,703.13	55,715.20	0.00	54,185.25	395,603.58	0.032168514	6,188.80				
893	11,392.00	0.00	0.00	176,142.35	187,534.35	0.01524938	2,933.78				
	80,345.17	231.15	0.00	153,838.99	234,415.31	0.019061486	3,667.18				
	90,373.10	0.00	0.00	1,737.20	92,110.30	0.007489951	1,440.97				
903	186,455.12	0.00	0.00	0.00	186,455.12	0.015161602	2,916.89				
903	0.00	0.00	0.00	0.00	0.00	0	0.00				
903	5,777.65	2,321.81	0.00	0.00	8,099.46	0.000658608	126.71				
903	0.00	0.00	0.00	1,834,659.01	1,834,659.01	0.149185338	28,701.31				
904	0.00	0.00	0.00	0.00	0.00	0	0.00				
905	0.00	3,770.40	0.00	0.00	3,770.40	0.00030669	58.98				
907	0.00	0.00	0.00	0.00	0.00	0	0.00				
908	0.00	320,613.61	0.00	5,025.46	325,639.07	0.026479348	5,094.28				
908	0.00	0.00	0.00	0.00	0.00	0	0.00				
909	0.00	0.00	0.00	0.00	0.00	0	0.00				
910	0.00	0.00	0.00	0.00	0.00	0	0.00				
912	0.00	0.00	0.00	0.00	0.00	0	0.00				
913	0.00	0.00	0.00	0.00	0.00	0	0.00				
920	0.00	0.00	0.00	0.00	0.00	0	0.00				
921	0.00	114,390.17	0.00	184,016.59	298,406.76	0.024264952	4,668.26				
923	0.00	0.00	0.00	0.00	0.00	0	0.00				
924	0.00	0.00	0.00	0.00	0.00	0	0.00				
925	0.00	704,260.27	0.00	0.00	704,260.27	0.067286939	11,017.41				
926	0.00	0.00	0.00	0.00	0.00	0	0.00				
928	0.00	1,396,623.86	0.00	0.00	1,396,623.86	0.1136665	21,848.71				
930	0.00	0.00	0.00	0.00	0.00	0	0.00				
931	0.00	0.00	0.00	0.00	0.00	0	0.00				
<b>Total</b>	<b>5,208,868.93</b>	<b>2,944,567.63</b>	<b>73.30</b>	<b>4,144,340.81</b>	<b>12,297,850.67</b>	<b>1.000000000</b>	<b>192,386.95</b>				

Lobbying Expense 06/30/11 - 05/31/12

Acct. No.	<u>Per Books</u>	<u>Percentage</u>	<u>O&amp;M Expense</u>	<u>Exhibit No. 4 Adjustment</u>	<u>FTY Exhibit No. 104 Adjustment</u>	<u>FFRY Exhibit No. 104 Adjustment</u>	<u>Total O&amp;M Expense Adjustment</u>
807	0.00	0	0.00	(129,056.00)	(2,387.54)	(2,050.52)	(133,494.06)
816	0.00	0	0.00				
817	0.00	0	0.00				
818	0.00	0	0.00				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	0.00	0	0.00				
871	0.00	0	0.00				
874	0.00	0	0.00				
875	0.00	0	0.00				
876	0.00	0	0.00				
878	0.00	0	0.00				
879	0.00	0	0.00				
880	0.00	0	0.00				
881	0.00	0	0.00				
885	0.00	0	0.00				
886	0.00	0	0.00				
887	0.00	0	0.00				
889	0.00	0	0.00				
890	0.00	0	0.00				
892	0.00	0	0.00				
893	0.00	0	0.00				
894	0.00	0	0.00				
902	0.00	0	0.00				
903	0.00	0	0.00				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	0.00	0	0.00				
909	0.00	0	0.00				
910	0.00	0	0.00				
912	0.00	0	0.00				
913	0.00	0	0.00				
920	0.00	0	0.00				
921	14,615.00	0.113245413	(15,117.59)				
923	76,098.00	0.589651004	(78,714.91)				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	38,343.00	0.297103583	(39,661.56)				
931	0.00	0	0.00				
Total	129,056.00	1.000000000	(133,494.06)				
Per F. S.	129,056.00						
Difference	0.00						

System Services 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	1,350,432.13	0.034447195	150,999.28	618,293.00	2,415,437.00	1,349,770.00	4,383,500.00
816	0.00	0	0.00				
817	0.00	0	0.00				
818	0.00	0	0.00				
820	0.00	0	0.00				
821	0.00	0	0.00				
823	0.00	0	0.00				
825	0.00	0	0.00				
832	0.00	0	0.00				
834	0.00	0	0.00				
836	0.00	0	0.00				
870	1,833,871.85	0.046778908	205,055.34				
871	0.00	0	0.00				
874	36,417.61	0.00092895	4,072.05				
875	0.00	0	0.00				
876	0.00	0	0.00				
878	0.00	0	0.00				
879	20,199.13	0.000515245	2,258.58				
880	0.00	0	0.00				
881	0.00	0	0.00				
885	82.92	0.000002115	9.27				
886	0.00	0	0.00				
887	71,200.54	0.001816203	7,961.33				
889	0.00	0	0.00				
890	19,351.14	0.000493614	2,163.76				
892	27,543.26	0.000702581	3,079.76				
893	42,430.57	0.001082331	4,744.40				
894	120,588.41	0.003076002	13,483.65				
902	0.00	0	0.00				
903	0.00	0	0.00				
903	0.00	0	0.00				
903	0.00	0	0.00				
903	5,726,010.04	0.146060641	640,256.82				
904	0.00	0	0.00				
905	0.00	0	0.00				
907	0.00	0	0.00				
908	99,333.64	0.00253383	11,107.04				
909	34,348.39	0.000876168	3,840.68				
910	1,157,752.37	0.029532266	129,454.69				
912	585,453.93	0.01493392	65,462.84				
913	115,904.77	0.002956531	12,959.95				
920	105.90	0.000002701	11.84				
921	0.00	0	0.00				
923	27,961,937.20	0.713260799	3,126,578.71				
924	0.00	0	0.00				
925	0.00	0	0.00				
926	0.00	0	0.00				
928	0.00	0	0.00				
930	0.00	0	0.00				
931	0.00	0	0.00				
<b>Total</b>	<b>39,202,963.80</b>	<b>1.000000000</b>	<b>4,383,500.00</b>				
Per F. S.	39,202,963.80						
Difference	0.00						
Per F. S.	39,215,718.09						
923	12,754.29						Rate Case Expense
<b>Total</b>	<b>39,202,963.80</b>						

Rate Case Expense Normalization 06/30/11 - 05/31/12

Acct. No.	Per Books	Percentage	O&M Expense	Exhibit No. 4 Adjustment	FTY Exhibit No. 104 Adjustment	FFRY Exhibit No. 104 Adjustment	Total O&M Expense Adjustment
807	0	0	0.00	0.00	522,886.00	0.00	522,886.00
816	0	0	0.00				
817	0	0	0.00				
818	0	0	0.00				
820	0	0	0.00				
821	0	0	0.00				
823	0	0	0.00				
825	0	0	0.00				
832	0	0	0.00				
834	0	0	0.00				
836	0	0	0.00				
870	0	0	0.00				
871	0	0	0.00				
874	0	0	0.00				
875	0	0	0.00				
876	0	0	0.00				
878	0	0	0.00				
879	0	0	0.00				
880	0	0	0.00				
881	0	0	0.00				
885	0	0	0.00				
886	0	0	0.00				
887	0	0	0.00				
889	0	0	0.00				
890	0	0	0.00				
892	0	0	0.00				
893	0	0	0.00				
894	0	0	0.00				
902	0	0	0.00				
903	0	0	0.00				
904	0	0	0.00				
905	0	0	0.00				
907	0	0	0.00				
908	0	0	0.00				
909	0	0	0.00				
910	0	0	0.00				
912	0	0	0.00				
913	0	0	0.00				
920	0	0	0.00				
921	886	0.00159328	833.10				
923	555,494	0.99840672	522,052.90				
924	0	0	0.00				
925	0	0	0.00				
926	0	0	0.00				
928	0	0	0.00				
930	0	0	0.00				
931	0	0	0.00				
<b>Total</b>	<b>556,380.71</b>	<b>1.000000000</b>	<b>522,886.00</b>				
Rate Case Exp.	<u>556,380.71</u>						
Difference	0.00						

Columbia Gas of Pennsylvania, Inc.  
R-2012-2321748  
Master Code Summation Statistics  
As of May, 2012

Question No. GASCOS-19  
Respondent: J. E. Skirtich  
Attachment 3  
1 of 2

COSS CLASS	Duplicate Services Records			COSS CLASS	Duplicate Services Records		
	Under 3" (1)	+ (2)	Total (3 = 1 -2)		3" & Over (4)	+ (5)	Total (6 = 4 -5)
RSS	2,692	642	2,050	RSS	3	3	0
	19	11	8		192	102	90
	304,749	28,796	275,953				
	12	2	10				
RSS	<u>307,472</u>	<u>29,451</u>	<u>278,021</u>	RSS	<u>195</u>	<u>105</u>	<u>90</u>
SGSS	2	0	2	SGSS	6	1	5
	15	2	13		254	88	166
	1	1	0		268	18	250
	112	30	82		6	1	5
	26,808	6,184	20,622		14	0	14
	4,070	291	3,779				
	12	0	12				
	41	0	41				
	1	0	1				
SGSS	<u>31,060</u>	<u>6,508</u>	<u>24,552</u>	SGSS	<u>548</u>	<u>108</u>	<u>440</u>
NSS	5	0	5	NSS	3	0	3
	2	0	2		2	0	2
	1	0	1		1	0	1
	2	1	1		2	0	2
	1	0	1		1	0	1
	1	0	1				
	3	0	3				
NSS	<u>15</u>	<u>1</u>	<u>14</u>	NSS	<u>9</u>	<u>0</u>	<u>9</u>
LGSS	48	1	47	LGSS	13	1	12
	74	3	71		29	5	24
	3	0	3		1	0	1
	65	3	62		45	2	43
	3	1	2				
	5	0	5				
	4	0	4				
	3	0	3				
	1	0	1				
LGSS	<u>206</u>	<u>8</u>	<u>198</u>	LGSS	<u>88</u>	<u>8</u>	<u>80</u>
CAP	24,053	2,562	21,491	CAP	11	3	8
CAP	<u>24,053</u>	<u>2,562</u>	<u>21,491</u>	CAP	<u>11</u>	<u>3</u>	<u>8</u>
RDS	97,676	4,926	92,750	RDS	41	20	21
	2	0	2				
RDS	<u>97,678</u>	<u>4,926</u>	<u>92,752</u>	RDS	<u>41</u>	<u>20</u>	<u>21</u>
SCD	8,860	1,546	7,314	SCD	68	25	43

Columbia Gas of Pennsylvania, Inc.  
R-2012-2321748  
Master Code Summation Statistics  
As of May, 2012

Question No. GASCOS-19  
Respondent: J. E. Skirtich  
Attachment 3  
2 of 2

COSS CLASS	Duplicate Services Records			COSS CLASS	Duplicate Services Records		
	Under 3" (1)	+ (2)	Total (3 = 1 -2)		3" & Over (4)	+ (5)	Total (6 = 4 -5)
	410	35	375		15	3	12
SCD	9,270	1,581	7,689	SCD	83	28	55
SGDS	592	81	511	SGDS	20	7	13
	1,873	105	1,768		241	2	239
	9	0	9		1	0	1
	45	0	45		7	0	7
					11	0	11
SGDS	2,519	186	2,333	SGDS	280	9	271
SDS	172	8	164	SDS	116	2	114
	77	0	77		56	1	55
SDS	249	8	241	SDS	172	3	169
LDS	9	0	9	LDS	8	0	8
	68	6	62		98	7	91
	5	2	3		3	0	3
	3	2	1				
LDS	85	10	75	LDS	109	7	102
MLDSI	3	0	3	MLDSI	11	2	9
	8	0	8		1	0	1
MLDSI	11	0	11	MLDSI	12	2	10
MLDSII	0	0	0	MLDSII	0	0	0
RDGSS	0	0	0	RDGDS	0	0	0
RDGDS	11	0	11	RDGSS	50	0	50
TOTALS	472,629	45,241	427,388		1,598	293	1,305
TOTAL	474,227	45,534	428,693				

Columbia Gas of Pennsylvania, Inc.  
R-2012-2321748  
Account 381 - Meters  
As of May, 2012

Question No. GAS-OS-19  
Respondent: J. E. Skirtich  
Attachment 4  
1 of 17

Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
R	0-500	0	0.00	0	0.00	0	0.00	0	0.00
RS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	0	0.00	0	0.00	0	0.00
CS	0-500	0	0.00	1	47.68	0	0.00	1	47.68
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	1	47.68	0	0.00	1	47.68
LG1	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LGS	501-1000	0	0.00	9	4,241.91	0	0.00	9	4,241.91
	1001-1500	0	0.00	6	1,390.80	0	0.00	6	1,390.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>35</u>	<u>14,862.19</u>	<u>13</u>	<u>5,520.24</u>	<u>48</u>	<u>20,382.43</u>
		0	0.00	50	20,494.90	13	5,520.24	63	26,015.14
LG2	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LGS	501-1000	0	0.00	43	20,266.91	0	0.00	43	20,266.91
	1001-1500	0	0.00	7	1,622.60	1	231.80	8	1,854.40
	Over 1500	<u>0</u>	<u>0.00</u>	<u>28</u>	<u>11,889.75</u>	<u>9</u>	<u>3,821.71</u>	<u>37</u>	<u>15,711.46</u>
		0	0.00	78	33,779.26	10	4,053.51	88	37,832.77
LG3	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>	<u>4</u>	<u>1,698.54</u>
		0	0.00	2	849.27	2	849.27	4	1,698.54
LG4	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>
		0	0.00	0	0.00	2	849.27	2	849.27

Columbia Gas of Pennsylvania, Inc.  
R-2012-2321748  
Account 381 - Meters  
As of May, 2012

Question No. GASCOS-19  
Respondent: J. E. Skirtich  
Attachment 4  
2 of 17

Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
LG5	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
LIS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	0	0.00	0	0.00	0	0.00
LOF	0-500	19	905.91	0	0.00	0	0.00	19	905.91
RS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		19	905.91	0	0.00	0	0.00	19	905.91
NSC	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
NSD	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	1	471.32	0	0.00	1	471.32
	1001-1500	0	0.00	1	231.80	0	0.00	1	231.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	3	1,127.75	0	0.00	3	1,127.75

Columbia Gas of Pennsylvania, Inc.  
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Question No. GAS-19  
Respondent: J. E. Skirtich  
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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
NSE	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	2	942.65	0	0.00	2	942.65
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	2	942.65	0	0.00	2	942.65
NSF	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
NSG	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>
		0	0.00	2	849.27	0	0.00	2	849.27
NSH	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>
		0	0.00	2	849.27	0	0.00	2	849.27
NSI	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
NSR	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>

Columbia Gas of Pennsylvania, Inc.  
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Question No. GASCOS-19  
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Attachment 4  
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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
		0	0.00	1	424.63	0	0.00	1	424.63
NST	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
NS2	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
NS5	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>
		0	0.00	2	849.27	0	0.00	2	849.27
RCC	0-500	20,808	992,118.62	0	0.00	0	0.00	20,808	992,118.62
RS	501-1000	6	2,827.94	0	0.00	0	0.00	6	2,827.94
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		20,814	994,946.56	0	0.00	0	0.00	20,814	994,946.56
RGC	0-500	4	190.72	0	0.00	0	0.00	4	190.72
RS	501-1000	2	942.65	0	0.00	0	0.00	2	942.65
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		6	1,133.37	0	0.00	0	0.00	6	1,133.37
RGS	0-500	13	619.84	0	0.00	0	0.00	13	619.84
RS	501-1000	10	4,713.23	0	0.00	0	0.00	10	4,713.23
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
	Over 1500	<u>0</u> 23	<u>0.00</u> 5,333.07	<u>0</u> 0	<u>0.00</u> 0.00	<u>0</u> 0	<u>0.00</u> 0.00	<u>0</u> 23	<u>0.00</u> 5,333.07
RS	0-500	269,091	12,830,170.65	4	190.72	3	143.04	269,098	12,830,504.41
RS	501-1000	578	272,424.97	1	471.32	0	0.00	579	272,896.29
	1001-1500	7	1,622.60	0	0.00	0	0.00	7	1,622.60
	Over 1500	<u>12</u>	<u>5,095.61</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>12</u>	<u>5,095.61</u>
		269,688	13,109,313.83	5	662.04	3	143.04	269,696	13,110,118.91
RTC	0-500	83,455	3,979,107.04	2	95.36	0	0.00	83,457	3,979,202.40
RDS	501-1000	171	80,596.31	0	0.00	0	0.00	171	80,596.31
	1001-1500	2	463.60	0	0.00	0	0.00	2	463.60
	Over 1500	<u>2</u>	<u>849.27</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>
		83,630	4,061,016.22	2	95.36	0	0.00	83,632	4,061,111.58
SCC	0-500	2	95.36	6,556	312,587.93	0	0.00	6,558	312,683.29
SGS	501-1000	0	0.00	924	435,502.89	0	0.00	924	435,502.89
	1001-1500	0	0.00	58	13,444.37	0	0.00	58	13,444.37
	Over 1500	<u>0</u>	<u>0.00</u>	<u>36</u>	<u>15,286.83</u>	<u>0</u>	<u>0.00</u>	<u>36</u>	<u>15,286.83</u>
		2	95.36	7,574	776,822.02	0	0.00	7,576	776,917.38
SC2	0-500	0	0.00	55	2,622.38	0	0.00	55	2,622.38
SGS	501-1000	0	0.00	190	89,551.46	0	0.00	190	89,551.46
	1001-1500	0	0.00	30	6,953.99	0	0.00	30	6,953.99
	Over 1500	<u>0</u>	<u>0.00</u>	<u>81</u>	<u>34,395.36</u>	<u>0</u>	<u>0.00</u>	<u>81</u>	<u>34,395.36</u>
		0	0.00	356	133,523.19	0	0.00	356	133,523.19
SGS	0-500	10	476.80	19,477	928,656.97	2	95.36	19,489	929,229.13
SGS	501-1000	0	0.00	3,246	1,529,916.00	3	1,413.97	3,249	1,531,329.97
	1001-1500	0	0.00	215	49,836.90	3	695.40	218	50,532.30
	Over 1500	<u>1</u>	<u>424.63</u>	<u>289</u>	<u>122,719.25</u>	<u>5</u>	<u>2,123.17</u>	<u>295</u>	<u>125,267.05</u>
		11	901.43	23,227	2,631,129.12	13	4,327.90	23,251	2,636,358.45
SGT	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>
		0	0.00	2	849.27	0	0.00	2	849.27
SG2	0-500	0	0.00	425	20,263.86	5	238.40	430	20,502.26
SGS	501-1000	0	0.00	1,845	869,591.81	3	1,413.97	1,848	871,005.78
	1001-1500	0	0.00	333	77,189.24	12	2,781.59	345	79,970.83
	Over 1500	<u>0</u>	<u>0.00</u>	<u>947</u>	<u>402,128.46</u>	<u>41</u>	<u>17,410.00</u>	<u>988</u>	<u>419,538.46</u>
		0	0.00	3,550	1,369,173.37	61	21,843.96	3,611	1,391,017.33
SG3	0-500	0	0.00	0	0.00	1	47.68	1	47.68
SGS	501-1000	0	0.00	0	0.00	4	1,885.29	4	1,885.29
	1001-1500	0	0.00	0	0.00	2	463.60	2	463.60
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>10</u>	<u>4,246.34</u>	<u>10</u>	<u>4,246.34</u>
		0	0.00	0	0.00	17	6,642.91	17	6,642.91
SG4	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGS	501-1000	0	0.00	0	0.00	9	4,241.91	9	4,241.91
	1001-1500	0	0.00	0	0.00	1	231.80	1	231.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>35</u>	<u>14,862.19</u>	<u>35</u>	<u>14,862.19</u>
		0	0.00	0	0.00	45	19,335.90	45	19,335.90
SIS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	1	231.80	0	0.00	1	231.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>3</u>	<u>1,273.90</u>	<u>0</u>	<u>0.00</u>	<u>3</u>	<u>1,273.90</u>
		0	0.00	4	1,505.70	0	0.00	4	1,505.70
S2I	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGDS	501-1000	0	0.00	1	471.32	0	0.00	1	471.32
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	1	471.32	0	0.00	1	471.32
TAG1	0-500	0	0.00	19	905.91	0	0.00	19	905.91

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
SGDS	501-1000	0	0.00	38	17,910.29	0	0.00	38	17,910.29
	1001-1500	0	0.00	2	463.60	0	0.00	2	463.60
	Over 1500	<u>0</u>	<u>0.00</u>	<u>3</u>	<u>1,273.90</u>	<u>0</u>	<u>0.00</u>	<u>3</u>	<u>1,273.90</u>
		0	0.00	62	20,553.70	0	0.00	62	20,553.70
TAG2	0-500	0	0.00	26	1,239.67	0	0.00	26	1,239.67
SGDS	501-1000	0	0.00	88	41,476.47	0	0.00	88	41,476.47
	1001-1500	0	0.00	28	6,490.39	0	0.00	28	6,490.39
	Over 1500	<u>0</u>	<u>0.00</u>	<u>129</u>	<u>54,777.79</u>	<u>0</u>	<u>0.00</u>	<u>129</u>	<u>54,777.79</u>
		0	0.00	271	103,984.32	0	0.00	271	103,984.32
TAG5	0-500	1	47.68	284	13,541.03	0	0.00	285	13,588.71
SGDS	501-1000	0	0.00	164	77,297.05	2	942.65	166	78,239.70
	1001-1500	0	0.00	18	4,172.39	1	231.80	19	4,404.19
	Over 1500	<u>0</u>	<u>0.00</u>	<u>24</u>	<u>10,191.22</u>	<u>9</u>	<u>3,821.71</u>	<u>33</u>	<u>14,012.93</u>
		1	47.68	490	105,201.69	12	4,996.16	503	110,245.53
TAG6	0-500	0	0.00	48	2,288.62	1	47.68	49	2,336.30
SGDS	501-1000	0	0.00	405	190,886.01	5	2,356.62	410	193,242.63
	1001-1500	0	0.00	113	26,193.35	4	927.20	117	27,120.55
	Over 1500	<u>0</u>	<u>0.00</u>	<u>703</u>	<u>298,517.75</u>	<u>15</u>	<u>6,369.51</u>	<u>718</u>	<u>304,887.26</u>
		0	0.00	1,269	517,885.73	25	9,701.01	1,294	527,586.74
TIB	0-500	0	0.00	3	143.04	5	238.40	8	381.44
SDS	501-1000	0	0.00	11	5,184.56	1	471.32	12	5,655.88
	1001-1500	0	0.00	4	927.20	1	231.80	5	1,159.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>146</u>	<u>61,996.57</u>	<u>90</u>	<u>38,217.07</u>	<u>236</u>	<u>100,213.64</u>
		0	0.00	164	68,251.37	97	39,158.59	261	107,409.96
TIB-EFACT	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>
		0	0.00	2	849.27	0	0.00	2	849.27

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
TIF	0-500	0	0.00	14	667.52	1	47.68	15	715.20
LDS	501-1000	0	0.00	7	3,299.26	0	0.00	7	3,299.26
	1001-1500	0	0.00	5	1,159.00	0	0.00	5	1,159.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>29</u>	<u>12,314.39</u>	<u>21</u>	<u>8,917.32</u>	<u>50</u>	<u>21,231.71</u>
		0	0.00	55	17,440.17	22	8,965.00	77	26,405.17
TIF-EFACT	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
TIG	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	1	231.80	1	231.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>4</u>	<u>1,698.54</u>	<u>6</u>	<u>2,547.80</u>	<u>10</u>	<u>4,246.34</u>
		0	0.00	4	1,698.54	7	2,779.60	11	4,478.14
TI4	0-500	0	0.00	4	190.72	2	95.36	6	286.08
SDS	501-1000	0	0.00	10	4,713.23	0	0.00	10	4,713.23
	1001-1500	0	0.00	3	695.40	0	0.00	3	695.40
	Over 1500	<u>0</u>	<u>0.00</u>	<u>115</u>	<u>48,832.92</u>	<u>14</u>	<u>5,944.88</u>	<u>129</u>	<u>54,777.80</u>
		0	0.00	132	54,432.27	16	6,040.24	148	60,472.51
TI8	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	1	471.32	1	471.32
	1001-1500	0	0.00	0	0.00	1	231.80	1	231.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>10</u>	<u>4,246.34</u>	<u>25</u>	<u>10,615.85</u>	<u>35</u>	<u>14,862.19</u>
		0	0.00	10	4,246.34	27	11,318.97	37	15,565.31
TMA	0-500	0	0.00	0	0.00	0	0.00	0	0.00
MLDS II	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
TM1 MLDS I	0-500	0	0.00	1	47.68	0	0.00	1	47.68
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	1	231.80	1	231.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	47.68	2	656.43	3	704.11
801 LDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
802 MLDS II	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>
		0	0.00	0	0.00	2	849.27	2	849.27
803 LDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
805 LDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
806 SDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	1	471.32	0	0.00	1	471.32
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
		0	0.00	3	1,320.59	0	0.00	3	1,320.59
807	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
808	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>
		0	0.00	0	0.00	2	849.27	2	849.27
809	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>
		0	0.00	0	0.00	2	849.27	2	849.27
810	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
812	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
815	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
816	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
817	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
819	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
820	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
821	0-500	0	0.00	0	0.00	0	0.00	0	0.00
MLDS II	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
830	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	1	471.32	1	471.32

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	2	895.95	2	895.95
831 MLDS I	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
833 LDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
838 SDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
839 SDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
840 LDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>
		0	0.00	0	0.00	2	849.27	2	849.27
841	0-500	0	0.00	0	0.00	0	0.00	0	0.00

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
SGDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
845	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
846	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>
		0	0.00	0	0.00	2	849.27	2	849.27
847	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
848	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
850	0-500	0	0.00	0	0.00	0	0.00	0	0.00
MLDS II	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
852	0-500	0	0.00	2	95.36	0	0.00	2	95.36
SDS	501-1000	0	0.00	3	1,413.97	0	0.00	3	1,413.97
	1001-1500	0	0.00	1	231.80	0	0.00	1	231.80
	Over 1500	<u>0</u>	<u>0.00</u>	<u>16</u>	<u>6,794.15</u>	<u>0</u>	<u>0.00</u>	<u>16</u>	<u>6,794.15</u>
		0	0.00	22	8,535.28	0	0.00	22	8,535.28
853	0-500	0	0.00	1	47.68	0	0.00	1	47.68
SDS	501-1000	0	0.00	7	3,299.26	0	0.00	7	3,299.26
	1001-1500	0	0.00	5	1,159.00	0	0.00	5	1,159.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	13	4,505.94	0	0.00	13	4,505.94
854	0-500	0	0.00	1	47.68	0	0.00	1	47.68
SDS	501-1000	0	0.00	2	942.65	0	0.00	2	942.65
	1001-1500	0	0.00	5	1,159.00	0	0.00	5	1,159.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>8</u>	<u>3,397.07</u>	<u>0</u>	<u>0.00</u>	<u>8</u>	<u>3,397.07</u>
		0	0.00	16	5,546.40	0	0.00	16	5,546.40
855	0-500	0	0.00	6	286.08	0	0.00	6	286.08
SGDS	501-1000	0	0.00	2	942.65	0	0.00	2	942.65
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	9	1,653.36	0	0.00	9	1,653.36
856	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
857	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
858 SDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
859 LDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
860 SGDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
861 SDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
862 SGDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	1	471.32	0	0.00	1	471.32
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	1	471.32	0	0.00	1	471.32
863 SGDS	0-500	0	0.00	0	0.00	0	0.00	0	0.00
	501-1000	0	0.00	1	471.32	0	0.00	1	471.32
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
		0	0.00	1	471.32	0	0.00	1	471.32
864	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGDS	501-1000	0	0.00	1	471.32	0	0.00	1	471.32
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	1	471.32	0	0.00	1	471.32
865	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>
		0	0.00	1	424.63	0	0.00	1	424.63
866	0-500	0	0.00	0	0.00	0	0.00	0	0.00
SGDS	501-1000	0	0.00	1	471.32	0	0.00	1	471.32
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>
		0	0.00	1	471.32	0	0.00	1	471.32
867	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>1</u>	<u>424.63</u>	<u>1</u>	<u>424.63</u>
		0	0.00	0	0.00	1	424.63	1	424.63
868	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	<u>0</u>	<u>0.00</u>	<u>0</u>	<u>0.00</u>	<u>2</u>	<u>849.27</u>	<u>2</u>	<u>849.27</u>
		0	0.00	0	0.00	2	849.27	2	849.27
872	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00

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Rate Code (1)	Size (CFH) (2)	Residential		Commercial		Industrial		Total	
		Qty (3)	Amount (A) (4)	Qty (5)	Amount (A) (6)	Qty (7)	Amount (A) (8)	Qty (9)	Amount (A) (10)
	Over 1500	0	0.00	1	424.63	0	0.00	1	424.63
		0	0.00	1	424.63	0	0.00	1	424.63
873	0-500	0	0.00	0	0.00	0	0.00	0	0.00
LDS	501-1000	0	0.00	0	0.00	0	0.00	0	0.00
	1001-1500	0	0.00	0	0.00	0	0.00	0	0.00
	Over 1500	0	0.00	0	0.00	1	424.63	1	424.63
		0	0.00	0	0.00	1	424.63	1	424.63
<b>TOTAL COMPANY</b>		<b>374.194</b>	<b>\$ 18,173,693.43</b>	<b>37.406</b>	<b>\$ 5,898,852.72</b>	<b>412</b>	<b>\$ 163,364.69</b>	<b>412.012</b>	<b>\$ 24,235,910.84</b>

(A) Amount = Quantity X Unit Price

(B) Unit Price = Total CPR Dollars / Total Quantities

0-500	20,541,928.50	430,832.00	47.67967212
501-1000	4,210,803.93	8,934.00	471.32347549
1001-1500	1,099,656.98	4,744.00	231.79953204
Over 1500	5,948,274.03	14,008.00	424.63406839
	31,800,663.44	458,518.00	

**CUSTOMER TOTALS**

<u>Line No.</u>	<u>Customer Number</u>	<u>Depreciation</u>		
		<u>Book Cost</u>	<u>Reserve</u>	<u>Expense</u>
		\$	\$	\$
1	1	63,398.89	12,047.55	2,396.48
2	2	3,030.87	442.30	114.57
3	3	0.00	0.00	0.00
4	4	1,948.48	1,207.44	41.67
5	5	114,961.17	71,184.36	2,835.84
6	6	55,662.28	40,531.99	1,206.60
7	7	42,549.23	37,356.53	882.72
8	8	19,388.19	7,449.94	726.56
9	9	79,305.54	52,493.50	1,589.34
10	TOTALS	380,244.65	222,713.61	9,793.78

**GENERAL ACCOUNT TOTALS**

	<u>General Account</u>	<u>Depreciation</u>		
		<u>Book Cost</u>	<u>Reserve</u>	<u>Expense</u>
		\$	\$	\$
11	374.40	2.56	1.25	0.04
12	374.50	1,195.25	663.60	15.90
13	376.00	98,880.89	58,001.98	1,641.43
14	376.30	118,511.04	96,966.24	2,500.58
15	378.20	1,178.47	869.69	28.89
16	380.00	37,630.04	21,868.61	963.32
17	385.00	122,846.40	44,342.24	4,643.62
18	385.10	0.00	0.00	0.00
19	TOTAL	380,244.65	222,713.61	9,793.78

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-20:

Please provide all workpapers, calculations and supporting documentation for the functionalization and classification performed for the Company's cost of service study.

Response:

Columbia Gas of Pennsylvania ("Company") follows the Federal Energy Regulatory Commission ("FERC") chart of accounts for accounting purposes. The FERC chart of account establishes specific functional accounts for natural gas companies, i.e. Other Gas Supply Expenses, Underground Storage Expense, Distribution Expense, Customer Accounts Expense, Customer Service & Information Expense, Sales Expense and Administrative and General Expenses. The Company's Cost of Service studies as provided in Exhibit No. 111 were prepared based on the Company's accounting records which functionalized and classified its costs consistent with the FERC chart of accounts. No specific work papers were prepared to functionalize and classify the Company's costs beyond the Company's accounting records.

Columbia Gas of Pennsylvania, Inc.

Standard Data Request

Cost of Service

Question No. COS-021:

If not provided elsewhere, please provide a detailed proof of revenues at both present and proposed rates.

Response:

Please see Exhibit No. 103, Pages 9 through 11.