

STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION

THE PEOPLES GAS LIGHT :
AND COKE COMPANY :
 : No. 12-____
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	1
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
11 Gas”), 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 2013 test year, and to explain how that forecast was derived. I will also compare Peoples
16 Gas’ forecasted 2013 test year demand to its demand from its last comparative year,
17 which is made up of its 2011 actual weather normalized demand from January 2011 –
18 December 2011. Based on its regression analyses, Peoples Gas forecasts 2013 customer
19 demand of 166.1 billion cubic feet (“Bcf”) of natural gas as compared to 171.3 Bcf in
20 comparative year 2011, a decrease of 5.2 Bcf or about 3.0%.

21 **C. Background and Experience**

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

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

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

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

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

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

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

41 A. Yes, I have. I testified before this Commission in Docket Nos. 11-0280/11-0281 (cons.),
42 which was Peoples Gas' most recent general rate case. I have also testified before the
43 Michigan Public Service Commission in Case No. U-16166, which was the most recent
44 general rate case of Upper Peninsula Power Company, another Integrys subsidiary.

45 **II. GAS SALES FORECAST METHODOLOGY**

46 **A. Forecast of Customer Demand**

47 **Q. In general, how did Peoples Gas forecast customer demand for the 2013 test year?**

48 A. We did so by performing regression analyses for each Service Classification (“S.C.”) to
49 measure each customer segment’s sensitivity to certain explanatory variables (e.g.,
50 weather, price, estimated efficiency improvements, and socioeconomic trends) that affect
51 the segment’s natural gas usage.

52 **Q What are Peoples Gas’ current Service Classifications?**

53 A. Peoples Gas’ customers are currently divided among six Service Classifications. The
54 customers in S.C. No. 1 (Small Residential Service) and S.C. No. 2 (General Service) are
55 classified as “firm general.” For test year 2013, Peoples Gas forecasts 813,049 customers
56 in S.C. No. 1 and S.C. No. 2. The 171 customers in S.C. No. 4 (Large Volume Demand
57 Service), S.C. No. 5 (Contract Service for Electric Generation), S.C. No. 7 (Contract
58 Service to Prevent Bypass) and S.C. No. 8 (Compressed Natural Gas Service) are
59 classified as “large volume customers.”

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

61 A. Peoples Gas’ forecasted total demand is comprised of forecasts of its large volume
62 customer demand and its firm general demand.

63 **Q. What methodology did Peoples Gas use to determine the large volume customer
64 demand forecast for the 2013 test year?**

65 A. There were a number of steps in the forecast process for large volume customer demand.
66 First, monthly demands for S.C. Nos. 4 through 8 were summed. Second, adjustments

67 were made to the demand totals based on customer movement between Service
68 Classifications. This ensured that the historical data and current large volume customer
69 demand were comparable. Finally, a regression analysis was performed to forecast the
70 long-term trend in large volume customer total demand.

71 **Q. What methodology did Peoples Gas use to determine the firm general demand**
72 **forecast for the 2013 test year?**

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

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

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

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

95 A. Yes. The S.C. No. 1 Heating forecast uses two regression models, a number-of-
96 customers model and a use-per-customer model. Both are monthly models, and each was
97 run with historical monthly data from January 2003 to November 2011. The use-per-
98 customer model is a regression using multiplicative variables developed by Itron¹
99 representing Heating and Other gas usage. Itron calls this a Statistically Adjusted End-
100 Use (“SAE”) model. This model makes use of billing heating degree days (“HDD”),
101 appliance saturation and efficiencies, home size (people per household), trends based on
102 U.S. Energy Information Administration (“EIA”) data, real personal income, and real
103 price to the customer.

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

¹ Itron is a technology provider to energy and water industries worldwide that developed both the multiplicative variables and the SAE regression model. Itron provides technology regarding metering, meter data collection, energy information management, load forecasting, analysis and consulting services to over 3,000 utilities. MetrixND is a 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 in fourteen countries.

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

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

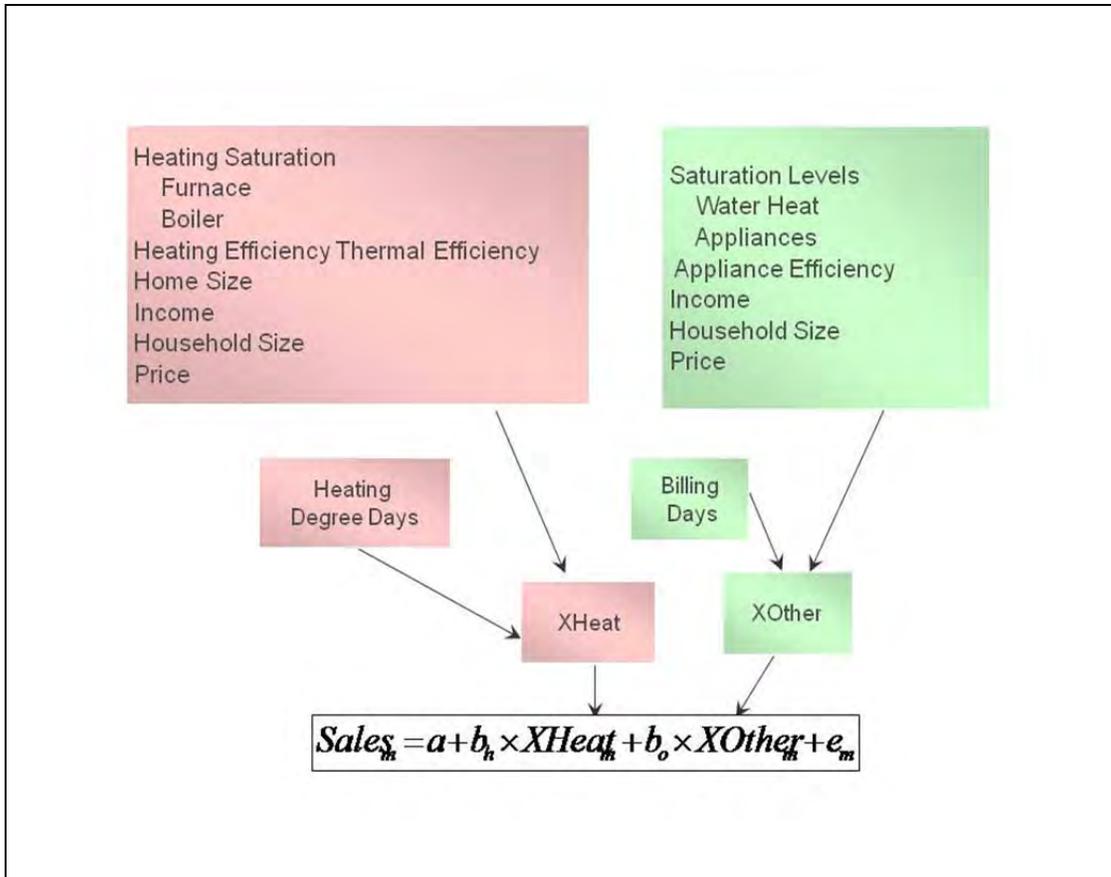
112 Instead of constructing a regression model with many explanatory variables, this
113 approach constructs a model with two high-level end-use variables: Heating and Other
114 Use. The model structure then embeds forecast drivers into these two constructed
115 variables. The forecast drivers include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

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

$$119 \text{AvgUse}_t = B_0 + B_1 X_{\text{Heat}_t} + B_2 X_{\text{Other}_t} + e_t$$

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

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



128

129

The XHeat variable has two components:

130

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

131

HeatIndex is expanded below:

132

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

133

HeatUse is expanded below:

134

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

135

Factors impacting Heat Use or XHeat are:

136

1. Non-weather-sensitive end-use saturation and efficiency trends,

- 137 2. Number of billing days,
138 3. Household size and income, and
139 4. Prices.

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

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

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

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

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

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

148 A. The statistical reliability of the use-per-customer equations is first measured with the
149 coefficient of determination, or R^2 . The R^2 measures the proportion or percentage of the
150 total variation in use per customer that is explained by the regression model. The
151 following table shows the R^2 for each equation along with the percentage of actual
152 demand in 2010. Approximately 99 percent of the total variation in Peoples Gas' use per
153 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%	41.2%
S.C. No. 1 Non-heating	96.7%	0.6%
S.C. No. 2 Heating	99.3%	40.0%
S.C. No. 2 Non-heating	92.0%	1.7%
S.C. Nos. 4-8 (Total Demand)	96.3%	16.5%
Weighted Average	98.8%	100.0%

154

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

155

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

157

158 **A.** The statistical reliability of the number-of-customers equations is first measured with the
 159 R^2 . The following table shows the R^2 for each equation along with the percentage of
 160 actual demand in 2010. Ninety-seven percent of the total variation in Peoples Gas’
 161 number of customers is explained by the regression models.

161

PGL Number of Customers Equations		
	Adjusted R-squared	Percentage of Demand
S.C. No. 1 Heating	95.1%	41.2%
S.C. No. 1 Non-heating	99.9%	0.6%
S.C. No. 2 Heating	98.9%	40.0%
S.C. No. 2 Non-heating	99.1%	1.7%
S.C. Nos. 4-8 (Total Demand)	97.0%	16.5%
Weighted Average	97.0%	100.0%

162

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

163

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

164

- 165 • For S.C. Nos. 1 and 2 Heating, normal weather based on the twelve-year period 1999-
166 2010 for Chicago, O’Hare weather station was used.² This equals 6,093 HDD for
167 non-leap years and 6,113 HDD for leap years.
- 168 • Economic information was from the November 2011 Moody’s Analytics forecast for
169 Peoples Gas.
- 170 • EIA forecasts of efficiency and saturation were provided by Itron.
- 171 • Price information was from NYMEX Short-Term Forecast dated November 26, 2011.

172 **Q. Based on these analyses, what level of customer demand does Peoples Gas forecast**
173 **for test year 2013?**

174 A. Peoples Gas forecasts firm general demand of 139.9 Bcf and large volume customer
175 demand of 26.2 Bcf, for a total demand of 166.1 Bcf in test year 2013.

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

177 A. Yes. The six classifications from the forecast of annual firm general demand volumes
178 and customers were further divided into the following customer categories by month for
179 volume blocking and revenue forecasting purposes. This approach determined monthly
180 and annual volumes by Service Classification, revenue class (residential, commercial,
181 and industrial), heating / non-heating, and sales type (retail and transport). The
182 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.) In ICC Docket Nos. 09-0166/09-0167 (cons.), Peoples Gas witness Mr. Brian Marozas recommended 6,095 HDD based on 1996-2007 data, and this issue was not contested. In ICC Docket Nos. 11-0280/11-0281 (cons.), Peoples Gas proposed 6,016 HDD for non-leap years and 6,036 HDD for leap years based on the twelve-year period ending 2009, and the issue was not contested.

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

183

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

185 A. The basis was historical sales by subgroup from 2011 actual sales volumes (“allocation
 186 base period”). The sales forecast was allocated based on the allocation base period
 187 percentages.

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

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

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

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

198 A. Yes.

199 **Q. Please identify these other billing determinants and discuss how they were**
200 **determined.**

201 A. The other billing determinants are as follows:

- 202 • Billing Periods: Base time period (January through December 2011) ratio of the
203 number of billing periods to the number of customers \times the forecasted number of
204 customers. S.C. No. 2 billing periods were further allocated to small, medium and
205 large meter classes based on the allocation of base time period's monthly meter
206 classes.
- 207 • Demand Volume: Analysis of two most recent months' demand volumes. S.C. No. 4
208 only.
- 209 • Standby Demand Volume: Most recent month's standby demand volume.
210 Transportation only.
- 211 • Standby Commodity Volume: Three year average of the monthly standby
212 commodity volume percentage times transportation volume forecast. Transportation
213 pool/contract only.
- 214 • ABGC Volume: All S.C. No. 1 transportation volume + base period S.C. No. 2
215 ABGC volume ratio \times S.C. No. 2 transportation volume forecast. Transportation
216 only.

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

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

233 A. Revenues were calculated in the RFM.

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

235 A. The RFM applies applicable rates to each billing determinants to calculate various
236 revenues by month for all sub-groups. Specific revenue items, applicable billing
237 determinants and rates are as follows:

- 238 • Customer Charge = number of billing periods × applicable customer charge rates.

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

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

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

283 A. The Peoples Gas tariff provided the rates for many of the base rate revenues and
 284 Regulatory Services provided the forecasted rates for various riders and gas charge
 285 revenues based on forecasted billing determinants and/or forecasted costs or revenues.
 286 Due to the timing of the forecast, there was one exception. The forecast includes ABGC
 287 volumes and revenues for Rider CFY customers as well as Standby Demand volumes and
 288 revenues for Rider SST customers in place of the storage gas charge which replaced those
 289 charges effective May 1, 2012. The total gas charge revenues are unaffected by this
 290 exception.

291 **IV. COMPARISON OF COMPARATIVE YEAR**
 292 **DEMAND AND FORECASTED DEMAND**

293 **Q. Please compare the 2013 test year demand to the comparative year 2011 (12 months**
 294 **of actual) demand.**

295 A. The comparative year 2011 demand is based on actual weather normalized demand
 296 (based on 6,093 HDD) from January 2011 to December 2011.

PGL Test Year Ending December 31, 2013 (Therms)								
Line	Present Rate	Fiscal Year	Weather	Normalized			Annualized	Line
No	Classification	2011	Adjustments	Fiscal Year 2011	Test Year 2013	Difference	% Change	No
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	
						(E-D)	(F/D)/2	
1	Sales and Transportation							1
2	Company Use	7,533,000	0	7,533,000	7,423,000	-110,000	-0.7%	2
3	S.C. No. 1	723,033,000	-2,947,000	720,086,000	702,725,000	-17,361,000	-1.2%	3
4	S.C. No. 2	713,404,000	-5,136,000	708,268,000	688,785,000	-19,483,000	-1.4%	4
5	S.C. No. 4	243,255,000	0	243,255,000	228,294,000	-14,961,000	-3.1%	5
6	S.C. Nos. 5&7	33,946,000	0	33,946,000	33,378,000	-568,000	-0.8%	6
7	S.C. No. 8	140,000	0	140,000	167,000	27,000	9.6%	7
297	Total Volumes	1,721,311,000	-8,083,000	1,713,228,000	1,660,772,000	-52,456,000	-1.5%	8

298 The declining annualized percent change from 2011 to 2013 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.