

STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION

The Peoples Gas Light and Coke Company :
: No. 14-____
Proposed General Increase :
In Rates For Gas Service :

Direct Testimony of

KEVIN R. KUSE

Senior Load Forecaster
Integrus Business Support, LLC

On Behalf of
The Peoples Gas Light and Coke Company

TABLE OF CONTENTS

	<u>Page</u>
I. INTRODUCTION AND BACKGROUND	1
A. Identification of Witness.....	1
B. Purpose of Testimony and Summary of Conclusions.....	1
C. Background and Experience	2
II. GAS SALES FORECAST METHODOLOGY	3
A. Forecast of Customer Demand.....	3
B. Use-Per-Customer Equations.....	8
C. Number-of-Customers Equations	9
III. COMPUTATION OF REVENUES BASED ON FORECAST	12
IV. COMPARISON OF COMPARATIVE YEAR DEMAND AND FORECASTED DEMAND.....	16

1 **I. INTRODUCTION AND BACKGROUND**

2 **A. Identification of Witness**

3 **Q. Please state your name and business address.**

4 A. My name is Kevin R. Kuse. My business address is Integrys Energy Group, Inc.
5 (“Integrys”), 700 North Adams Street, P.O. Box 19001, Green Bay, WI 54307-9001.

6 **Q. By whom are you employed and in what capacity?**

7 A. I am a Senior Load Forecaster in the Budgets and Forecasts Department of Integrys
8 Business Support, LLC (“IBS”), a wholly-owned subsidiary of Integrys.

9 **Q. For whom are you providing testimony?**

10 A. I am providing testimony for The Peoples Gas Light and Coke Company (“Peoples Gas”
11 or “PGL”), which is a wholly-owned indirect subsidiary of Integrys.

12 **B. Purpose of Testimony and Summary of Conclusions**

13 **Q. Mr. Kuse, what is the purpose of your testimony?**

14 A. The purpose of my testimony is to present Peoples Gas’ customer demand forecast for the
15 2015 test year, and to explain how that forecast was derived. I will also compare
16 Peoples Gas’ forecasted 2015 test year demand to its actual weather normalized demand
17 from January 2013 to June 2013 and forecasted demand from July 2013 to December
18 2013 (hereinafter referred to as “comparative year 2013”). Based on its analyses, Peoples
19 Gas forecasts a 2015 total demand, including company use, of 160.8 billion cubic feet
20 (“Bcf”) of natural gas as compared to 168.4 Bcf in comparative year 2013, a decrease of
21 7.6 Bcf or about 4.5%.

22 **C. Background and Experience**

23 **Q. Please briefly outline your educational background.**

24 A. I hold a Bachelor of Arts Degree in Economics and a Master of Science Degree in
25 Administrative Science, both from the University of Wisconsin – Green Bay.

26 **Q. Please summarize your business experience.**

27 A. In February 1993, I was hired by St. Norbert College in De Pere, Wisconsin as the
28 Director of Research and Records in the Office of Institutional Advancement. In
29 September 1996, I was hired as a Business Evaluation Analyst by the Development
30 Division of the Oneida Indian Tribe of Wisconsin. In September 1999, I was hired by
31 Wisconsin Public Service Corporation, a wholly-owned subsidiary of Integrys, as a
32 Customer Research Analyst in the Market Research Department. From September 1999
33 to July 2007, I developed customer insights by gathering and interpreting data from
34 primary survey research and secondary data sources. During that period, I also
35 performed two short term assignments as the Leader of the Market Research department.
36 In July 2007, I became a Senior Load Forecaster in the Budgets and Forecasts
37 Department of IBS.

38 **Q. What are your current duties and responsibilities?**

39 A. As a Senior Load Forecaster, my duties include the performance of various aspects of
40 short-term and long-term electric and gas forecasts.

41 **Q. Have you previously testified before any regulatory agency?**

42 A. Yes, I have. I testified before the Illinois Commerce Commission (“Commission” or
43 “ICC”) in Docket Nos. 12-0511/12-0512 (cons.), and Docket Nos. 11-0280/11-0281

44 (cons.), which were Peoples Gas' last two general rate cases. I have also testified before
45 the Michigan Public Service Commission in Case No. U-16166, which was the 2011 test
46 year rate case of Upper Peninsula Power Company, another Integrys subsidiary.

47 **II. GAS SALES FORECAST METHODOLOGY**

48 **A. Forecast of Customer Demand**

49 **Q. In general, how did Peoples Gas forecast customer demand for the 2015 test year?**

50 A. Peoples Gas did so by performing regression analyses for each Service Classification
51 ("S.C.") to measure each customer segment's sensitivity to certain explanatory variables
52 (e.g., weather, price, estimated efficiency improvements, and socioeconomic trends) that
53 affect the segment's natural gas usage.

54 **Q. What are Peoples Gas' current Service Classifications?**

55 A. Peoples Gas' customers are currently divided among six Service Classifications. The
56 customers in S.C. No. 1 (Small Residential Service) and S.C. No. 2 (General Service) are
57 classified as "firm general." For test year 2015, Peoples Gas forecasts 828,602 customers
58 in S.C. No. 1 and S.C. No. 2. The 167 customers in S.C. No. 4 (Large Volume Demand
59 Service), S.C. No. 5 (Contract Service for Electric Generation), S.C. No. 7 (Contract
60 Service to Prevent Bypass) and S.C. No. 8 (Compressed Natural Gas Service) are
61 classified as "large volume customers."

62 **Q. How did Peoples Gas determine its forecasted total demand?**

63 A. Peoples Gas' forecasted total demand is comprised of forecasts of its large volume
64 customer demand and its firm general demand.

65 **Q. What methodology did Peoples Gas use to determine the large volume customer**
66 **demand forecast for the 2015 test year?**

67 A. There were a number of steps in the forecast process for large volume customer demand.
68 First, monthly demands for S.C. Nos. 4 through 8 were summed. Second, adjustments
69 were made to the demand totals based on customer movement between Service
70 Classifications. This ensured that the historical data and current large volume customer
71 demand were comparable. Finally, a regression analysis was performed to forecast the
72 long-term trend in large volume customer total demand.

73 **Q. What methodology did Peoples Gas use to determine the firm general demand**
74 **forecast for the 2015 test year?**

75 A. This analysis also had a number of steps. Demand was first divided into S.C. No. 1 and
76 S.C. No. 2 demand. Each of these two classifications was further divided into demand by
77 non-heating customers and demand by heating customers. Adjustments were then made
78 to demand based on customer movement between Service Classifications in order to
79 ensure that the historical data and current firm general customer demand were
80 comparable. Finally, demand was divided into number of customers and usage per
81 customer. This disaggregation of firm general demand provided the following eight
82 components, which were forecasted independently on a monthly basis:

- 83 1) Usage per non-heating S.C. No. 1 customer
- 84 2) Number of non-heating S.C. No. 1 customers
- 85 3) Usage per heating S.C. No. 1 customer
- 86 4) Number of heating S.C. No. 1 customers
- 87 5) Usage per non-heating S.C. No. 2 customer

- 88 6) Number of non-heating S.C. No. 2 customers
89 7) Usage per heating S.C. No. 2 customer
90 8) Number of heating S.C. No. 2 customers

91 The firm general demand was divided into these various components because various
92 economic, demographic and weather factors affect each component of firm general
93 demand differently. By examining each of the eight components, and relating them to
94 those factors, a greater understanding is gained of how these factors affect firm general
95 demand.

96 **Q. Can you explain the S.C. No. 1 Heating forecast model in more detail?**

97 A. Yes. The S.C. No. 1 Heating forecast uses two regression models, a number-of-
98 customers model and a use-per-customer model. Both are monthly models, and each was
99 run with historical monthly data from January 2004 and January 2003 respectively to
100 May 2013. The use-per-customer model is a regression using multiplicative variables
101 developed by Itron¹ representing Heating and Other gas usage. Itron calls this a
102 Statistically Adjusted End-Use (“SAE”) model. This model makes use of billing heating
103 degree days (“HDD”), appliance saturation and efficiencies, home size (people per
104 household), trends based on U.S. Energy Information Administration (“EIA”) data, real
105 personal income, and real price to the customer.

¹ Itron is a technology provider to energy and water industries worldwide that developed both the multiplicative variables and the SAE regression models in the forecast. Itron provides measurement and control technology, communications systems, software and professional services to nearly 8,000 utilities in more than 100 countries. The Itron Forecasting Group develops and supports MetrixND – Itron’s statistical forecasting software tool used for short-term and long-term energy and demand forecasting. Itron’s MetrixND has more than 700 users from 170 utilities and energy companies around the world.

106 The number-of-customers model is based on the trend in the number of customers
107 by S.C. and monthly binary variables. The total S.C. No. 1 Heating sales forecast is a
108 combination of the use-per-customer model and the number-of-customer forecasts.

109 **Q. Please explain in more detail how the SAE models are used in the use-per-customer**
110 **models.**

111 A. Using the S.C. No. 1 Heating forecast model as an example, the model design considers
112 billing sales, price, structural changes, and appliance saturation and efficiencies trends. It
113 then imposes a model structure through the SAE specification.

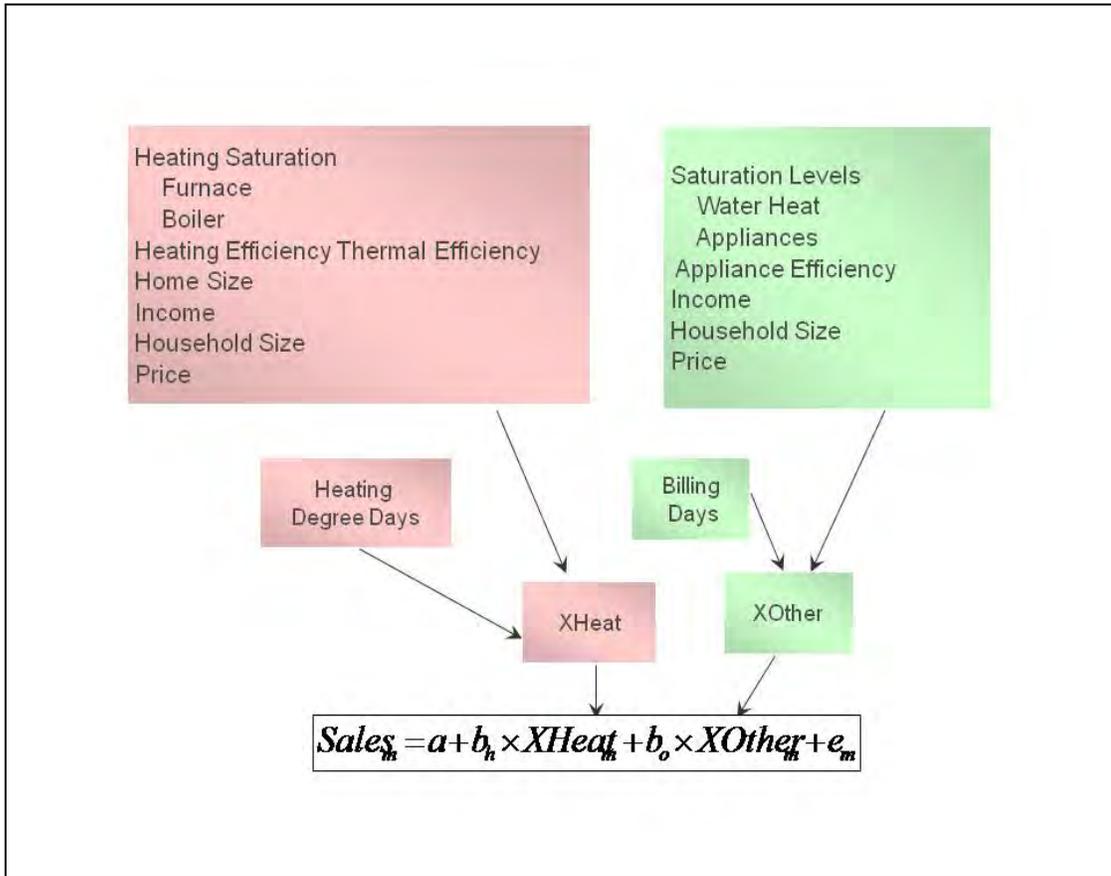
114 Instead of constructing a regression model with many explanatory variables, this
115 approach constructs a model with two high-level end-use variables: Heating and Other
116 Use. The model structure then embeds forecast drivers into these two constructed
117 variables. The forecast drivers include HDD, price, income, household size (people per
118 household), and end-use saturation and efficiency trends.

119 The estimated average use per customer regression model using the constructed
120 end-use variables is:

$$121 \text{AvgUse}_t = B_0 + B_1X\text{Heat}_t + B_2X\text{Other}_t + e_t$$

122 The SAE model structure incorporates elasticity of demand, which is customers'
123 behavior in response to changes in various explanatory variables, such as price, heating,
124 cooling, income, etc. Customer behavior is based on research performed by Itron. By
125 focusing on such customer behavior, Peoples Gas can capture the appropriate impacts of
126 changes in economic conditions and how they interrelate with other end-use variables.

127 The graphic below explains, in more detail, the economic and various end-use
 128 saturation and efficiency variables, developed from the EIA energy efficiency forecasts
 129 that make up the main explanatory variables:



130

131 The XHeat variable has two components:

132

$$XHeat_{y,m} = HeatIndex_y \times HeatUse_{y,m}$$

133 HeatIndex is expanded below:

134

$$HeatIndex_y = Structural Index_y \times \sum_{Type} Weight^{Type} \times \frac{\left(\frac{Sat_y^{Type}}{Eff_y^{Type}} \right)}{\left(\frac{Sat_{01}^{Type}}{Eff_{01}^{Type}} \right)}$$

135 HeatUse is expanded below:

136

$$HeatUse_{y,m} = \left(\frac{HDD_{y,m}}{HDD_{01}} \right) \times \left(\frac{HHSize_{y,m}}{HHSize_{01}} \right)^a \times \left(\frac{Income_{y,m}}{Income_{01}} \right)^b \times \left(\frac{Price_{y,m}}{Price_{01}} \right)^c$$

137 Factors impacting Heat Use or XHeat are:

- 138 1. Non-weather-sensitive end-use saturation and efficiency trends,
- 139 2. Number of heating degree days,
- 140 3. Household size and income, and
- 141 4. Prices.

142 **Q. Has Peoples Gas used this model in the past to forecast firm general demand?**

143 A. Yes, Peoples Gas has used this model in each of its last four rate cases.

144 **Q. How has the model performed historically?**

145 A. The model has performed well historically. The two types of equations – use per
146 customer and number of customers – have different characteristics and their statistical
147 reliability is quite high.

148 **B. Use-Per-Customer Equations**

149 **Q. How do you determine the statistical reliability of the use-per-customer equations?**

150 A. The statistical reliability of the use-per-customer equations is first measured with the
151 coefficient of determination, or R^2 . The R^2 measures the proportion or percentage of the
152 total variation in use per customer that is explained by the regression model. The
153 following table shows the R^2 for each equation along with the percentage of actual
154 demand in 2012. Approximately ninety-eight percent of the total variation in Peoples
155 Gas' use per customer is explained by the regression models.

PGL Use/Customer (S.C. Nos. 1-2) and Total Demand (S.C. Nos. 4-8)		
	Adjusted R-squared	Percentage of Demand
S.C. No. 1 Heating	99.7%	41.9%
S.C. No. 1 Non-heating	96.2%	0.6%
S.C. No. 2 Heating	99.1%	40.2%
S.C. No. 2 Non-heating	94.0%	1.5%
S.C. Nos. 4-8 (Total Demand)	93.7%	15.8%
Weighted Average	98.4%	100.0%

156

157 **C. Number-of-Customers Equations**

158 **Q. How do you determine the statistical reliability of the number-of-customers**
 159 **equations?**

160 **A.** The statistical reliability of the number-of-customers equations is first measured with the
 161 R^2 . The following table shows the R^2 for each equation along with the percentage of
 162 actual demand in 2012. Approximately ninety-nine percent of the total variation in
 163 Peoples Gas' number of customers is explained by the regression models.

PGL Number of Customers Equations		
	Adjusted R-squared	Percentage of Demand
S.C. No. 1 Heating	98.9%	41.9%
S.C. No. 1 Non-heating	99.9%	0.6%
S.C. No. 2 Heating	99.0%	40.2%
S.C. No. 2 Non-heating	99.5%	1.5%
S.C. Nos. 4-8	97.7%	15.8%
Weighted Average	98.8%	100.0%

164

165 **Q. What general assumptions were made in developing the total demand forecast?**

166 **A.** The following assumptions were made:

- 167 • For S.C. Nos. 1 and 2 Heating, normal weather based on the twelve-year period 2001-
168 2012 for Chicago, O’Hare weather station was used.² This equals 6,031 HDD for
169 non-leap years and 6,054 HDD for leap years.
- 170 • Economic information was from the June 2013 Moody’s Analytics forecast for
171 Peoples Gas.
- 172 • EIA forecasts of efficiency and saturation were provided by Itron.
- 173 • Price information was from NYMEX Short-Term Forecast dated June 13, 2013.

174 **Q. Based on these analyses, what level of customer demand does Peoples Gas forecast**
175 **for test year 2015?**

176 A. Peoples Gas forecasts firm general demand of 136.5 Bcf and large volume customer
177 demand of 23.5 Bcf, for a customer demand of approximately 160.0 Bcf in test year
178 2015.

179 **Q. Was the demand forecast further allocated?**

180 A. Yes. The six classifications from the forecast of annual firm general demand volumes
181 and customers were further divided into the following customer categories by month for
182 volume blocking and revenue forecasting purposes. This approach determined monthly
183 and annual volumes by Service Classification, revenue class (residential, commercial,
184 and industrial), heating / non-heating, and sales type (retail and transport). The
185 subgroups were:

² The HDD using a 12 year normal was required by the Commission’s Final Order in ICC Docket Nos. 07-0241/07-0242 (cons.). Peoples Gas used a 12-year normal in its three subsequent rate cases, and this has been uncontested.

Service Classification No. 1 Heating Forecast				Service Classification No. 1 Non-heating Forecast			
S.C. No. 1	Heating	Retail	Residential	S.C. No. 1	Non-heating	Retail	Residential
S.C. No. 1	Heating	Transport	Residential	S.C. No. 1	Non-heating	Transport	Residential
Service Classification No. 2 Heating Forecast				Service Classification No. 2 Non-heating Forecast			
S.C. No. 2	Heating	Retail	Residential	S.C. No. 2	Non-heating	Retail	Residential
S.C. No. 2	Heating	Transport	Residential	S.C. No. 2	Non-heating	Transport	Residential
S.C. No. 2	Heating	Retail	Commercial	S.C. No. 2	Non-heating	Retail	Commercial
S.C. No. 2	Heating	Transport	Commercial	S.C. No. 2	Non-heating	Transport	Commercial
S.C. No. 2	Heating	Retail	Industrial	S.C. No. 2	Non-heating	Retail	Industrial
S.C. No. 2	Heating	Transport	Industrial	S.C. No. 2	Non-heating	Transport	Industrial
Service Classification Nos. 4+ Forecast				Service Classification Nos. 4+ Forecast			
S.C. No. 4	Heating	Retail	Residential	S.C. No. 4	Non-Heating	Retail	Residential
S.C. No. 4	Heating	Transport	Residential	S.C. No. 4	Non-Heating	Transport	Residential
S.C. No. 4	Heating	Retail	Commercial	S.C. No. 4	Non-Heating	Retail	Commercial
S.C. No. 4	Heating	Transport	Commercial	S.C. No. 4	Non-Heating	Transport	Commercial
S.C. No. 4	Heating	Retail	Industrial	S.C. No. 4	Non-Heating	Retail	Industrial
S.C. No. 4	Heating	Transport	Industrial	S.C. No. 4	Non-Heating	Transport	Industrial
S.C. Nos. 5&7	Heating	Transport	Commercial	S.C. Nos. 5&7	Non-heating	Transport	Industrial
				S.C. No. 8	Non-heating	Retail	Commercial
				S.C. No. 8	Non-heating	Transport	Commercial

186

187 **Q. What was the basis of the allocation to the subgroups?**

188 A. The basis was historical sales by subgroup from 2012 actual sales volumes (“allocation
189 base period”). The sales forecast was allocated based on the allocation base period
190 percentages.

191 **Q. Were there any further allocations of the sales volume forecast?**

192 A. Yes. Sales volumes for S.C. Nos. 1 and 2 were allocated to the rate blocks (set amount or
193 block of usage) using the monthly ogive curves (cumulative line graphs) developed from
194 the billed frequency data for each of the customer classifications. These data were stored
195 in the Revenue Forecasting Model (“RFM”), which blocked each month’s volumes
196 individually for all S.C. No. 1 and S.C. No. 2 sub-groups by using the corresponding sub-
197 group and monthly ogive curves from the allocation base period.

198 **III. COMPUTATION OF REVENUES BASED ON FORECAST**

199 **Q. Did Peoples Gas use any billing determinants other than volumes for revenue**
200 **forecasting?**

201 A. Yes.

202 **Q. Please identify these other billing determinants and discuss how they were**
203 **determined.**

204 A. The other billing determinants are as follows:

- 205 • Billing Periods: Base time period (January through December 2012) ratio of the
206 number of billing periods to the number of customers × the forecasted number of
207 customers. S.C. No. 2 billing periods were further allocated to small, medium and
208 large meter classes based on the allocation of base time period's monthly meter
209 classes.
- 210 • Demand Volume: Analysis of recent months' demand volumes. S.C. No. 4 only.
- 211 • Standby Demand Volume: Most recent month's standby demand volume.
212 Transportation only.
- 213 • Standby Commodity Volume: Three year average of the monthly standby
214 commodity volume percentage times transportation volume forecast. Transportation
215 pool/contract only.
- 216 • Storage Gas Charge Volume: The storage gas charge monthly volume used in the
217 forecast was calculated by looking at the most recent storage gas charge volume
218 actuals.
- 219 • Storage Banking Charge Volume: Analysis of transportation customers' storage
220 capacity.

- 221 • Demand Devices: Most recent month's demand device units. S.C. No. 2
- 222 transportation only.
- 223 • Number of 2nd Pulse Units: Analysis of the most recent months' 2nd pulse units.
- 224 • Number of Transportation Contract Accounts: Most recent month's number of
- 225 transportation contract accounts. Transportation only.
- 226 • Number of Transportation Pool Accounts: Most recent month's number of
- 227 transportation pool accounts and adjusted monthly for changes in number of
- 228 transportation pool accounts. Transportation only.
- 229 • Number of Pools: Most recent month's number of pools. Transportation only.
- 230 • Number of Trades: Analysis of the base period trade count. Transportation
- 231 pool/contract only.
- 232 • Number of Supplier Billing Option Credit Units: Most recent two months' average.
- 233 • Storage and Balancing Volume: Contract volume. Transportation pool/contract only.

234 **Q. What was done next?**

235 A. Revenues were calculated in the RFM.

236 **Q. How does the RFM calculate revenues?**

237 A. The RFM applies applicable rates to each billing determinants to calculate various

238 revenues by month for all sub-groups. Specific revenue items, applicable billing

239 determinants and rates are as follows:

- 240 • Customer Charge = number of billing periods × applicable customer charge rates.
- 241 • Demand Charge = demand volumes × demand rate.
- 242 • Storage Service Charge = retail sales volumes × storage service charge rate.

- 243 • Storage Banking Charge = transportation storage banking charge volume × storage
244 banking charge rate.
- 245 • Demand Device Charge = number of demand devices × demand device rate.
- 246 • Distribution Charge = volumes in each block × applicable distribution charge rates.
- 247 • Volume Balancing Adjustment (Rider VBA) charge = volumes × forecasted Rider
248 VBA rates.
- 249 • Uncollectible Expense Adjustment Gas Cost (Rider UEA-GC) = retail gas charge
250 revenue × Rider UEA-GC uncollectible factors.
- 251 • 2nd Pulse Device Charge = number of 2nd pulse devices × 2nd pulse rate.
- 252 • Transportation Contract Administrative Charge = number of transportation contract
253 accounts × transportation contract administrative charge rate.
- 254 • Transportation Pool Administrative Charge = number of transportation pool accounts
255 × applicable transportation pool account administrative charge rates, plus number of
256 transportation pools × transportation pool administrative charge rate.
- 257 • Transportation Trade Charge = number of trades × trade charge rate.
- 258 • Supplier Billing Option Credit = number of accounts forecast for supplier billing
259 option × supplier billing option rate.
- 260 • Storage and Balancing Base Rate Revenue = storage and balancing volume × storage
261 and balancing rates.
- 262 • Environmental Activities (Rider 11) Charge = volumes × forecasted Rider 11 rates.
- 263 • Uncollectible Expense Adjustment (Rider UEA) Charge = number of billing periods
264 × forecasted Rider UEA rates.

- 265 • Energy Efficiency and On-bill Financing (Rider EOA) Charges = volumes ×
266 forecasted Rider EOA rates.
- 267 • Renewable Energy Resources Fund Charge = number of billing periods × applicable
268 rates.
- 269 • Low Income Energy Assistance Fund Charge = number of billing periods ×
270 applicable rates.
- 271 • Retail Gas Charge Revenue = Retail gas sales volume × forecasted retail gas charge
272 rates.
- 273 • Standby Demand Gas Charge Revenue = Standby demand volume × forecasted
274 standby demand gas charge rates.
- 275 • Storage and Balancing Gas Charge = Storage and balancing volume × storage and
276 balancing gas charge rates.
- 277 • Standby Commodity Gas Charge Revenue = Standby commodity volume ×
278 forecasted standby commodity gas charge rates.
- 279 • Storage Gas Charge Revenue = Storage Gas Charge volume x forecasted Storage Gas
280 Charge rates.
- 281 • Hub Credit Gas Charges = Applicable volume × forecasted hub credit rates.
- 282 • Add-on Revenue Taxes = Taxable revenue × applicable add-on tax rates.
- 283 • Gas Use Taxes = Transportation volume × taxable therm percentage × applicable gas
284 use tax rates.

285 **Q. How were the various rates determined?**

286 A. Peoples Gas tariff provided the rates for many of the base rate revenues and Regulatory
 287 Services provided the forecasted rates for various riders and gas charge revenues based
 288 on forecasted billing determinants and/or forecasted costs or revenues.

289 **IV. COMPARISON OF COMPARATIVE YEAR DEMAND AND FORECASTED**
 290 **DEMAND**

291 **Q. Please compare the 2015 test year demand to the comparative year 2013 (6 months**
 292 **of actual and 6 months forecast) demand.**

293 A. The comparative year 2013 demand is based on actual weather normalized demand
 294 (based on 6,031 HDD) January 2013 to June 2013 and forecasted demand for July
 295 through December 2013. The forecasted demand for 2013 is based on 6,126 normal
 296 heating degree days.

PGL Test Year Ending December 31, 2015 (Therms)								
Line No	Present Rate Classification	Fiscal Year 2013	Weather Adjustments	Normalized 2013	Test Year 2015	Difference	Annualized % Change	Line No
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	
						(E-D)	(F/D)/2	
1	Retail and Transportation							1
2	Company Use	8,532,000	0	8,532,000	8,346,000	-186,000	-1.1%	2
3	S.C. No. 1	747,015,000	-25,452,000	721,563,000	687,880,000	-33,683,000	-2.3%	3
4	S.C. No. 2	725,974,000	-24,611,000	701,363,000	676,798,000	-24,565,000	-1.8%	4
5	S.C. No. 4	220,222,000	0	220,222,000	197,896,000	-22,326,000	-5.1%	5
6	S.C. Nos. 5&7	31,297,000	0	31,297,000	35,462,000	4,165,000	6.7%	6
7	S.C. No. 8	1,009,000	0	1,009,000	1,409,000	400,000	19.8%	7
8	Total Volumes	1,734,049,000	-50,063,000	1,683,986,000	1,607,791,000	-76,195,000	-2.3%	8

297
 298 The declining annualized percent change from 2013 to 2015 for S.C. Nos. 1 and 2 is due
 299 primarily to declining usage due to the energy efficiency gains documented by EIA
 300 projections. Large volume customer sales and customer counts in S.C. No. 4 are also
 301 forecasted to decline.

302 **Q. Does this conclude your direct testimony?**

303 A. Yes, it does.