#### BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION,	•	
Complainant	:	
<b>V</b> .	•	Docket No. R-2018-3006818
PEOPLES NATURAL GAS COMPANY LLC,	•	
Respondent	:	

#### PREPARED DIRECT TESTIMONY OF RUSSELL A. FEINGOLD, VICE PRESIDENT BLACK & VEATCH MANAGEMENT CONSULTING, LLC

DATE SERVED: January 28, 2019 DATE ADMITTED: \_\_\_\_\_

Peoples Statement No. 11

#### PREPARED DIRECT TESTIMONY OF RUSSELL A. FEINGOLD

1	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	A.	My name is Russell A. Feingold and my business address is 2525 Lindenwood Drive,
3		Wexford, Pennsylvania 15090.
4		
5	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
6	A.	I am employed by Black & Veatch Management Consulting, LLC ("Black & Veatch") as
7		a Vice President and I lead its Rates & Regulatory Services Practice.
8		
9	Q.	PLEASE DESCRIBE THE FIRM OF BLACK & VEATCH CORPORATION.
10	A.	Black & Veatch Corporation (the parent company of Black & Veatch) has provided
11		comprehensive engineering and management services to utility, industrial, and governmental
12		entities since 1915. Black & Veatch delivers management consulting solutions in the energy
13		and water sectors. Our services include broad-based strategic, regulatory, financial, and
14		information systems consulting. In the energy sector, Black & Veatch delivers a variety of
15		services for companies involved in the generation, transmission, and distribution of electricity
16		and natural gas. From an industry-wide perspective, Black & Veatch has extensive
17		experience in all aspects of the North American natural gas industry, including utility costing
18		and pricing, gas supply and transportation planning, competitive market analysis and regulatory
19		practices and policies gained through management and operating responsibilities at gas
20		distribution, pipeline and other energy-related companies, and through a wide variety of

1	client assignments.	Black &	Veatch	has	assisted	numerous	gas	distribution	companies
2	located in the U.S. an	d Canada.							

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- 4

#### Q. WHAT IS YOUR EDUCATIONAL BACKGROUND?

A. I received a Bachelor of Science Degree in Electrical Engineering from Washington
University - St. Louis and a Master of Science Degree in Financial Management from
Polytechnic Institute of New York University.

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## 9 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PENNSYLVANIA PUBLIC 10 UTILITY COMMISSION ("COMMISSION") OR ANY OTHER REGULATORY 11 AUTHORITY?

A. Yes. I have presented expert testimony before the Federal Energy Regulatory Commission
 ("FERC"), the National Energy Board of Canada, and numerous state and provincial
 regulatory commissions, including this Commission. My expert testimony has dealt with
 the costing and pricing of energy-related products and services for gas and electric
 distribution and gas pipeline companies.

In addition to traditional utility costing and rate design concepts and issues, my testimony addressed revenue decoupling concepts and other innovative ratemaking approaches, gas transportation rates, gas supply planning issues and activities, marketbased rates, Performance-Based Regulation ("PBR") concepts and plans, competitive market analysis, gas merchant service issues, strategic business alliances, market power assessment, merger and acquisition analyses, multi-jurisdictional utility cost allocation issues, inter-affiliate cost separation and transfer pricing issues, seasonal rates,

cogeneration rates, and pipeline ratemaking issues related to the importation of gas into the United States.

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## 4 Q. WHAT HAS BEEN THE NATURE OF YOUR WORK IN THE UTILITY 5 CONSULTING FIELD?

6 А I have over forty-three (43) years of experience in the utility industry, the last forty (40) years of which have been in the field of utility management and economic consulting. 7 Specializing in the natural gas industry, I have advised and assisted utility management, 8 industry trade and research organizations and large energy users in matters pertaining to 9 costing and pricing, competitive market analysis, regulatory planning and policy 10 development, gas supply planning issues, strategic business planning, merger and 11 acquisition analysis, corporate restructuring, new product and service development, load 12 research studies and market planning. In addition to my presentation of expert testimony 13 14 in utility regulatory proceedings that was just discussed, I have spoken widely on issues and activities dealing with the pricing and marketing of gas utility services. Further 15 background information summarizing my work experience, presentation of expert 16 17 testimony, and other industry-related activities is included in **Appendix A** to my testimony.

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## Q. PLEASE SUMMARIZE YOUR SPECIFIC EXPERIENCE IN CONDUCTING COST OF SERVICE STUDIES AND DESIGNING RATES FOR GAS AND ELECTRIC UTILITIES.

A. Over my utility consulting career, I have conducted numerous cost of service studies for
 gas and electric utilities to provide guidelines for use in evaluating the utilities' class
 revenue levels and rate structures. In addition to these cost studies, which are based on a

1		utility's embedded or historical costs, I have conducted long-run and short-run marginal
2		cost, avoided cost, and unbundled service and cost studies. Finally, I have reviewed,
3		evaluated, designed and implemented rate structures and other innovative pricing
4		approaches for numerous gas and electric utilities operating in North America and abroad.
5		
6	Q.	FOR WHAT PURPOSE HAVE YOU BEEN RETAINED BY PEOPLES NATURAL
7		GAS COMPANY LLC?
8	A.	I have been retained by Peoples Natural Gas Company LLC ("Peoples" or the "Company")
9		as a consultant specializing in utility costing and related regulatory matters. Specifically, the
10		Company requested that I conduct a cost of service study to determine the embedded costs of
11		serving its customers and to develop its class revenue and rate design proposals.
12		
13	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?
14	A.	The purpose of my testimony is to present the results of the cost of service studies filed by the
15		Company in this proceeding and to discuss the underlying methodology used in the studies and
16		how its results are used for ratemaking purposes, and to present and discuss Peoples' proposed
17		class revenues, rate design and the resulting rates by rate class.
18		
19	Q.	PLEASE LIST THE FILING REQUIREMENTS THAT YOU ARE SPONSORING
20		AS A WITNESS.
21	A.	Please refer to Peoples Exhibit RAF-1 for a complete list of the filing requirements for
22		which I am the responsible witness.
23		

## Q. ARE YOU SPONSORING ANY OTHER EXHIBITS AS PART OF YOUR TESTIMONY?

3	A.	Yes. I am also sponsoring the following exhibits related to the Company's cost of service
4		studies, class revenue and rate design proposals:
5		• Peoples Exhibit RAF-2: Minimum Customer Cost Analysis <sup>1</sup>
6		• Peoples Exhibit RAF-3: Derivation of the Total Gathering Cost of Service
7		• Peoples Exhibit RAF-4: Proposed Class Revenue Apportionment
8		• Peoples Exhibit RAF-5: Proposed Rates
9		• Peoples Exhibit RAF-6: Residential Monthly Bill Comparisons
10		• Peoples Exhibit RAF-7: Derivation of the Merchant Function Charge (Rider E)
11		• Peoples Exhibit RAF-8: Derivation of the Gas Procurement Charge (Rider G)
12		• Peoples Exhibit RAF-9: Derivation of Supplier Services – Revenue and Cost
13		Comparison
14		• Peoples Exhibit RAF-10: Derivation of the Purchase of Receivables –
15		Administration Adder
16		The structure and supporting computations contained in each of these exhibits will be
17		explained later in my testimony.
18		
19		PEOPLES PROPOSED RATE CLASSES
20	Q.	WHAT ARE THE RATE CLASSES THAT PEOPLES' PROPOSES TO
21		ESTABLISH IN THIS PROCEEDING?

<sup>&</sup>lt;sup>1</sup> Presented in addition to the Company's required customer cost analysis it has filed in Item IV-B-9 of Exhibit IV.

A. Peoples is proposing to merge the existing rate classes of its Equitable Division into the
existing rate classes of its Peoples Division so there will be one uniform set of rate classes
and tariffs for Peoples' combined operations after the completion of this rate case. Table
1 below shows how the current rate classes for the Equitable Division will be merged with
the current rate classes of the Peoples Division to create Peoples' proposed uniform set of
rate classes.

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Table 1 – Peoples' Proposed Rate Class Configuration

Peoples Division	
and Combined Divisions	Equitable Division
Sales Se	rvice
Residential Service – Rate RS	Residential Service – Rate RS
Small General Service – Rate SGS	General Service Small - Rate GSS
	(0 - 1,000 MCF/Year)
Medium General Service – Rate MGS	General Service Large – Rate GSL
	(1,000 – 25,000 MCF/Year)
Large General Service – Rate LGS	General Service Large – Rate GSL
	(Over 25,000 MCF/Year)
Transportati	on Service
Residential Service – Rate GS-T	Firm Delivery Service – Rate FDS
Small General Service – Rate GS-T SGS	General Delivery Service – Rate GDS
	(0 - 1,000 MCF/Year)
Medium General Service – Rate GS-T MGS	General Delivery Service – Rate GDS
	(1,000 - 25,000 MCF/Year)
Large General Service – Rate GS-T LGS	General Delivery Service – Rate GDS
	(Over 25,000 MCF/Year)

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#### PEOPLES' COST OF SERVICE STUDIES

### 10 Q. HAS A COST OF SERVICE STUDY BEEN SUBMITTED IN THIS 11 PROCEEDING?

A. Yes. Exhibit 11, Schedule 1 (53.53 IV-B-1) of the Company's filing contains a series of cost
 of service studies based upon pro forma revenues and costs for the future test year ending

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1		October 31, 2020, at present and proposed rates. The studies were performed using Black &
2		Veatch's proprietary, computer-based Gas Cost of Service Study ("COSS") Model.
3		
4	Q.	WERE THESE COST OF SERVICE STUDIES PREPARED BY YOU OR UNDER
5		YOUR SUPERVISION AND DIRECTION?
6	A.	Yes, they were.
7		
8	Q.	WHAT WAS THE SOURCE OF THE COST DATA ANALYZED IN PEOPLES'
9		COST OF SERVICE STUDIES?
10	A.	All cost of service data has been extracted from the Company's total cost of service (i.e., total
11		revenue requirement) contained in this filing. Where more detailed information was required
12		to perform various subsidiary analyses related to certain plant and expense elements, the data
13		were derived from the historical books and records of the Company.
14		
15	Q.	WHAT CLASSES OF SERVICE WERE INCLUDED IN THE COMPANY'S COST
16		OF SERVICE STUDIES?
17	A.	The customer classes reflected in Peoples' cost of service studies are Residential Service (RS),
18		Small General Service (SGS), Medium General Service (MGS), and Large General Service
19		(LGS).
20		
21	Q.	DO THESE RATE CLASSES INCLUDE BOTH SALES AND TRANSPORTATION
22		SERVICE CUSTOMERS?

A. Yes. These customer classes are configured as combined classes that include both sales service 1 and transportation service customers. Therefore, the RS class includes residential customers 2 served under Peoples' Rates RS and GS-T, the SGS class includes small commercial and 3 industrial customers served under Peoples' Rates SGS and GS-T, the MGS class includes 4 medium-sized commercial and industrial customers served under Peoples' Rates MGS and GS-5 6 T, and the LGS class includes large commercial and industrial customers served under Peoples' Rates LGS and GS-T. A gas utility's class cost of service study should recognize that sales 7 service and transportation service customers both require delivery service to physically move 8 gas on its gas system. For example, it costs a gas utility the same amount to have a service line 9 and meter in place at a customer's premises, irrespective of whether the gas moving through 10 the service line and meter is customer-owned gas transported by the utility, or gas it owns that 11 is sold to the customer. Similarly, the volume of gas used by a customer during a peak period 12 establishes the customer's contribution to the system peak. A gas utility's pipeline system does 13 14 not need to be larger or smaller if the customer, instead of the utility, owns the gas as it moves through its gas system. Therefore, the allocation of distribution costs for sales service and 15 transportation service for the same customer should be based on allocation factors that 16 17 include both sales and transportation load characteristics.

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### 19 Q. PLEASE EXPLAIN WHY THE COST OF SERVICE STUDIES YOU PREPARED DO 20 NOT INCLUDE A RATE CLASS FOR GATHERING SERVICE.

A. Peoples' cost of service studies do not include a separate rate class for gathering service since
 Peoples is proposing that its gathering service rates be set on a negotiated basis using value of
 service considerations rather than cost of service as a guide. As such, a cost of service study for

Peoples which includes a gathering service rate class would provide no value in determining the revenue and rate levels for gathering service to local producers that are reflective of the valuebased considerations associated with producers' access to Peoples' gathering system. Nevertheless, as I explain later in this testimony. I have determined the cost of service associated with Peoples' gathering system and compared that to the contributions by producers under present and proposed charges for informational purposes.

Peoples' witness Joseph Gregorini (Peoples Statement No. 2) discusses the various
competitive and business considerations that were evaluated in determining the level of its
gathering service rates that are proposed to be charged to local gas producers connected to
Peoples' gas system.

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## Q. DID YOU PREPARE COST OF SERVICE STUDIES FOR THE COMPANY ON A COMBINED BASIS AS WELL AS FOR EACH OF ITS TWO OPERATING DIVISIONS?

A. Yes. I have prepared cost of service studies at present and proposed rates for the Company
 on a combined divisional basis and I have also prepared, for informational purposes,
 separate cost of service studies for the Peoples Division and Equitable Division at present
 rates.

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## Q. PLEASE DESCRIBE IN MORE DETAIL THE COMPANY'S COST OF SERVICE STUDIES PRESENTED IN EXHIBIT 11, SCHEDULE 1 WHICH CONSISTS OF 53.53 IV-B-1(A) THROUGH IV-B-1(I).

23 A. This Exhibit is structured as follows:

1	•	IV-B-1(A) - presents Peoples' cost of service study at present rates based on a design day
2		demand allocation method with a customer component of distribution mains.
3	•	IV-B-1(B) - presents Peoples' cost of service study at present rates based on a peak and
4		average demand allocation method without a customer component of distribution mains.
5	•	IV-B-1(C) - presents the summary page of Peoples' cost of service study at proposed rates
6		based on a design day demand allocation method with a customer component of distribution
7		mains.
8	•	IV-B-1(D) - presents the summary page of Peoples' cost of service study at proposed rates
9		based on a peak and average demand allocation method without a customer component of
10		distribution mains.
11	•	IV-B-1(E) - presents a summary of results for Peoples' four cost of service studies described
12		above.
13	•	IV-B-1(F) - presents summary pages of the cost of service study for the individual Peoples
14		Division at present rates based on a design day demand allocation method with a customer
15		component of distribution mains.
16	•	IV-B-1(G) - presents summary pages of the cost of service study for the Peoples Division at
17		present rates based on a peak and average demand allocation method without a customer
18		component of distribution mains.
19	•	IV-B-1(H) - presents summary pages of the cost of service study for the Equitable Division
20		at present rates based on a design day demand allocation method with a customer component
21		of distribution mains.

- IV-B-1(I) presents summary pages of the cost of service study for the Equitable Division at
   present rates based on a peak and average demand allocation method without a customer
   component of distribution mains.
- *Page 2* of Exhibit 11, Schedule 1 presents the table of contents for the cost of service
  studies presented in this proceeding. Then, the structure for each of the cost of service studies
  provided in IV-B-1(A) and IV-B-1(B) is described below:
- *Page 2* presents a unit cost analysis. *Pages 3-12* present the detailed results of the cost
  of service study by FERC or primary account. *Pages 13-22* present the details of the
  Functionalization phase. *Pages 23-52* present the details of the Classification phase. *Pages 53- 122* present the details of the Company's functionalized and classified revenue requirement by
  customer class.
- Both cost of service studies presented in IV-B-1(A) and IV-B-1(B) are prepared on 12 13 a combined divisional basis and they are structured in the same format. The rate base is 14 presented on lines 1 through 96. Expenses including O&M, customer accounting, A&G, 15 depreciation, taxes other than income, gross receipts tax and income tax are presented on lines 97 through 251. Revenue is presented on lines 252 through 263. Net income at 16 present rates is presented on line 265. A summary of revenue, expenses and net income is 17 18 presented on lines 267 through 297. The revenue requirement at the system average rate of return is presented on lines 301-315. 19
- The summaries of the cost of service studies provided in IV-B-1(C) and IV-B-1(D) present revenue under proposed rates, expenses and net income under proposed rates on lines 1 through 39. The rate of return on net rate base under proposed rates is presented on line 41.

1		The structure for each of the cost of service studies provided in IV-B-1(F) through IV-
2		B-1(I) is described as follows: Page 2 presents a unit cost analysis and Pages 3-12 present the
3		summary results of the cost of service study by FERC or primary account.
4		
5	Q.	HAS A COMPETE DESCRIPTION AND BACK-UP CALCULATIONS FOR ALL
6		THE ALLOCATION FACTORS USED IN THE FUNCTIONALIZATION,
7		CLASSIFICATION AND ALLOCATION PHASES OF PEOPLES' COST OF
8		SERVICE STUDIES BEEN PROVIDED?
9	A.	Yes. Exhibit 11, Schedule 3 (53.53 IV-B-3) provides this detailed cost allocation factor
10		information.
11		
12	0	PLEASE DISCUSS THE FACTORS WHICH YOU BELIEVE CAN INFLUENCE
12	Q.	TLEASE DISCUSS THE FACTORS WHICH TOU BELIEVE CAN INFLUENCE
13	Ų.	THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS
	Ų.	
13	<b>Q.</b> A.	THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS
13 14		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY.
13 14 15		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY. In undertaking a cost of service study, the overall framework within which a gas distribution
13 14 15 16		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY. In undertaking a cost of service study, the overall framework within which a gas distribution utility performs its cost of service study can be influenced by various factors. By overall
13 14 15 16 17		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY. In undertaking a cost of service study, the overall framework within which a gas distribution utility performs its cost of service study can be influenced by various factors. By overall framework, I mean the three standard steps or phases followed by a utility when performing
13 14 15 16 17 18		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY. In undertaking a cost of service study, the overall framework within which a gas distribution utility performs its cost of service study can be influenced by various factors. By overall framework, I mean the three standard steps or phases followed by a utility when performing a cost study - cost functionalization, cost classification, and cost allocation. In my opinion,
13 14 15 16 17 18 19		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY. In undertaking a cost of service study, the overall framework within which a gas distribution utility performs its cost of service study can be influenced by various factors. By overall framework, I mean the three standard steps or phases followed by a utility when performing a cost study - cost functionalization, cost classification, and cost allocation. In my opinion, these factors can include: (1) the physical configuration of the utility's gas system; (2) the
13 14 15 16 17 18 19 20		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY. In undertaking a cost of service study, the overall framework within which a gas distribution utility performs its cost of service study can be influenced by various factors. By overall framework, I mean the three standard steps or phases followed by a utility when performing a cost study - cost functionalization, cost classification, and cost allocation. In my opinion, these factors can include: (1) the physical configuration of the utility's gas system; (2) the availability of data within the utility; and (3) the state regulatory policies and requirements
13 14 15 16 17 18 19 20 21		THE OVERALL COST ALLOCATION FRAMEWORK UTILIZED BY A GAS DISTRIBUTION UTILITY. In undertaking a cost of service study, the overall framework within which a gas distribution utility performs its cost of service study can be influenced by various factors. By overall framework, I mean the three standard steps or phases followed by a utility when performing a cost study - cost functionalization, cost classification, and cost allocation. In my opinion, these factors can include: (1) the physical configuration of the utility's gas system; (2) the availability of data within the utility; and (3) the state regulatory policies and requirements applicable to the gas utility. The physical configuration of the utility's gas system refers to

considerations include determining whether: (1) the distribution system is a centralized grid/single city-gate or a dispersed/multiple city-gate configuration; (2) the gas utility has an integrated transmission and distribution system or a distribution-only operation; and (3) the system operates under a multiple-pressure based or a single-pressure based configuration.

Regarding data availability, the structure of the gas utility's books and records can
influence the cost study framework. This structure relates to attributes such as the level of
detail, segregation of data by rate/customer class, operating unit or geographic region, and
the types of load data available.

10 State regulatory policies and requirements refer to the particular approaches used 11 to establish utility rates in the state. For example, any specific methodological preferences 12 or guidelines for performing cost of service studies or designing rates established by the 13 state regulatory body can affect the various cost allocation methods presented by the gas 14 utility.

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### Q. HOW DO THESE FACTORS RELATE TO THE SPECIFIC CIRCUMSTANCES APPLICABLE TO THE COMPANY?

A. Regarding the physical configuration of the Company's gas system, it is a
 dispersed/multiple city-gate, integrated transmission/distribution system, with upstream gas
 gathering facilities, underground storage, and a multi pressure-based system. The Company
 has detailed plant accounting records for many of its distribution-related facilities, separate
 plant data for its gathering system, and details for some of the larger operating expense
 categories. Finally, over the years, this Commission appears to have given consideration

in evaluating cost of service for gas utilities to both cost of service studies using a
 demand/customer allocation method and demand/commodity allocation of distribution
 mains.

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#### 5 Q. WOULD YOU STATE THE PURPOSE OF A COST OF SERVICE STUDY?

A. A cost of service study is an analysis of costs which attempts to assign to each customer or rate
class its proportionate share of the Company's total cost of service (i.e., the Company's total
revenue requirement). The results of these studies can be utilized to determine the relative cost
of service for each class and to help determine the individual class revenue requirements to be
used in developing prospective rates for each class.

11

### 12 Q. ARE THERE CERTAIN GUIDING PRINCIPLES WHICH SHOULD BE 13 FOLLOWED WHEN PERFORMING A CLASS COST OF SERVICE STUDY?

A. Yes. First, the fundamental and underlying philosophy applicable to all cost studies pertains to
 the concept of cost causation for purposes of allocating costs to customer groups. Cost causation
 addresses the question - which customer or group of customers causes the utility to incur
 particular types of costs? To answer this question, it is necessary to establish a linkage
 between a utility's customers and the particular costs incurred by the utility in serving those
 customers.

The essential element in the selection and development of a reasonable cost of service study allocation methodology is the establishment of relationships between customer requirements, load profiles and usage characteristics on the one hand and the costs incurred by the Company in serving those requirements on the other hand. For

example, providing a customer with gas service during peak periods can have much
 different cost implications for the utility than service to a customer who requires off-peak
 gas service.

The Company's distribution system is designed to meet three primary objectives: (1) to extend distribution services to all customers entitled to be attached to the system; (2) to meet the aggregate peak design day capacity requirements of all customers entitled to service on the peak day; and (3) to deliver volumes of natural gas to those customers either on a sales or transportation basis. There is generally a direct link between the manner in which costs are defined and their subsequent allocation.

10 Customer related costs are incurred to attach a customer to the distribution system, 11 meter any gas usage and maintain the customer's account. Customer costs are a function 12 of the number of customers served and continue to be incurred whether or not the customer 13 uses any gas. They may include capital costs associated with minimum size distribution 14 mains, services, meters, regulators and customer service and accounting expenses.

Demand or capacity related costs are associated with plant which is designed, installed and operated to meet maximum hourly or daily gas flow requirements, such as distribution mains, or more localized distribution facilities which are designed to satisfy individual customer maximum demands. Gas supply-related contracts also have a capacity related component of cost relative to the Company's requirements for serving daily peak demands and the winter peaking season.

Commodity related costs are those costs which vary with the throughput sold to, or
 transported for, customers. Costs related to gas supply are classified as commodity related

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to the extent they vary with the amount of gas volumes purchased by the Company for its sales service customers.

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## 4 Q. WHAT STEPS DID YOU FOLLOW TO PERFORM THE COMPANY'S COST OF 5 SERVICE STUDIES?

A. 6 I followed three broad steps to perform the cost of service studies: (1) functionalization; (2) classification; and (3) allocation. The first step or phase, functionalization, identifies and 7 separates plant and expenses into specific categories based on the various characteristics of 8 utility operation. For Peoples, the functional cost categories associated with gas service include: 9 gas supply, gathering, storage, transmission, and distribution. I should note that the gas supply 10 function simply reflects Peoples' gas supply costs and gas cost revenues that are presented and 11 reviewed within Peoples' annual 1307(f) process. Classification of costs, the second phase, 12 further separates the functionalized plant and expenses into the three cost-defining 13 characteristics of services rendered, as previously discussed: (1) customer; (2) demand or 14 capacity; and (3) commodity or energy. The final phase is the allocation of each functionalized 15 and classified cost element to the individual customer or rate class. Costs typically are allocated 16 on customer, demand, commodity or revenue-related allocation factors. 17

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#### 19 Q. HOW DOES THE COST ANALYST ESTABLISH THE COST AND UTILITY

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### SERVICE RELATIONSHIPS YOU PREVIOUSLY DISCUSSED?

A. To establish these relationships, the cost analyst must analyze the Company's gas system design
 and operations, its accounting records, and its system and customer load data (e.g., annual and
 peak period gas consumption levels). From the results of those analyses, methods of direct

assignment and "common" cost allocation methodologies can be chosen for all of the utility's plant and expense elements.

3

#### 4 Q. PLEASE EXPLAIN WHAT YOU MEAN BY THE TERM "DIRECT 5 ASSIGNMENT?"

A. The term "direct assignment" relates to a specific identification and isolation of plant and/or
expense incurred exclusively to serve a specific customer or group of customers. Direct
assignments best reflect the cost causative characteristics of serving individual customers or
groups of customers. Therefore, in performing a cost of service study, the cost analyst seeks to
maximize the amount of plant and expense directly assigned to particular customer groups.

Direct assignment of plant and expenses to particular customers or classes of customers are made on the basis of special studies wherever the necessary data are available. These assignments are developed by detailed analyses of the utility's maps and records, work order descriptions, property records and customer accounting records. Within time and budgetary constraints, the greater the magnitude of cost responsibility based upon direct assignments, the less reliance need be placed on common plant allocation methodologies associated with joint use plant.

18

#### 19 Q. IS IT REALISTIC TO ASSUME THAT A LARGE PORTION OF THE PLANT

20

#### AND EXPENSES OF A UTILITY CAN BE DIRECTLY ASSIGNED?

A. No. The nature of utility operations is characterized by the existence of common or joint use
 facilities. Out of necessity, then, to the extent a utility's plant and expenses cannot be directly
 assigned to customer groups, "common" allocation methods must be derived to assign or

1

allocate the remaining costs to the customer classes. The analyses discussed above facilitate the derivation of reasonable allocation factors for cost allocation purposes.

3

## 4 Q. AS PART OF YOUR WORK, DID YOU REVIEW AND ANALYZE THE 5 COMPANY'S GAS SYSTEM DESIGN AND OPERATIONS?

- A. Yes. Since it is widely recognized that a utility's plant in service components provide the most
  direct link to a utility's gas service requirements, I initially focused my efforts on better
  understanding the nature and operation of the Company's gas system. This effort included
  review of the Company's gathering, storage, transmission, and distribution systems and the
  types and levels of costs incurred in connecting various sized customers to its distribution
  system.
- 12

# Q. PLEASE EXPLAIN THE MOST IMPORTANT CONSIDERATIONS YOU RELIED UPON IN DETERMINING THE COST ALLOCATION METHODOLOGIES WHICH WERE USED TO PERFORM THE COMPANY'S CLASS COST OF SERVICE STUDY.

A. As stated above, it is important to recognize the cost causative characteristics of the cost
elements which are allocated within any class cost of service study. Additionally, the cost
analyst needs to develop data in a form which is compatible with and supportive of rate design
proposals. Of further concern is the availability of data for use in developing alternative cost
allocation factors. In evaluating any cost allocation methodology, consideration should be given
to:

- 23
- 1. Recognition of <u>cost causality;</u>

1		2. Results which are <u>representative</u> of the true costs of serving different types of
2		customers;
3		3. A sound <u>rationale</u> or <u>theoretical</u> basis;
4		4. <u>Stability</u> of results over time;
5		5. Logical <u>consistency</u> and <u>completeness</u> ; and
6		6. Ease of <u>implementation</u> .
7		
8	Q.	PLEASE DESCRIBE THE KEY ISSUES RELATED TO THE ALLOCATION OF
9		DEMAND-RELATED COSTS WITHIN A GAS UTILITY'S COST OF SERVICE
10		STUDY?
11	A.	A complex part of the allocation process is the allocation of demand-related costs. Any number
12		of methodologies has been used to develop allocation factors for the demand components of
13		costs. In fact, it is not unusual for more than one demand cost allocation methodology to be
14		used in a cost of service study. Despite numerous methods to allocate demand costs, it is fair to
15		say that three basic methodologies form the foundation for the allocation process. These three
16		methodologies are Peak Demand Allocations, Average and Excess Demand Allocations and
17		Non-Coincident Demand Allocations. Each of these demand allocation methodologies is
18		discussed below.
19		The concept of Peak Demand Allocation is premised on the notion that investment
20		in capacity is determined by the peak load or peak loads of the Company. Under this
21		methodology, demand related costs are allocated to each customer class or group in
22		proportion to the demand coincident with the system peak or peaks of that class or group.
23		The Peak Demand Allocation process might focus on a single peak, such as the highest

daily demand occurring during the test period. Other variations might include the average
 of several cold days, or the expected contribution to the system peak on a design day. In
 some instances, it may be appropriate to determine the peak demand responsibility on an
 hourly basis rather than a daily basis where hourly requirements dictate a company's
 investment in distribution facilities.

6 The Average and Excess Demand Allocation methodology, also referred to as the "used and unused capacity" method, allocates demand related costs to the classes of service 7 on the basis of system and class load factor characteristics. Specifically, the portion of 8 9 utility facilities and related expenses required to service the average load is allocated on the basis of each class' average demand. The portion of these facilities is derived by 10 multiplying the total demand related costs by the utility's system load factor. The 11 remaining demand related costs are allocated to the classes based on each class' excess or 12 unused demand (i.e., total class non-coincident demand minus average demand). 13

A more simplistic version of this methodology is the Peak and Average 14 methodology. This cost methodology gives equivalent weight to peak demands and 15 average demands. As is the case with the Average and Excess method, it has the effect of 16 17 allocating a portion of the utility's demand-related costs on a commodity-related basis. The Non-Coincident Demand Allocation methodology recognizes that certain facilities, in 18 19 particular distribution facilities, are designed to serve local peaks which may or may not 20 be coincident with the system peak loads. Using this methodology, demand costs are allocated on the basis of each group's (rate class), maximum demand, irrespective of the 21 22 time of the system peak.

23

**Peoples Statement No. 11** 

Q. HOW HAVE DEMAND-RELATED COSTS BEEN ALLOCATED IN THE
 COMPANY'S COST OF SERVICE STUDIES?

A. Peoples' cost of service studies use either a coincident peak demand or peak and average
allocation factor, both derived on a design day basis, for allocating its capacity related costs to
the various customer classes. Capacity costs for the Company consist of the capacity costs
associated with city-gate facilities and the capacity portion of the Company's distribution
system.

8

## 9 Q. WHY DOESN'T AVERAGE DEMAND (I.E., ANNUAL GAS THROUGHPUT 10 VOLUMES DIVIDED BY 365 DAYS) INFLUENCE THE OCCURRENCE OF 11 DEMAND-RELATED COSTS?

A. If a gas utility's system was sized and installed to accommodate average gas demands, it would be unable to accommodate system peak demands. That is, by sizing plant investment for peak period demands, the gas utility is assured of being able to satisfy its service obligation throughout the year. From a gas engineering perspective, it is clear that a peak demand design criterion is always utilized when designing a gas distribution system to accommodate the gas demand requirements of the customers served from that system. As such, cost causation with respect to demand related costs is unrelated to average demand characteristics.

Additionally, use of average demand characteristics for the allocation of demand related costs penalizes customers that exhibit efficient gas consumption characteristics (i.e., customers with high load factors) and encourages the inefficient use of the gas utility's system by customers with low load factors. Clearly, under-utilization of a gas utility's system

**Peoples Statement No. 11** 

1		is a result that it can hardly encourage, recognizing that higher system utilization will result
2		in lower unit costs to all customers served by the gas utility.
3		For the above-stated reasons, it is inappropriate to rely upon only a commodity-
4		based allocation factor, as derived from annual gas throughput volume, for purposes of allocating
5		demand related costs to a gas utility.
6		
7	Q.	WHY DID YOU CHOOSE TO UTILIZE THE COMPANY'S DESIGN DAY
8		DEMAND RATHER THAN ITS ACTUAL PEAK DAY DEMAND AS A DEMAND
9		ALLOCATION FACTOR?
10	A.	Use of a gas utility's design day demand is superior to using its actual peak day demand, or an
11		historical average of multiple peak day demands over time, for purposes of deriving demand
12		allocation factors for a number of reasons. These include:
13		1. A gas utility's system is designed, and consequently costs are incurred, to meet
14		design day demand. In contrast, costs are not incurred on the basis of an average
15		of peak demands.
16		2. Design day demand is more consistent with the level of change in customer
17		demands for gas during peak periods and is more closely related to the change in
18		fixed plant investment over time.
19		3. Design day demand provides more stable cost allocation results over time.
20		
21	Q.	PLEASE EXPLAIN WHY THE COMPANY'S DESIGN DAY DEMAND BEST
22		REFLECTS THE FACTORS THAT ACTUALLY CAUSE COSTS TO BE
23		INCURRED?

1 А The Company must consistently rely upon design day demand in the acquisition of its upstream gas supply-related resources and in the design of its own distribution facilities required to service 2 its firm service customers. And perhaps more importantly, design day demand directly 3 measures the gas demand requirements of the Company's firm service customers which create 4 the need for the Company to acquire resources, build facilities and incur millions of dollars in 5 6 fixed costs on an ongoing basis. In my opinion, there is no better way to capture the true cost causative factors of the Company's operations than to utilize its design peak day 7 requirements within its cost of service study. 8

9

#### 10 Q. WHAT LEVEL OF FIRM DEMAND REQUIREMENTS MUST THE COMPANY

#### 11 CONSIDER IN DESIGNING ITS GAS DISTRIBUTION SYSTEM TO DELIVER 12 GAS UNDER ALL CONDITIONS?

# A. Peoples designs its system, and has sufficient capacity, to serve the delivery or transportation requirements of all its sales and transportation service customers. Therefore, the demands of all customers will be treated on an equivalent basis for purposes of cost allocation based on peak demands.

17

#### 18 Q. WHY IS USE OF DESIGN DAY DEMAND CLOSELY RELATED TO THE

#### **19 CHANGE IN THE COMPANY'S FIXED PLANT INVESTMENT OVER TIME?**

A. The change in its design day demand serves as the primary input into the Company's ongoing
 decisions to install distribution system facilities to meet firm customer demands for gas delivery
 service.

1		Regarding plant investment for meeting growth, the construction cost estimates
2		associated with connecting a new customer to the Company's gas distribution system are always
3		based upon the capacity level necessary to meet each customer's peak hour demands. An
4		excellent proxy for the peak hour demands used in distribution cost estimating is the customer's
5		design day demand.
6		
7	Q.	PLEASE EXPLAIN WHY USE OF DESIGN DAY DEMAND PROVIDES MORE
8		STABLE COST ALLOCATION RESULTS OVER TIME?
9	A.	By definition, a gas utility's design day peak is as stable a determinant of planned capacity
10		utilization as you can derive. If it was not a stable demand determinant, the design of a gas
11		utility's system and supply portfolio would tend to vary and make the installation of facilities a
12		much more difficult task. Therefore, use of design day demands provides a more stable basis
13		than any of the other demand allocators available based on either actual peak day demand or the
14		averaging of multiple peak days.
15		
16	Q.	HOW WAS INVESTMENT IN DISTRIBUTION MAINS CLASSIFIED AND
17		ALLOCATED IN THE COMPANY'S COST OF SERVICE STUDIES?
18	A.	It is widely accepted that distribution mains (Account No. 376) are installed to meet both system
19		peak period load requirements and to connect customers to the gas utility's system. Therefore,
20		to ensure that the rate classes that cause the incurrence of this plant investment or expense are
21		charged with its cost, distribution mains should be allocated to the rate classes in proportion to
22		their peak period load requirements and numbers of customers.

1		There are two cost factors that influence the level of distribution mains facilities
2		installed by a gas utility in expanding its gas distribution system. First, the size of the
3		distribution main (i.e., the diameter of the main) is directly influenced by the sum of the
4		peak period gas demands placed on the gas utility's system by its customers. Secondly,
5		the total installed footage of distribution mains is influenced by the need to expand the
6		distribution system grid to connect new customers to the system. Therefore, to recognize
7		that these two cost factors influence the level of investment in distribution mains, it is
8		appropriate to allocate such investment based on both peak period demands and the number
9		of customers served by the gas utility.
10		
11	Q.	IS THE METHOD USED TO DETERMINE A CUSTOMER COMPONENT OF
12		DISTRIBUTION MAINS A GENERALLY ACCEPTED TECHNIQUE FOR
12 13		DISTRIBUTION MAINS A GENERALLY ACCEPTED TECHNIQUE FOR IDENTIFYING CUSTOMER-RELATED COSTS?
	A.	
13	A.	IDENTIFYING CUSTOMER-RELATED COSTS?
13 14	A.	<b>IDENTIFYING CUSTOMER-RELATED COSTS?</b> Yes. The two most commonly used methods for determining the customer cost component of
13 14 15	A.	<b>IDENTIFYING CUSTOMER-RELATED COSTS?</b> Yes. The two most commonly used methods for determining the customer cost component of distribution mains facilities consist of the following: (1) the zero-intercept approach; and 2) the
13 14 15 16	A.	<b>IDENTIFYING CUSTOMER-RELATED COSTS?</b> Yes. The two most commonly used methods for determining the customer cost component of distribution mains facilities consist of the following: (1) the zero-intercept approach; and 2) the most commonly installed, minimum-sized unit of plant investment. Under the zero-intercept
13 14 15 16 17	A.	<b>IDENTIFYING CUSTOMER-RELATED COSTS?</b> Yes. The two most commonly used methods for determining the customer cost component of distribution mains facilities consist of the following: (1) the zero-intercept approach; and 2) the most commonly installed, minimum-sized unit of plant investment. Under the zero-intercept approach, a customer cost component is developed through regression analyses to determine
13 14 15 16 17 18	A.	<b>IDENTIFYING CUSTOMER-RELATED COSTS?</b> Yes. The two most commonly used methods for determining the customer cost component of distribution mains facilities consist of the following: (1) the zero-intercept approach; and 2) the most commonly installed, minimum-sized unit of plant investment. Under the zero-intercept approach, a customer cost component is developed through regression analyses to determine the unit cost associated with a zero inch diameter distribution main. The method regresses unit
13 14 15 16 17 18 19	A.	<b>IDENTIFYING CUSTOMER-RELATED COSTS?</b> Yes. The two most commonly used methods for determining the customer cost component of distribution mains facilities consist of the following: (1) the zero-intercept approach; and 2) the most commonly installed, minimum-sized unit of plant investment. Under the zero-intercept approach, a customer cost component is developed through regression analyses to determine the unit cost associated with a zero inch diameter distribution main. The method regresses unit costs associated with the various sized distribution mains installed on the gas utility system
13 14 15 16 17 18 19 20	A.	<b>IDENTIFYING CUSTOMER-RELATED COSTS?</b> Yes. The two most commonly used methods for determining the customer cost component of distribution mains facilities consist of the following: (1) the zero-intercept approach; and 2) the most commonly installed, minimum-sized unit of plant investment. Under the zero-intercept approach, a customer cost component is developed through regression analyses to determine the unit cost associated with a zero inch diameter distribution main. The method regresses unit costs associated with the various sized distribution mains installed on the gas utility system against the size (diameter) of the various distribution mains installed. The zero-intercept

The most commonly installed, minimum-sized unit approach, which is the method 1 utilized in the Company's cost studies, is intended to reflect the engineering considerations 2 associated with installing distribution mains to serve gas customers. That is, the method 3 utilizes actual installed investment units to determine the minimum distribution system 4 rather than a statistical analysis based upon investment characteristics of the entire 5 6 distribution system. Two of the more commonly accepted literary references relied upon when preparing embedded cost of service studies, (1) Electric Utility Cost Allocation 7 Manual, by John J. Doran et al, National Association of Regulatory Utility Commissioners 8 9 (NARUC), and (2) Gas Rate Fundamentals, American Gas Association, both describe minimum system concepts and methods as an appropriate technique for determining the 10 customer component of utility distribution facilities. 11

From an overall regulatory perspective, in its publication entitled, <u>Gas Rate Design</u> <u>Manual</u>, NARUC presents a section which describes the zero-intercept approach as a minimum system method to be used when identifying and quantifying a customer cost component of distribution mains investment.

16 Clearly, the existence and utilization of a customer component of distribution 17 facilities, specifically for distribution mains, is a fully supportable and commonly used 18 approach in the gas industry.

19

## Q. DID YOU MAKE ANY ADJUSTMENT TO THE RESULTING CUSTOMER COST COMPONENT FOR DISTRIBUTION MAINS BASED ON THE USE OF THE MOST COMMONLY INSTALLED, MINIMUM SIZE UNIT APPROACH?

A. Yes. To recognize that the minimum sized distribution main (a 2-inch diameter main) also
has some level of capacity carrying capability, an adjustment was made to the level of the
customer cost component to exclude a portion of the costs of distribution mains from the
customer cost classification category. Those excluded costs were classified as capacityrelated and treated in the same manner as other capacity-related costs for cost allocation
purposes.

7

#### 8 Q. HOW DID YOU RECOGNIZE THE FACT THAT THE COMPANY OPERATES 9 BOTH LOW PRESSURE AND REGULATED PRESSURE DISTRIBUTION 10 MAINS?

A. This operating condition was recognized in the Company's cost of service studies by 11 treating the plant and associated expenses for its low pressure gas distribution system 12 differently compared to the treatment of the plant and associated expenses for its regulated 13 14 pressure gas distribution system. The manner in which various sizes of customers rely upon the Company's gas distribution system determined how each portion of Peoples' gas 15 distribution system was allocated to its rate classes. Specifically, the plant and associated 16 17 expenses for Peoples' regulated pressure distribution mains were assigned to all rate classes, while the plant and associated expenses for its low pressure distribution mains 18 19 were assigned only to the Residential Service, Small General Service, and Medium 20 General Service rate classes. This treatment reflects the fact that larger customers (primarily industrial customers) included in the Company's Large General Service rate 21 22 class do not require Peoples' low pressure distribution mains to receive gas utility service. 23 The nature of their gas loads and higher gas delivery pressure requirements dictate that

they be served from Peoples' regulated pressure gas distribution system. In fact, because
of such gas demand requirements, these customers are not connected to Peoples' low
pressure gas distribution system, nor can they be served indirectly through a back-feeding
of gas from such facilities. As a result, the cost causative characteristics of these plant
and expense elements dictate that they should be treated for cost allocation purposes in the
manner just described.

7

#### 8 Q. IF THESE ARE YOUR PREFERRED METHODS FOR THE ALLOCATION OF 9 DEMAND-RELATED COSTS AND THE CLASSIFICATION AND 10 ALLOCATION OF DISTRIBUTION MAINS, WHY HAVE MULTIPLE COST OF 11 SERVICE STUDIES BEEN FILED IN THIS PROCEEDING?

A. By performing cost of service studies under various cost allocation methodologies, the
boundaries of cost responsibility may be identified. The results can then be used as a tool
to guide the Company's revenue allocation and rate design.

Given adequate time and resources, each individual investment and expense could 15 be analyzed to determine how it is used and what created the need for the investments and 16 17 operating expenses and classified accordingly. Such a detailed cost classification study would, perhaps, be more accurate, but very costly to perform. However, the results of such 18 19 a detailed and extensive cost of service study (assuming that data is available to accomplish 20 it) may not be any more useful for revenue allocation and rate design than the cost of service studies filed in this proceeding, particularly when the cost analyst considers: (1) 21 22 the need to ameliorate customer impacts; (2) the limitations of cost tracking of rates 23 designed for a broad class of customers; and (3) the time and financial constraints in

preparing a rate filing. The use of more than one cost allocation methodology attempts to
 recognize the level of judgment inherent in performing cost of service studies and provides
 this Commission with a reasonable and useable range of results.

In view of these considerations, and to minimize the potential controversy associated with selecting particular cost allocation methods, I have decided to use two common demand cost allocation methods (the peak method and the peak and average method), with and without a customer component of distribution mains, to determine a range of rate of return values for purposes of evaluating class cost responsibility. I describe that evaluation later in my testimony.

10

## 11 Q. PLEASE DESCRIBE THE SPECIAL STUDIES YOU CONDUCTED FOR 12 PURPOSES OF ALLOCATING OTHER DISTRIBUTION PLANT 13 INVESTMENT?

Regarding the Company's major plant accounts, a combination of direct assignments and 14 A. weighting factors were developed to allocate the following plant accounts: Services - Account 15 No. 380, Meters - Account No. 381, and Industrial Measuring & Regulating Station Equipment 16 17 - Account No. 385. The weighting factors reflect any differences in the unit costs that the customer groups cause the Company to incur. For example, the average cost of a meter to serve 18 19 a Residential Service customer was approximately \$187.00, compared to the average cost of a 20 meter to serve a Medium General Service customer of approximately \$1,246.00. In addition, the cost of a service line which could serve a residential customer costs less, on a per unit basis, 21 22 than the cost of a service line to serve an industrial service customer. The use of weighting

1		factors takes these unit cost differences into account when assigning costs to these two
2		customer classes.
3		
4	Q.	PLEASE DESCRIBE THE METHOD USED TO ALLOCATE RESERVE FOR
5		DEPRECIATION AND DEPRECIATION EXPENSES?
6	A.	These items were allocated on the same basis as their associated plant accounts.
7		
8	Q.	HOW WERE DISTRIBUTION-RELATED OPERATION AND MAINTENANCE
9		EXPENSES ALLOCATED IN THE COMPANY'S CLASS COST OF SERVICE
10		STUDY?
11	A.	In general, these expenses were allocated on the basis of the cost allocation methods used for
12		the Company's corresponding plant accounts. A utility's operation and maintenance expenses
13		generally are thought to support the utility's corresponding plant-in-service accounts. That is,
14		the existence of the particular plant facilities necessitates the incurrence of cost (i.e., expenses)
15		by the utility to operate and maintain those facilities. As a result, the allocation basis used to
16		allocate a specific plant account will be the same basis as used to allocate the corresponding
17		expense account. For example, Maintenance of Services - Account No. 892, is allocated on the
18		same basis as its investment in Services - Account No. 380. With the Company's detailed
19		analyses supporting its assignment of plant in service components, where feasible, it was
20		deemed appropriate to rely upon those results in allocating related expenses in view of the
21		overall conceptual acceptability of such an approach.
22		

## Q. HOW WERE THE COSTS OF THE COMPANY'S GATHERING SYSTEM ALLOCATED IN ITS COST OF SERVICE STUDIES?

3 A. Peoples' gathering system is used to transport gas supplies delivered to its gas distribution system for its system supply and its end-use customers from local production facilities 4 located within its service area. The plant and associated expenses for Peoples' gathering 5 6 system were allocated to its classes of service based on the percentage of annual gas volumes in each class supplied by Pennsylvania gas producers that moved through the 7 Company's gathering system. It is important to note that a portion of the costs of Peoples' 8 gathering system allocated to its classes of service was effectively assigned to the local gas 9 producers connected to Peoples' gas system by crediting the revenues proposed to be 10 generated from the gathering services provided by Peoples to the same rate classes that 11 received an allocated portion of Peoples' gathering cost of service. 12

13

#### 14 Q. HOW WERE THE COSTS OF THE COMPANY'S UNDERGROUND STORAGE

15

#### FACILITIES ALLOCATED IN ITS COST OF SERVICE STUDIES?

A. Peoples currently owns and operates the Dice Storage Field, which has 1,530,000 Mcf of storage 16 17 capacity and 32,000 Mcf of maximum daily withdrawal capacity. Peoples' underground storage is used to generally support the unplanned daily balancing requirements of its sales and 18 19 transportation service customers. Based on an historical review of the daily withdrawal activity 20 of this facility, it was determined that gas volumes are primarily withdrawn from this storage facility on most days during the months of December through May. As a result, Peoples' 21 22 storage-related costs were allocated to the rate classes in proportion to the total gas sales and 23 transportation volumes for each class during the six-month period of December through May.

2

#### **Q**. HOW WERE ADMINISTRATIVE AND GENERAL EXPENSES ALLOCATED IN THE COMPANY'S COST OF SERVICE STUDIES? 3

Peoples' cost of service studies allocated these expenses on a specific account-by-account basis 4 A. 5 rather than on an aggregate basis. Specifically, administrative and general expenses of a utility 6 typically pertain to the following expense categories: (1) labor; (2) plant or rate base; (3) O&M expenses; or (4) some combination of the above categories. In the Company's cost of service 7 study, each of its administrative and general accounts was related to one or more of these 8 9 categories. These categories were then used as a basis to establish an appropriate allocation factor for each account. The allocation factors chosen were broad-based to specifically 10 recognize the Company-wide nature of administrative and general expenses. 11

Specifically, supervision, office supplies and expenses, administrative expenses 12 transferred (Account Nos. 920, 921 and 922) and employee pensions and benefits (Account 13 14 No. 926) were allocated using a labor-related allocation factor derived based on all labor costs incurred by the Company. Similarly, the plant and O&M allocation factors discussed above 15 were derived based on the Company's total plant investment and total O&M expenses, 16 17 respectively. For example, total plant in service by function was used to allocate property insurance (Account No. 924) and injuries and damages (Account No. 925) to the rate classes. 18 19 Outside services (Account No. 923) include support activities provided to Peoples 20 directly by its outside service providers and internal service organization. These activities generally relate to various general business functions that support the Company's gas utility 21 22 operations. Due to the general nature of these costs and their corporate-wide applicability, these

1

3

## 4 Q. HOW WERE TAXES OTHER THAN INCOME TAXES ALLOCATED IN THE 5 COMPANY'S COST OF SERVICE STUDIES?

reflecting labor-related costs across all of Peoples' cost accounts.

costs were allocated to the Company's customer classes using a labor-based allocation factor

6 А Peoples' cost of service studies allocated these expenses in a manner to reflect the specific cost causative factors associated with the Company's specific tax expense categories. Specifically, 7 these taxes can be cost classified based on the tax assessment method established for each tax 8 category (i.e., property and payroll). As a result, taxes other than income taxes of a utility 9 typically can be grouped into the following categories: (1) plant; (2) labor; and (3) gas supply-10 related. In the cost of service study, each of Peoples' taxes other than income taxes accounts 11 was related to one of the above stated categories. These categories were then used as a basis 12 to establish an appropriate allocation factor for each tax account. 13

14

### 15 Q. HOW WERE INCOME TAXES ALLOCATED IN THE COMPANY'S COST OF 16 SERVICE STUDIES?

A. Income Taxes were allocated to each rate class based on its net income before federal and state
income taxes at present rates. This approach made certain that the income tax assigned to
each rate class reflected the proper weighting of class revenues, previously allocated expenses
and the various adjustments made by the Company for tax computation purposes. The
component of income tax expenses based on the tax deferral created by investments in plant was
allocated to each customer class based on the class' allocation of Gross Plant.

1		Income Taxes included in the change in revenue requirements were computed directly by
2		grossing up the required return on rate base at the expected effective tax rate. The additional
3		Income Taxes were then allocated to each customer class based on its proposed net income
4		multiplied by the new effective tax rate.
5		
6	Q.	PLEASE DISCUSS THE RESULTS OF THE COMPANY'S COST OF SERVICE
7		STUDIES.
8	A.	Referring to IV-B-1(E) of Exhibit 11, Schedule 1, the following cost of service study results
9		at present rates for the future test year are indicated:
10		1. Residential Service exhibits a below average rate of return under the cost of
11		service study based on a design day demand allocation method with a customer
12		component of distribution mains, and a slightly above average rate of return
13		under the cost of service study based on a peak and average demand allocation
14		method.
15		2. Small General Service exhibits an average rate of return under the cost of
16		service study based on a design day demand allocation method with a customer
17		component of distribution mains, and a below average rate of return under the
18		cost of service study based on a peak and average demand allocation method.
19		3. Medium General Service exhibits an above average rate of return under the cost
20		of service study based on a design day demand allocation method with a customer
21		component of distribution mains, and a slightly above average rate of return
22		under the cost of service study based on a peak and average demand allocation
23		method.

1		4. Large General Service exhibits an above average rate of return under the cost
2		of service study based on a design day demand allocation method with a customer
3		component of distribution mains, and a below average rate of return under the
4		cost of service study based on a peak and average demand allocation method.
5		
6	Q.	PLEASE DESCRIBE THE CONTENTS OF EXHIBIT 11 SCHEDULE 4.
7	A.	Exhibit 11, Schedule 4 which consists of 53.53 IV-B-9 - Cost Analysis Supporting Minimum
8		Charges for All Rate Schedules - presents the components of the customer-classified costs
9		for each of Peoples' customer classes. This information is extracted from the cost of
10		service studies which are presented in Exhibit 11, Schedule 1.
11		
12	Q.	HAVE YOU ALSO PREPARED A MINIMUM CUSTOMER ANALYSIS THAT
12 13	Q.	HAVE YOU ALSO PREPARED A MINIMUM CUSTOMER ANALYSIS THAT RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES
	Q.	
13	<b>Q.</b> A.	RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES
13 14		RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES AND PRECEDENTS ADDRESSING THIS ISSUE?
13 14 15		<b>RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES</b> <b>AND PRECEDENTS ADDRESSING THIS ISSUE?</b> Yes. While I believe that the Company's customer cost analysis presented in Exhibit 11,
13 14 15 16		RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES AND PRECEDENTS ADDRESSING THIS ISSUE? Yes. While I believe that the Company's customer cost analysis presented in Exhibit 11, Schedule 4 is the most appropriate method to derive a gas utility's customer-related cost of
13 14 15 16 17		RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES AND PRECEDENTS ADDRESSING THIS ISSUE? Yes. While I believe that the Company's customer cost analysis presented in Exhibit 11, Schedule 4 is the most appropriate method to derive a gas utility's customer-related cost of service for purposes of setting its monthly customer charges, I do recognize that in the past
13 14 15 16 17 18		RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES AND PRECEDENTS ADDRESSING THIS ISSUE? Yes. While I believe that the Company's customer cost analysis presented in Exhibit 11, Schedule 4 is the most appropriate method to derive a gas utility's customer-related cost of service for purposes of setting its monthly customer charges, I do recognize that in the past this Commission has relied, at least in part, on a minimum customer analysis approach that
13 14 15 16 17 18 19		RELIES UPON THIS COMMISSION'S PAST REGULATORY PREFERENCES AND PRECEDENTS ADDRESSING THIS ISSUE? Yes. While I believe that the Company's customer cost analysis presented in Exhibit 11, Schedule 4 is the most appropriate method to derive a gas utility's customer-related cost of service for purposes of setting its monthly customer charges, I do recognize that in the past this Commission has relied, at least in part, on a minimum customer analysis approach that excludes certain costs that, in my opinion, are also appropriately classified as customer-

2

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#### 3

## 4 Q. HOW CAN COST OF SERVICE STUDY RESULTS SUCH AS THESE PROVIDE 5 GUIDELINES FOR RATE DESIGN?

should be equal to at least \$24.41 per month.

level of the monthly customer charge for the Company's Residential Service rate class

6 А Results of a cost of service study provide cost guidelines for use in evaluating class revenue levels and class rate structures. With regard to rate class revenue levels, the rate of return 7 results show that certain rate classes are being charged rates that recover less than their 8 indicated costs of service. Obviously, because this condition exists, rates for other rate classes 9 provide for recovery of more than the indicated costs of serving these other rate classes. By 10 adjusting rates in accordance with the cost study, rate class revenue levels can be brought 11 closer in line with the indicated costs of service resulting in movement of rate class rates of 12 return toward the system average rate of return and resulting in rates that are more in line 13 14 with the cost of providing service.

15 Concerning cost justification of rates within each rate class, the classified costs, as 16 allocated to each class of service in the cost study, provide cost information that can be of 17 assistance in determining the need for changes in the relative levels of demand charges (if they 18 exist), customer and commodity rate block charges.

19

## 20 Q. ARE THE RESULTS OF A GAS UTILITY'S COST OF SERVICE STUDY 21 ALWAYS RELEVANT TO ALL TYPES OF SERVICE?

A. No. This situation applies to Peoples' competitively situated customers, where rates are
based on their competitive characteristics. For these customers, the price the customer is

willing to pay for gas delivery service relative to available alternatives has much more 1 influence on the relative profitability (i.e., rate of return on net rate base) than cost causation 2 does, as measured by a gas utility's cost of service study. This view is shared by NARUC 3 in its Gas Rate Design Manual, where it states that "[s]etting rates based on value of service 4 bears little relationship to setting them based on cost of service. When using value of 5 6 service principles, we normally look not to the cost of the utility providing the service, but rather to the cost of alternatives available to the customer." Therefore, the guidelines I 7 discussed above are most useful when evaluating the costs to serve customers in the 8 Company's RS, SGS and MGS rate classes, and less useful when evaluating its LGS rate 9 class which includes most of the Company's competitively situated customers who are 10 priced on a negotiated (i.e., value of service) basis. In addition, as I pointed out earlier in 11 my testimony, cost of service study results for Peoples' gathering service to local gas 12 producers (other than the derivation of Peoples' total functionalized cost of gathering) do 13 14 not provide the sole basis for adjustments to the current level of rates for this service.

15

## 16 Q. PLEASE EXPLAIN HOW THE UNIT COST RESULTS PRESENTED IN 17 EXHIBIT 11, SCHEDULE 1 WERE PREPARED.

A. Black & Veatch's COSS Model compiles the functionalized, classified and allocated expenses
 and rate base data for each class of service. The system average rate of return is applied to the
 allocated rate base to determine the required net income. This is then grossed up to account
 for the income tax related revenue responsibilities. The sum of the expense related revenue
 requirement and the rate base related revenue requirement yields the total revenue requirement
 for each component of cost at the system average rate of return. The computer model makes

this calculation for each of the various cost components (i.e., the customer, demand and
commodity portions of the supply, gathering, storage, and distribution functional categories).
The functionally classified costs are unitized by dividing the total costs by the appropriate
number of billing units. Customer-related costs are divided by the number of bills, demandrelated costs are divided by the contribution to peak demand and commodity-related costs are
divided by the number of Mcf delivered. It should be noted that a monthly customer cost is
calculated for each customer class, as well as unit commodity and demand costs.

Page 2 of IV-B-1(A) and IV-B-1(B) (Exhibit 11, Schedule 1) presents the unitized cost
of service study results (at the Company's proposed rate of return on rate base) described
above.

11

#### 12 Q. CAN THESE UNIT COST ANALYSES RESULTS BE USED FOR RATE DESIGN?

A. Yes, if three-part rates (i.e., customer, demand and commodity) were set at the unit cost levels, 13 14 the Company's operating expenses and rate of return on investment based on its pro-forma test year would be recovered (assuming customer counts, gas deliveries and other billing 15 determinants were as projected). The unit cost analyses also provide valuable unbundled cost 16 17 information for the design of portions of the tariff. One of the most obvious applications is the use of unbundled cost information for establishing cost-based monthly customer charges. For 18 19 example, Peoples' cost of service studies show that a full cost-based customer charge for its 20 Residential Service class is supportable within a range of between \$24.21 and \$34.41 per month. The unit cost analysis could also be used to establish separately metered contract 21 22 demand charges where the cost of demand metering can be justified or where a reasonable 23 method of estimating customer demands can be derived.

1

## 2 Q. DOES PEOPLES' COST OF SERVICE STUDY DERIVE THE TOTAL 3 FUNCTIONALIZED COST OF ITS GATHERING SYSTEM?

Yes. The functionalization phase of Peoples' cost of service study identifies the specific 4 A. 5 plant components and expenses that comprise the gathering function and allocates other 6 indirect costs that are necessary to support the gathering function. This process determines Peoples' fully loaded cost of gathering service. Peoples Exhibit RAF-3 summarizes the 7 rate base, expenses, rate of return on rate base (as proposed) and federal income taxes that 8 comprise Peoples' total gathering cost of service. These cost components are derived from 9 the cost of service study presented in Exhibit 11, Schedule 1, IV-B-1(A), Pages 13 to 22, 10 which provides each of the detailed plant and expense components that comprise Peoples' 11 gathering function. As a point of comparison, **Peoples Exhibit RAF-3** also provides Peoples' 12 gathering service revenues at present and proposed rates. 13

- 14
- 15

#### PEOPLES' PROPOSED CLASS REVENUES

## Q. PLEASE DESCRIBE THE APPROACH GENERALLY FOLLOWED TO ALLOCATE PEOPLES' PROPOSED REVENUE INCREASE OF \$93.1 MILLION TO ITS VARIOUS RATE CLASSES.

A. As described earlier, the apportionment of revenues among rate classes consists of deriving a
 reasonable balance between various criteria or guidelines that relate to the design of utility
 rates. The various criteria that were considered in the process included: (1) cost of service; (2)
 class contribution to present revenue levels; and (3) customer impact considerations. These
 criteria were evaluated for each of the Company's rate classes. Based on this evaluation,

1

adjustments to the present revenue levels in certain rate classes were made so that the rates proposed by Peoples moved class revenues closer to the costs of serving those rate classes.

3

## 4 Q. DID YOU CONSIDER VARIOUS CLASS REVENUE OPTIONS IN CONJUNCTION 5 WITH YOUR EVALUATION AND DETERMINATION OF PEOPLES' 6 INTERCLASS REVENUE PROPOSAL?

Yes. Using Peoples' proposed revenue increase, and the range of results from its cost of service 7 A. studies, I evaluated various options for the assignment of that increase among its rate classes 8 and, in conjunction with Company personnel and management, ultimately decided upon one 9 of those options as the preferred resolution of the interclass revenue issue. Pages 1 and 2 of 10 **Peoples Exhibit RAF-4** provide two reference points based on the cost of service studies 11 presented by Peoples. In each case, I adjusted the revenue level for each rate class so that each 12 would produce the proposed rate of return and the relative rate of return on net rate base for 13 each class equal to 1.00. Page 1 of this Exhibit presents these results for Peoples' cost of 14 service study based on the design day demand cost allocation method with a customer 15 component of distribution mains. The second point of reference I considered in the evaluation 16 17 was the midpoint of the results of Peoples' two cost of service studies to recognize the range of results that I discussed earlier in my testimony. Page 2 of this Exhibit provides the 18 underlying computations for this option. 19

The analyses presented on Pages 1 and 2 of **Peoples Exhibit RAF-4** were carried forward to Tables 1 and 2 on Page 3 of this Exhibit. The results in Table 1 indicated that revenue increases were required for Peoples' RS and SGS classes, and that revenue decreases were required for its MGS and LGS classes. As a matter of judgment, I decided that this fully

cost-based option was not the preferred solution to the interclass revenue issue. It should be
 pointed out, however, that those results represented an important guide for purposes of
 evaluating subsequent rate design options from a cost of service perspective. The results in
 Table 2 provided another point of reference, although the midpoint of Peoples' two cost of
 service studies is not the best representation of the costs of serving Peoples' customers for the
 reasons I discussed earlier in my testimony.

The second option I considered was assigning the increase in revenues to Peoples' rate 7 classes based on an equal percentage basis of its current base revenues. This option is presented 8 9 in Table 3 on Page 3 of this Exhibit. Obviously, this option resulted in each rate class receiving an increase in revenues. However, when this option was evaluated against the cost of service 10 study results (as measured by changes in the rate of return on net rate base for each rate class); 11 there was only modest movement towards cost for most of Peoples' rate classes (i.e., the 12 resulting rates of return only slightly converged to unity or 1.00). In addition, it is important 13 14 to recognize that because most of the Company's competitively situated customers are included in the LGS rate class, any increase in class revenues could not be recovered from such 15 While this option also was not the preferred solution to the interclass revenue 16 customers. 17 issue, together with the fully cost-based option presented in Table 1 and the midpoint of the cost of service study results presented in Table 2, it defined a range of results that provided me 18 19 with further guidance to develop Peoples' class revenue proposal.

20

## Q. BEFORE CONTINUING, CAN YOU PLEASE EXPLAIN THE TERMS "NON-GAS REVENUE" AND "MARGIN" THAT ARE USED IN PEOPLES EXHIBIT RAF-4?

**Peoples Statement No. 11** 

A. Yes. The terms 'non-gas revenue" and "margin" are used synonymously when discussing a
 utility's ratemaking process. Peoples non-gas revenue or margin refers to the revenue amount
 necessary to recover its total cost of service, other than the costs of natural gas that are normally
 recovered through the Commission's 1307(f) proceedings. The total non-gas revenue
 proposed by Peoples in this proceeding is approximately \$490.9 million, which is the targeted
 amount upon which Peoples' proposed class revenues and rates are designed.

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### 8

#### Q. WHAT WAS THE NEXT STEP IN THE PROCESS?

9 After further discussions with the Company, I concluded that an appropriate interclass revenue A. proposal would assign greater than average increases to the rate classes that exhibited the 10 greatest revenue deficiencies relative to the costs to serve these rate classes, as derived in the 11 Company's cost of service studies. Pages 1 and 2 of **Peoples Exhibit RAF-4** show that its 12 Residential Service rate class exhibited a relative rate of return on net rate base below 1.00 at 13 14 present rates under both the cost of service study based on the design day demand method with a customer component of distribution mains and the combination (midpoint) of Peoples' two 15 cost of service studies. For rate classes that exhibited revenue surpluses or a relative rate of 16 17 return on net rate base above 1.00, the Medium General Service and Large Volume Service rate classes, I determined that a smaller than average increase in non-gas revenues was 18 19 warranted. Finally, I assigned the average increase in non-gas revenues (i.e., 23.9%) to the rate 20 class whose relative rates of return on net rate base was closer to 1.00 (Small General Service) 21 compared to the other rate classes.

This approach resulted in reasonable movement of the class relative rates of return on net rate base towards unity or 1.00. That result is reflected in Table 4 on Page 4 of **Peoples** 

**Exhibit RAF-4**, wherein the relative rates of return on net rate base are shown to converge 1 towards unity or 1.00 compared to the same measure calculated under present rates. In 2 addition, the amounts of the existing rate subsidies among the Company's rate classes were 3 generally reduced. From a class cost of service standpoint, this type of class movement, and 4 reduction in class rate subsidies, is desirable to move class revenues and rates closer to the 5 6 indicated cost of service for each rate class. It should be noted that these increase amounts are designated as targets because certain pricing considerations needed to be accommodated in the 7 actual design of the Company's proposed rates (e.g., achieving rate equivalence between the 8 Company's sales and transportation services), the actual revenue increases by rate class varied 9 from the target amounts based on the actual revenues generated from the final rates. 10

11

YOU MENTIONED EARLIER THAT BECAUSE THE COMPANY HAS 12 **Q**. COMPETITIVELY SITUATED CUSTOMERS INCLUDED IN ITS SGS, MGS 13 AND LGS RATE CLASSES, ANY INCREASE IN CLASS REVENUES ASSIGNED 14 TO THOSE RATE CLASSES COULD NOT BE RECOVERED FROM SUCH 15 CUSTOMERS. HOW WILL THE OTHER CUSTOMERS IN THESE RATE 16 17 CLASSES WHO ARE CHARGED FOR GAS SERVICE UNDER THE COMPANY'S STANDARD RATES BE IMPACTED BY THE INCREASES IN 18 19 **REVENUES TO THESE RATE CLASSES UNDER THE COMPANY'S** 20 **INTERCLASS REVENUE PROPOSAL?** 

A. The standard rates to these other customers were increased to recover the entirety of the revenue increase assigned to each of these three rate classes. In doing so, the Company was mindful of the unique customer impact considerations in these rate classes recognizing the

1		fewer number of customers and decreased level of gas volumes under which any revenue
2		increase could be recovered through the Company's standard rates. As such, it is important
3		to understand that any greater level of revenue sought from these rate classes will have a
4		disproportionate impact on the level of the Company's standard rates proposed for these rate
5		classes.
6		
7		PEOPLES' PROPOSED RATE DESIGN
8	Q.	CAN YOU PLEASE DESCRIBE THE KEY OBJECTIVES YOU SOUGHT TO
9		ACHIEVE IN THE DESIGN OF PEOPLES' PROPOSED RATES?
10	A.	Yes. In general, I sought to achieve the following objectives with the rate design (the design
11		of rates to recover the level of allocated costs from each class) that was proposed for
12		Peoples:
13		• Achieve fair and equitable rate levels (reflective of the cost to serve).
14		• Avoid undue discrimination between and within rate classes.
15		• Rates should be stable, understandable, and provide customer choices.
16		• Create economically efficient pricing for natural gas delivery service.
17		• Rates should encourage energy conservation and energy efficiency.
18		• Rates should allow a utility to recover its revenue requirement in a manner that
19		maintains revenue stability and minimizes year-to-year under or over-collections.
20		
21	Q.	PLEASE DESCRIBE HOW YOU DERIVED THE RATES APPLICABLE TO
22		RESIDENTIAL CUSTOMERS UNDER PEOPLES' SALES RATE SCHEDULE
23		RATE RS AND TRANSPORTATION RATE SCHEDULE RATE GS-T.

А My first step was to set the monthly customer charge. I accomplished this based on the 1 results of the minimum customer cost analysis presented in **Peoples Exhibit RAF-2** and 2 the customer costs derived in the unit cost analysis presented in Exhibit 11, Schedule 1 that 3 was described earlier in my testimony. These documents present customer cost 4 analyses that support a residential customer charge of between \$24.41 and \$34.41per 5 6 month. Based on this cost information, I set the residential monthly customer charge at \$20.00. This is an increase of \$6.05 and \$6.75 per month for customers in the Peoples and 7 Equitable Divisions, respectively. I believe these proposed changes represent the minimum 8 increases the Commission should consider adopting in this proceeding for Peoples' 9 residential monthly customer charge in view of the materially higher customer-related costs 10 indicated above. It is appropriate to recover customer costs through the customer 11 charge because these costs do not change with usage and it provides more levelized 12 annual revenues for the Company and reduces winter bills for customers when gas 13 14 consumption charges are greatest.

In the next step I developed the residential delivery charge. I considered the 15 recovery of non-gas costs from the Merchant Function Charge - Rider E, the Universal 16 17 Service Charge - Rider F, Rider Supplier Choice, and the Gas Procurement Charge - Rider G, and then I designed rates to recover the remaining non-gas costs through the 18 delivery charge. The resulting proposed residential delivery charge applicable to both 19 20 sales and transportation customers is \$3.8753/Mcf. Pages 1 and 6 of Peoples Exhibit RAF-5 provide a summary of the proposed residential base rate charges and all 21 22 applicable tariff riders. Column (1) of this Exhibit shows the proposed monthly 23 customer charge and delivery charge.

1

## 2 Q. IS PEOPLES PROPOSING TO CHANGE THE GENERAL STRUCTURE OF ITS 3 CURRENT RATES FOR NON-RESIDENTIAL CUSTOMERS IN THE 4 PEOPLES DIVISION?

- A. Yes. Peoples has proposed to eliminate the commercial and industrial rate designations in
  each of its non-residential tariffs (i.e., the Small General Service, Medium General Service
  and Large General Service sales and transportation rate classes) for its Peoples Division.
- 8

### 9 Q. PLEASE EXPLAIN WHY PEOPLES HAS PROPOSED THIS CHANGE.

Peoples has proposed this change to recognize that the end-use designation of a general 10 A service customer as commercial or industrial does not influence the underlying cost 11 characteristics upon which rates should be based. Instead, a customer's load characteristics 12 (e.g., annual gas consumption, peak usage, annual load factor) have a direct 13 influence on the cost of serving the customer and should be recognized when setting rates 14 within a class of service. Assessing monthly customer charges and volumetric delivery 15 charges to customers based on their gas consumption levels rather than on their end-16 17 use designations provides a better reflection in rates of the cost to serve.

18

# Q. IN DERIVING THE RATES APPLICABLE TO CUSTOMERS OTHER THAN PEOPLES' RESIDENTIAL CUSTOMERS, WAS IT NECESSARY TO ADDRESS POTENTIAL RATE IMPACTS TO CERTAIN INDUSTRIAL CUSTOMERS ASSOCIATED WITH THE ELIMINATION OF THE COMMERCIAL AND

## INDUSTRIAL RATE DESIGNATIONS IN THE CURRENT TARIFF OF THE PEOPLES DIVISION?

A. Yes. Since the current delivery rate levels of industrial customers in the Peoples Division
 are much lower compared to the delivery rate levels of comparable sized commercial
 customers, the elimination of the commercial and industrial rate designations will cause
 disproportionate increases to the rate levels for industrial customers in the Peoples
 Division. As a result, it was necessary to propose a rate impact mitigation approach in this
 proceeding for the industrial customers in the Peoples Division.

After the completion of this rate case, Peoples' proposes to maintain the current rate 9 distinction for the industrial customers in the Peoples Division (designated as Peoples' 10 Transitional Industrial Ratepayers) who took gas service as of the effective date of Peoples' 11 new rates approved in this rate case to be able to recognize the lower current rate levels for 12 these customers relative to those of similarly sized commercial customers (and industrial 13 14 customers in the Equitable Division) when applying the proposed revenue increases for the SGS, MGS and LGS rate classes (for both sales and transportation service customers). It is 15 Peoples' expectation that in a future rate case, the remaining rate differential between its 16 17 Transitional Industrial Ratepayers and commercial customers to achieve rate parity will be eliminated. Peoples witness Carol Scanlon (Peoples Statement No. 5) discusses the tariff 18 19 changes that are required to implement this rate impact mitigation proposal.

20

## Q. HOW DID YOU DETERMINE THE DEGREE TO WHICH THE CURRENT DELIVERY CHARGES OF PEOPLES' TRANSITIONAL INDUSTRIAL RATEPAYERS SHOULD BE INCREASED TO MOVE TOWARDS RATE

## PARITY WITH PEOPLES' OTHER CUSTOMERS IN THE SGS, MGS AND LGS RATE CLASSES?

A. This was accomplished by examining the percentage increases in delivery charges in the
 SGS, MGS and LGS rate classes for Peoples' Transitional Industrial Ratepayers, its
 commercial customers and customers in the Equitable Division necessary to achieve the
 proposed revenue increases by rate class discussed earlier in my testimony. The number
 of Transitional Industrial Ratepayers in each of these rate classes also influenced the
 decision on the degree to which the delivery charges to these customers would be increased
 to move towards rate parity with the delivery charges of the other customer groups.

Based on this information and the application of the principle of gradualism, I 10 established general guidelines which I used to adjust the current delivery charges for 11 Peoples' Transitional Industrial Ratepayers to balance the resulting rate impacts with the 12 goal of moving towards rate parity. For the SGS rate class, the proposed increase in 13 14 the delivery charge to Peoples' Transitional Industrial Ratepayers approximated 1 <sup>1</sup>/<sub>2</sub> times the percent increase in revenues proposed for this rate class (approximately 26% on a non-15 gas or margin revenue basis). This approach resulted in the current delivery charge for 16 17 Peoples' Transitional Industrial Ratepayers moving about 65 percent of the way to rate parity. For the MGS and LGS rate classes, the proposed increases in the 18 19 delivery charges to Peoples' Transitional Industrial Ratepayers were established to 20 move their rate levels between about 45 and 65 percent toward rate parity with Peoples' other two customer groups in the particular rate class. 21 I believe these 22 proposed rate adjustments result in a reasonable balancing of the objectives sought 23 to be achieved for Peoples' Transitional Industrial Ratepayers.

1

# Q. PLEASE DESCRIBE HOW YOU DERIVED THE RATES APPLICABLE TO SMALL GENERAL SERVICE CUSTOMERS UNDER PEOPLES' SALES RATE SCHEDULE RATE SGS AND TRANSPORTATION RATE SCHEDULE RATE GS-T.

6 A My first step was to set the monthly customer charges. I accomplished this based on the results of the minimum customer cost analysis presented in **Peoples Exhibit RAF-2** and 7 the customer costs derived in the unit cost analysis presented in Exhibit 11, Schedule 1 that 8 was described earlier in my testimony. These documents present customer cost analyses 9 that support an SGS customer charge of between \$24.28 and \$34.00 per month. Based on 10 this information, I set the SGS monthly customer charges at \$25.00 per month (for 11 customers using up to 499 Mcf per year) and \$40.00 per month (for customers using 12 between 500 and 999 Mcf per year). It is appropriate to recover customer cost through the 13 14 customer charge because these costs do not change with usage and it provides more levelized annual revenues for the Company and reduces winter bills for customers 15 when gas consumption charges are greatest. 16

In the next step I developed the SGS delivery charge. I considered the recovery of non-gas costs from the Merchant Function Charge - Rider E, Rider Supplier Choice, and the Gas Procurement Charge - Rider G, and then I designed rates to recover the remaining non-gas costs through the delivery charge. The resulting proposed SGS delivery charge is applicable to both sales and transportation customers. Pages 1 and 6 of **Peoples Exhibit RAF-5** provide a summary of the proposed small general service

**Peoples Statement No. 11** 

1 2 base rate charges and all applicable tariff riders. Column (1) of this Exhibit shows the proposed monthly customer charges and delivery charges.

3

# 4 Q. PLEASE DESCRIBE HOW YOU DERIVED THE RATES APPLICABLE TO 5 MEDIUM GENERAL SERVICE CUSTOMERS UNDER PEOPLES' SALES 6 RATE SCHEDULE RATE MGS AND TRANSPORTATION RATE SCHEDULE 7 RATE GS-T.

My first step was to set the monthly customer charges. I accomplished this based on 8 A. 9 the results of the minimum customer cost analysis presented in Peoples Exhibit RAF-2 and the customer costs derived in the unit cost analysis presented in Exhibit 11, Schedule1 10 that was described earlier in my testimony. These documents present customer cost 11 analyses that support MGS customer charges of between \$61.86 and \$72.72 per month. At 12 the same time, I recognized that Peoples' current monthly customer charges for this rate 13 14 class were \$50.00 and \$77.00 for customers in Peoples Division and \$150.00 and \$300.00 for customers in the Equitable Division. Based on this information, I set the MGS monthly 15 customer charges at \$100.00 per month (for customers using up to 2,499 Mcf per year) 16 17 and \$200.00 per month (for customers using between 2,500 and 24,999 Mcf per year). It is appropriate to recover customer cost through the customer charge because these costs do 18 19 not change with usage and it provides more levelized annual revenues for the Company 20 and reduces winter bills for customers when gas consumption charges are greatest. While these proposed rate levels are above the indicated customer-related costs, they were chosen 21 22 to accommodate the need to significantly decrease the current monthly customer charges

for customers in the Equitable Division and the decision to address this need in a gradual
 manner.

In the next step I developed the MGS delivery charge. I considered the recovery of non-gas costs from the Merchant Function Charge - Rider E, and the Gas Procurement Charge - Rider G, and then I designed rates to recover the remaining nongas costs through the delivery charge. The resulting proposed MGS delivery charge is applicable to both sales and transportation customers.

8 Pages 1, 2, 6 and 7 of Peoples Exhibit RAF-5 provide a summary of the
9 proposed MGS base rate charges and all applicable tariff riders. Column (1) of this
10 Exhibit shows the proposed monthly customer charges and delivery charges.

11

# Q. PLEASE DESCRIBE HOW YOU DERIVED THE RATES APPLICABLE TO LARGE GENERAL SERVICE CUSTOMERS UNDER PEOPLES' SALES RATE SCHEDULE RATE LGS AND TRANSPORTATION RATE SCHEDULE RATE GS-T.

My first step was to set the monthly customer charges. I accomplished this based on 16 A. 17 the results of the minimum customer cost analysis presented in **Peoples Exhibit RAF**-2 and the customer costs derived in the unit cost analysis presented in Exhibit 11, 18 19 Schedule 1 that was described earlier in my testimony. These documents present 20 customer cost analyses that support LGS customer charges of between \$858.66 and \$880.19 per month. At the same time, I recognized that Peoples' current monthly customer 21 22 charges for this rate class ranged between \$443.00 and \$2,009.00 for customers in Peoples 23 Division and \$1,600.00 for customers in the Equitable Division. Based on this information,

I set the LGS monthly customer charges at \$700.00 per month (for customers using up 1 to 49,999 Mcf per year), \$1.300.00 per month (for customers using between 50,000 and 2 99,999 Mcf per year) \$1,400.00 per month (for customers using between 100,000 and 3 199,999 Mcf per year) and \$1,600.00 per month (for customers using over 200,000 Mcf 4 per year). It is appropriate to recover customer cost through the customer charge 5 6 because these costs do not change with usage and it provides more levelized annual revenues for the Company and reduces winter bills for customers when gas 7 consumption charges are greatest. While these proposed rate levels are above the 8 indicated customer-related costs, they were chosen to accommodate the need to 9 decrease the current monthly customer charges for customers in the Equitable 10 Division and for the larger customers in the Peoples Division, and the decision to address 11 this need in a gradual manner. The derivation of the delivery charges for the LGS rate 12 class is described below. 13

14

### 15 Q. HAS PEOPLES PROPOSED TO CHANGE THE CURRENT STRUCTURE OF 16 THE RATE TIERS (RATE BLOCKS) FOR ITS LGS RATE CLASS?

17 A. Yes. Peoples has proposed to increase the number of rate tiers for the delivery charges in
18 the sales and transportation rate schedules for the LGS rate class.

19

Q. WHY HAS PEOPLES PROPOSED TO INCREASE THE NUMBER OF RATE
TIERS (OR RATE BLOCKS) FOR THE DELIVERY CHARGES IN THE SALES
RATE SCHEDULE RATE LGS AND TRANSPORTATION RATE SCHEDULE
RATE GS-T?

А Peoples has proposed this type of rate structure change to accommodate the relatively wide 1 range of customers served in the LGS sales and transportation rate classes and to 2 recognize the significant differences in load characteristics among these customers which 3 directly affects the nature of their cost characteristics. For example, the annual gas 4 consumption of the over 200 customers in the LGS rate class ranges widely from 86 Mcf 5 6 to 8.6 Bcf, with customers' annual load factors ranging between 6% and 88%. These significant variations in load characteristics have a material impact on how, and to what 7 degree, the recovery of fixed, demand-related costs occurs across this diverse a 8 customer base. With this group of customers, a single delivery charge assessed based 9 on a customer's gas consumption would result in some customers being overcharged 10 for the fixed costs associated with providing gas delivery service while others would be 11 undercharged for such service. This occurs because a customer's load factor is a 12 measure of how efficiently the customer utilizes the capacity of the utility's gas system, so 13 the lower the load factor, the less efficient the customer is in using distribution system 14 capacity to satisfy the customer's capacity requirements on a peak day compared to on 15 an average day. The wide range of annual load factors for these customers indicates the 16 17 need for multiple rate tiers to fairly recover Peoples' fixed, capacity-related costs through the delivery rate component for the LGS class. 18

19

## 20 Q. HOW DID YOU DETERMINE THE STRUCTURE OF THE RATE TIERS 21 PROPOSED FOR PEOPLES' LGS RATE CLASS?

A. I used as a starting point the four (4) rate tiers that exist in the LGS sales and transportation
rate schedules (Rate Schedules LGS and GS-T) to assess the monthly customer charges to

customers. Then, I added two (2) additional rate tiers to accommodate the largest customers in the LGS rate class who use greater than 750,000 Mcf per year and greater than 2,000,000 Mcf per year. In general, the annual load factors of the LGS customers increase across these rate tiers which is indicative of the need to establish the delivery charge of each successive rate tier at a level that is less than the delivery charge for the previous rate tier to properly reflect the lower unit capacity (demand) cost of serving customers as their annual load factors increase.

8

## 9 Q. HOW WAS THE PROPOSED DELIVERY CHARGE FOR EACH RATE TIER 10 DERIVED?

The delivery charge for the 100,000 to 199,999 Mcf rate tier (which is the rate tier that A. 11 includes the annual gas consumption of the average LGS customer) was based on the 12 proposed class revenues for the LGS rate class after first excluding the revenues derived 13 14 from the proposed monthly customer charges and applicable rate riders. Then, the delivery charges for the first two rate tiers were scaled up and the delivery charges for the 15 last three rate tiers were scaled down from the third-tier (100,000 to 199,999 Mcf) 16 17 delivery charge to reflect the relative variation in customer load factors between rate tiers and level of gas consumption in each rate tier. The final step was to slightly adjust the 18 19 delivery charge levels in the first tiers of the rate to align with the delivery charge levels 20 proposed in the MGS rate class, so they would be reflective of the relatively higher customer load factors (and lower unit demand costs) in the LGS rate class compared to 21 those in the MGS rate class. 22

1		Pages 2-5 and 7-10 of <b>Peoples Exhibit RAF-5</b> provide a summary of the proposed
2		large general service base rate charges and all applicable tariff riders. Column (1) of this
3		Exhibit shows the proposed monthly customer charges and delivery charges.
4		
5	Q.	HAVE YOU PREPARED A BILL COMPARISON WHICH SHOWS THE IMPACT
6		OF PEOPLES' PRESENT AND PROPOSED RATES ON THE GAS BILLS OF
7		THE AVERAGE-SIZED CUSTOMER IN EACH RATE CLASS?
8	A.	Yes. Exhibit 11, Schedule 8 (53.53 IV-B-12) presents bill comparisons for each of
9		Peoples' retail rate classes for the Peoples and Equitable Divisions. This document presents
10		an annual bill comparison for a typical customer in each rate class.
11		
12	Q.	HAVE YOU ALSO PREPARED A MONTHLY BILL COMPARISON FOR
13		PEOPLES' RESIDENTIAL CUSTOMERS?
14	A.	Yes. Peoples Exhibit RAF-6 presents monthly bill comparisons for Peoples' residential
15		customers served in its Peoples and Equitable Divisions.
16		
17	Q.	WHAT DOES THIS ANALYSIS SHOW FOR RESIDENTIAL
18		CUSTOMERS IN THE PEOPLES DIVISION?
19	A.	Peoples' proposed rate design will increase the average customers' gas bills in the
20		summer months, when customer bills are at their lowest levels, and will moderate the
21		increase in customer's bills in the winter months, when bills are at their highest levels. This
22		benefit is depicted on Page 1 of Peoples Exhibit RAF-6. This Exhibit shows that the
23		annual gas bill for the average residential customer in the Peoples Division using 86 Mcf

per year is proposed to increase by approximately 14.1%, with a lower percentage
increase to monthly bills in March of 10.9% (during the month of highest gas
consumption and highest bills) and a higher percentage increase to monthly bills in
September of 25.6% (during the month of lowest gas consumption and lowest bills).

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### 6

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### Q. WHAT DOES THIS ANALYSIS SHOW FOR RESIDENTIAL CUSTOMERS IN THE EQUITABLE DIVISION?

Like the results described above, Peoples' proposed rate design will increase the 8 A. 9 average customers' gas bills in the summer months, when customer bills are at their lowest levels, and will moderate the increase in customer's bills in the winter months, 10 when bills are at their highest levels. This benefit is depicted on Page 2 of **Peoples Exhibit** 11 **RAF-6.** This Exhibit shows that the annual gas bill for the average residential customer in 12 the Peoples Division using 86 Mcf per year is proposed to increase by 13 14 approximately 19.7%, with a lower percentage increase to monthly bills in March of 15.9% (during the month of highest gas consumption and highest bills) and a higher percentage 15 increase to monthly bills in September of 33.3% (during the month of lowest gas 16 17 consumption and lowest bills).

- 18
- 19

## 20 Q. PLEASE DESCRIBE HOW THE PROPOSED CHARGES FOR PEOPLES' 21 GENERAL SERVICE – STANDBY TARIFF (RATE GS-SB) WERE DERIVED.

A. The proposed non-gas charges for Peoples' standby service tariff were established basedon the same proposed monthly customer charges that were derived for the Residential

Service, Small General Service and Medium General Service rate classes. Under
 Peoples' proposed standby service tariff, the standby customer charge shall be the
 monthly customer charge otherwise applicable under other rate schedules.

4

### 5 Q. PLEASE DESCRIBE HOW YOU DERIVED PEOPLES' MERCHANT 6 FUNCTION CHARGE UNDER RIDER E.

Peoples' Merchant Function Charge (MFC) under Rider E was derived based on the gas A. 7 cost portion on uncollectible expenses incurred by Peoples. Peoples Exhibit RAF-7 8 provides details of the supporting calculations. Peoples proposes to revise the MFC to 9 reflect updated write-off factors by customer class. The MFC applicable to Residential 10 Service (RS) customers is calculated based on the updated residential write-off factor of 11 2.49%. The MFCs applicable to commercial and industrial customers under Rates SGS, 12 MGS and LGS are based on the updated combined commercial write-off factor of 13 14 0.21%. The derivation of the updated write-off factors used in these calculations is supported by Peoples' witness Andrew Wachter (Peoples Statement No. 3) 15

16

## 17 Q. PLEASE DESCRIBE HOW YOU DERIVED PEOPLES' GAS PROCUREMENT 18 CHARGE UNDER RIDER G.

A. Peoples' Gas Procurement Charge (GPC) under Rider G was derived to reflect the cost
elements approved by the Commission for this charge. Peoples Exhibit RAF-8 provides
details of the supporting calculations. The proposed GPC is \$0.0801/Mcf. The costs
included in the derivation of the GPC are: (1) internal labor and benefits costs incurred to
provide gas supply services (personnel responsible for the planning, scheduling and

purchasing of gas), and to provide legal, regulatory and accounting support services; (2)
outside legal services; (3) working capital storage inventory costs; and (4) capital costs
related to the portion of the Information Technology (IT) systems used to support the gas
procurement function. This cost analysis excludes labor and benefits costs for the gas
supply, legal, regulatory and accounting functions that support Peoples' combined sales
and transportation programs such as storage and transportation capacity management and
local gas management.

8

## 9 Q. PLEASE DESCRIBE HOW YOU DERIVED THE FEES CHARGED TO 10 NATURAL GAS SUPPLIERS.

A. The proposed pricing of Peoples' supplier-related services was based on the results of an 11 analysis that quantified and compared the costs and revenues at current rates for billing 12 services under Supplier Billing Service - Rate SBS. Peoples Exhibit RAF-9 presents the 13 results of this comparison and the calculations of the revenue requirement for 14 consolidated billing services. Only incremental billing costs were included in this cost 15 analysis because all other billing-related costs are already incurred by Peoples to render 16 17 bills on behalf of its sales and transportation service customers. This exhibit shows that revenues at present rates exceed the revenue requirement for these services by \$55,259. 18 19 Based on this result, Peoples has proposed to maintain the consolidated billing services fee 20 for the Peoples Division at \$0.15 per customer per month, and to reduce its fee for the Equitable Division from \$0.30 to \$0.15 per customer per month. 21

22

**Peoples Statement No. 11** 

1	Q.	PLEASE DESCRIBE HOW YOU DERIVED PEOPLES' PURCHASE OF
2		RECEIVABLES – ADMINISTRATIVE ADDER.
3	A.	Peoples' Purchase of Receivables (POR) – Administrative Adder was derived to reflect the
4		incremental costs incurred by Peoples to implement the POR program. Peoples Exhibit
5		RAF-10 provides details of the supporting calculations. The proposed Administrative
6		Adder associated with residential and SGS customers is 0.0213%.
7		
8		<b>CONCLUSIONS AND RECOMMENDATIONS</b>
9	Q.	PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS
10		WITH REGARD TO PEOPLES' COST OF SERVICE STUDIES, CLASS
11		REVENUES AND RATE DESIGN.
12	A.	My conclusions and recommendations for the Company's cost of service studies, class
13		revenues and rate design are as follows:
14		• The range of results from the Company's two cost of service studies should be accepted
15		by the Commission as a guide to evaluate and set Peoples' class revenues and rate design
16		in this proceeding.
17		• The Commission should accept the Company's proposed apportionment of non-gas
18		revenues to its rate classes because it reasonably balances the various criteria that were
19		considered by the Company in the revenue apportionment process which included: (1) cost
20		of service; (2) class contribution to present revenue levels; and (3) customer impact
21		considerations.
22		• The Commission should approve the rate design proposed by the Company because it
23		reasonably satisfies the key rate design objectives I presented earlier in my testimony,

including: (1) achieve fair and equitable rate levels that are reflective of the cost to serve;
(2) avoid undue discrimination between and within rate classes; (3) rates should be stable,
understandable, and provide customer choices; (4) create economically efficient pricing
for natural gas delivery service; (5) rates should encourage energy conservation and energy
efficiency; and (6) rates should allow a utility to recover its revenue requirement in a
manner that maintains revenue stability, and minimizes year-to-year under or overcollections.

8

### 9 Q. DOES THIS COMPLETE YOUR PREPARED TESTIMONY?

10 A. Yes. I reserve the right to submit supplemental testimony as additional issues arise during
11 the course of this proceeding. Thank you.

Appendix A Direct Testimony of Russell A. Feingold Page 1 of 14

### EDUCATIONAL BACKGROUND, WORK EXPERIENCE AND REGULATORY EXPERIENCE RUSSELL A. FEINGOLD

### EDUCATIONAL BACKGROUND

- Bachelor of Science degree in Electrical Engineering from Washington University in St. Louis
- Master of Science degree in Financial Management from Polytechnic Institute of New York University

### WORK EXPERIENCE

2007 – Present	Black & Veatch Management Consulting, LLC
	Vice President and Rates & Regulatory Services Practice Lead
1996 – 2007	Navigant Consulting, Inc.
	Managing Director, Energy Practice - Litigation, Regulatory
	& Markets Group
1990 - 1996	R.J. Rudden Associates, Inc.
	Vice President and Director
1985 – 1990	Price Waterhouse
	Director, Gas Regulatory Services
	Public Utilities Industry Services Group
1978 – 1985	Stone & Webster Management Consultants, Inc.
	Executive Consultant
	Regulatory Services Division
1973 – 1978	Port Authority of New York and New Jersey
	Staff Engineer and Utility Rate Specialist
	Design Engineering Division

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### PRESENTATION OF EXPERT TESTIMONY

- Federal Energy Regulatory Commission
- Arkansas Public Service Commission
- British Columbia Utilities Commission (Canada)
- California Public Utilities Commission
- Connecticut Department of Public Utility Control
- Delaware Public Service Commission
- Georgia Public Service Commission
- Illinois Commerce Commission
- Indiana Utility Regulatory Commission
- Iowa Utilities Board
- Kentucky Public Service Commission
- Manitoba Public Utilities Board (Canada)
- Massachusetts Department of Public Utilities
- Michigan Public Service Commission
- Minnesota Public Utilities Commission
- Missouri Public Service Commission
- Montana Public Service Commission
- National Energy Board (Canada)
- Nebraska Public Service Commission
- New Brunswick Energy and Utilities Board (Canada)
- New Hampshire Public Utilities Commission
- New Jersey Board of Public Utilities
- New Mexico Public Regulation Commission

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- New York Public Service Commission
- North Carolina Utilities Commission
- North Dakota Public Service Commission
- Ohio Public Utilities Commission
- Oklahoma Corporation Commission
- Ontario Energy Board (Canada)
- Oregon Public Utility Commission
- Pennsylvania Public Utility Commission
- Philadelphia Gas Commission
- Quebec Natural Gas Board (Canada)
- South Dakota Public Service Commission
- Tennessee Regulatory Authority
- Utah Public Service Commission
- Vermont Public Service Board
- Virginia State Corporation Commission
- Washington Utilities and Transportation Commission
- Public Service Commission of Wyoming

### EDUCATIONAL AND TRAINING ACTIVITIES

- Past Chairman, Rate Training Subcommittee, Rate and Strategic Issues Committee of the American Gas Association.
- Seminar organizer and co-moderator at the American Gas Association, "Workshop on Unbundling and LDC Restructuring," July 1995.
- Course organizer and speaker at the annual industry course, American Gas Association – Gas Rate Fundamentals Course, University of Wisconsin – Madison and University of Chicago School of Business, 1985 – 2018.

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- Course organizer and speaker at the annual industry course, American Gas Association – Advanced Regulatory Seminar, University of Maryland - College Park, 1987 –1992, and University of Chicago School of Business, 2012-2018.
- Co-founder, course director and instructor in the annual course, "Principles of Gas Utility Rate Regulation" sponsored by The Center for Professional Advancement 1982-1987.
- Contributing Author of the Fourth Edition of "Gas Rate Fundamentals," American Gas Association, 1987 edition.
- Organizer, Editor, and Contributing Author of the upcoming Fifth Edition of "Gas Rate Fundamentals," American Gas Association (in progress).
- Contributing Author of "Regulation of the Gas Industry," LexisNexis Matthew Bender, 2016 and 2018.

### PUBLICATIONS AND PRESENTATIONS

- "Current Regulatory and Ratemaking Issues," American Gas Association, Accounting Principles Committee Meeting, August 13-15, 2018.
- "Customer Affordability Assistance Funding Across the Energy Industry," American Water Works Association - Transformative Issues Symposium on Affordability, August 6-7, 2018.
- "Regulatory and Ratemaking Responses to a Changing Utility Industry," Mid America Regulatory Conference (MARC) Annual Meeting, June 3-6, 2018.
- "State Regulatory Update: Rates/ROEs/Tax Reform Impacts/M&A Trends," American Gas Association Financial Forum, May 20-22, 2018.
- "Properly Balancing the Costs and Benefits of DER When Designing Rates," Power Forward: Ratemaking and Regulation, Public Utilities Commission of Ohio, March 20-22, 2018.
- "Ratemaking for the Modern Utility: A Flawed Approach or Beyond Reproach?" S&P Global Market Intelligence, 2017 Utility Regulatory Conference, December 5-6, 2017.

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- "Current Regulatory and Ratemaking Issues", American Gas Association, Accounting Principles Committee Meeting, August 14-16, 2017.
- "Regulatory Update", American Gas Association, Risk Management Committee Meeting, July 17, 2017
- "State Regulatory Issues Analysis & Trends," American Gas Association Financial Forum, May 20-23, 2017.
- "The Valuing and Pricing of Distributed Energy Resources: Some Inconvenient Truths," SNL Energy Utility Regulation Conference, December 14-15, 2016.
- "Pricing Concepts and Regulatory Issues for Distributed Energy Resources," American Gas Association, State Affairs Committee Meeting, October 9-12, 2016.
- "State Regulatory Update Regulatory Responses to a Changing Utility Industry," American Gas Association Financial Forum, May 15-17, 2016.
- "State Regulatory Update: Regulatory Responses to a Changing Utility Industry" American Gas Association, Finance Committee Meeting, March 14-16, 2016.
- "Rate Restructuring Tiers and Other Pricing Twists", SNL 2015 Utility Regulation Conference, December 10, 2015.
- "Utility Ratemaking Solutions During a Time of Transition", American Gas Association, State Affairs Committee Meeting, October 4-7, 2015.
- "Current Regulatory and Ratemaking Issues", American Gas Association, Accounting Principles Committee Meeting, August 17-19, 2015.
- "Utility Ratemaking Solutions for a Changing Energy Marketplace", SNL Online Course, July 15, 2015 and October 27, 2015.
- "State Regulatory and Legislative Issues", American Gas Association Financial Forum, May 17-19, 2015.
- "Rate Design and Cost Allocation Issues", SNL 2014 Utility Regulation Conference, December 8-9, 2014.
- "Current Regulatory and Ratemaking Issues", American Gas Association, Accounting Principles Committee Meeting, August 18-20, 2014.

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- Regulatory Update", Southern Gas Association, 2014 Management Conference, Accounting & Financial Executives Roundtable, April 2-4, 2014.
- "Emerging Regulatory Issues for Gas Distribution Companies," American Gas Association, Finance Committee Meeting, March 17-19, 2014.
- "Balancing Rising Costs & Customer Expectations," co-authored with Will Williams and Jeff Evans, Western Energy Institute, WE Magazine, Winter 2013 issue.
- "Current Trends in Utility Rates and Economic Regulation," Western Energy Institute, WE Magazine, Fall 2013 issue.
- "Natural Gas Infrastructure and Electric Generation: Proposed Solutions for New England," American Gas Association State Affairs Committee Meeting, October 6-9, 2013
- "Utilities 2.0 Roundtable," 2013 National Town Meeting on Demand Response and Smart Grid, July 10-11, 2013
- "State Regulatory and Legislative Issues," American Gas Association Financial Forum, May 5-7, 2013
- "Providing Natural Gas to Unserved and Underserved Areas," American Gas Association Rate Committee Meeting and Regulatory Issues Seminar, October 28-31, 2012
- "State Regulatory Issues Affecting Gas Utilities," American Gas Association Accounting Principles Committee Meeting, August 13-15, 2012
- "State Regulatory Landscape and Future Trends Affecting Utilities," American Gas Association Financial Forum, May 6-8, 2012.
- "The Continuing Saga of Fixed Cost Recovery: Arguments in Utility Rate Proceedings," American Gas Association Rate Committee Meeting and Regulatory Issues Seminar, October 30 - November 2, 2011.
- "State Regulatory Issues Affecting Utilities," American Gas Association Accounting Principles Committee Meeting, August 15-17, 2011.
- "State Regulatory Issues Affecting Utilities," Edison Electric Institute/American Gas Association Accounting Leadership Conference, June 26-29, 2011.

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- "State Regulatory and Legislative Issues Affecting Utilities," American Gas Association Financial Forum, May 15-17, 2011.
- "2011 Forecast Regulatory Issues and Risks for Utilities," American Gas Association Finance Committee Meeting, March 16-18, 2011.
- "State Regulatory Issues Affecting Utilities," Edison Electric Institute and American Gas Association Accounting Leadership Conference, June 27-30, 2010.
- "State Regulatory and Legislative Issues Affecting Utilities," American Gas Association Financial Forum, May 17-19, 2010.
- "A Utility's Regulatory Compact: Where's the Right Balance? RMEL Electric Energy Magazine, Issue 1 Spring 2010.
- "Communicating Ratemaking and Regulatory Concepts to a Utility's Stakeholders," American Gas Association, Communications and Marketing Committee Meeting, March 16-17, 2010.
- "Managing Regulatory Risk Workshop", Rocky Mountain Electric League, October 8, 2009.
- "State Regulatory and Legislative Issues Affecting Utilities," American Gas Association, 2009 Financial Forum, May 3, 2009.
- "Financial Incentives for Energy Efficiency: Lessons Learned to Date," American Gas Association, Rate Committee Meeting and Regulatory Issues Seminar, April 7, 2009.
- "Breaking the Link Between Sales and Profits: Current Status and Trends," Energy Bar Association, Electricity Regulation and Compliance Committee, February 17, 2009.
- "State Ratemaking Issues for Gas Distribution Utilities," Energy Law Journal, Volume 29, No. 2, 2008 (Report of the Natural Gas Regulation Committee).
- "Current Issues in Cost Allocation and Rate Design for Utilities," SNL Energy, Utility Rate Cases Today: The Issues and Innovations, November 6, 2008.
- "Current Issues in Revenue Decoupling for Gas Utilities," American Gas Association, Financial and Investor Relations Webcast, October 16, 2008.

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- "Addressing Utility Business Challenges Through the State Regulatory Process," American Gas Association, 2008 Legal Forum, July 20-22, 2008.
- "Earning on Natural Gas Energy Efficiency Programs," American Gas Association Rate and Regulatory Issues Conference Webcast, May 23, 2008.
- "State Regulatory Directions: Utility Challenges and Solutions," American Gas Association Financial Forum, May 4, 2008.
- "Ratemaking and Financial Incentives to Facilitate Energy Efficiency and Conservation," The Institute for Regulatory Policy Studies, Illinois State University, May 1, 2008.
- "Update on Revenue Decoupling and Innovative Rates," American Gas Association, Rate Committee Meeting and Regulatory Issues Seminar, March 10, 2008.
- "Update on Revenue Decoupling and Utility Based Energy Conservation Efforts," American Gas Association, Rate and Regulatory Issues Conference Webcast, May 30, 2007.
- "A Renewed Focus on Energy Efficiency by Utility Regulators," American Gas Association, Rate and Regulatory Issues Seminar and Committee Meetings, March 26, 2007.
- "The Continuing Ratemaking Challenge of Declining Use Per Customer," American Public Gas Association, Gas Utility Management Conference, October 31, 2006.
- "Understanding and Managing the New Reality of Utility Costs in the Natural Gas Industry," Financial Research Institute, Public Utility Symposium, University of Missouri Columbia, September 27, 2006.
- "Ratemaking and Energy Efficiency Initiatives: Key Issues and Perspectives," American Gas Association, Ratemaking Webcast, September 14, 2006.
- "Ratemaking Solutions in an Era of Declining Gas Usage and Price Volatility," Northeast Gas Association, 2006 Executive Conference, September 10-12, 2006.
- "Rethinking Natural Gas Utility Rate Design," American Gas Foundation and The NARUC Foundation, Executive Forum, Ohio State University, May 2006.

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- "Rate Design, Trackers, and Energy Efficiency Has the Paradigm Shifted?" Energy Bar Association, Midwest Energy Conference, March 2006.
- "Key Regulatory Issues Affecting Energy Utilities," American Gas Association, Lunch 'n Learn Session, November 2005.
- "Decoupling, Conservation, and Margin Tracking Mechanisms," American Gas Association, Rate & Regulatory Issues – Audio Conference Series, October 2005.
- "In Search of Harmony, [Utilities and Regulators] Respondents Weigh in with Needed Actions", Public Utilities Fortnightly, November 2005
- "The Use of Trackers as a Regulatory Tool," Midwest Energy Association Legal, Regulatory, and Government Relations Roundtable, October 9-11, 2005.
- "Rate Design and the Regulatory Environment," American Gas Association Finance Committee Meeting, October 2005.
- "Creative Utility Regulatory Strategies in a High Price Environment," American Gas Association Executive Conference, September 2005.
- "Revenue Decoupling Programs: Aligning Diverse Interests," The Institute for Regulatory Policy Studies, Illinois State University, May 2005.
- "Key Regulatory Issues Affecting Energy Utilities" American Gas Association Financial Forum, May 2005.
- "Energy Efficiency and Revenue Decoupling: A True Alignment of Customer and Shareholder Interests," American Gas Association Rate and Regulatory Issues Seminar and Committee Meetings, April 2005.
- "Rate Case Techniques: Strategies and Pitfalls" American Gas Association, Rate & Regulatory Issues Audio Conference Series, March 2005.
- "Regulatory Uncertainty: The Ratemaking Challenge Continues" Public Utilities Fortnightly, Volume 142, No. 11, November 2004.
- "Current Trends in Utility Rate Cases and Pricing: Surveying the Landscape," Platts Rate Case & Pricing Symposium, October 25-26, 2004.
- "State Regulatory Oversight of the Gas Procurement Function" Energy Bar Association, Natural Gas Regulation Committee, Energy Law Journal, Volume 25, No. 1, 2004.

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- "Cost Allocation Across Corporate Divisions", American Gas Association, Rate and Strategic Issues Committee Meeting, April 2003.
- "Unbundling Initiatives How Far Can We Go?" American Gas Association Restructuring Seminar: Service and Revenue Enhancements for the Energy Distribution Business, December 2002.
- "Utility Regulation and Performance-Based Ratemaking (PBR)," PBR Briefing Session sponsored by BC Gas Utility Ltd., April 2002.
- "LDC Perspectives on Managing Price Volatility" American Gas Association, Rate and Strategic Issues Committee Meeting, March 2002.
- "Can a California Energy Crisis Occur Elsewhere?" American Gas Association, Rate and Strategic Issues Committee Meeting, March 2001.
- "Downstream Unbundling: Opportunities and Risks," American Gas Association, Rate and Strategic Issues Committee Meeting, April 2000.
- "Form Follows Function: Which Corporate Strategy Will Predominate in the New Millennium?" American Gas Association 1999 Workshop on Regulation and Business Strategy for Utilities in the New Millennium, August 1999
- "Total Energy Providers: Key Structural and Regulatory Issues," American Gas Association, Rate and Strategic Issues Committee Meeting, April 1999.
- "The Gas Industry: A View of the Next Decade," National Association of Regulatory Utility Commissioners (NARUC) Staff Subcommittee on Accounts, 1998 Fall Meeting, September 1998.
- "Regulatory Responses to the Changing Gas Industry," Canadian Gas Association, 1998 Corporate Challenges Conference, September 1998
- "Trends in Performance-Based Pricing," American Gas Association Financial Analysts Conference, May 1998.
- "Unbundling An Opportunity or Threat for Customer Care?" presented at the American Gas Association/Edison Electric Institute Customer Services Conference and Exposition, May 1998.
- "Experiences in Electric and Gas Unbundling," presented at the 1997 Indiana Energy Conference, December 1997.

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- "Asset and Resource Migration Strategies," presented at the Strategic Marketing for The New Marketplace Conference sponsored by Electric Utility Consultants, Inc. and Metzler & Associates, November 1997.
- "The Status of Unbundling in the Gas Industry," presented at the American Gas Association Finance Committee, March 1997.
- Seminar organizer and co-moderator at the American Gas Association, "Workshop on Unbundling and LDC Restructuring," July 1995.
- "State Regulatory Update," presented at the American Gas Association Financial Forum, May 1995.
- "Gas Pricing Strategies and Related Rate Considerations," presented before the Rate Committee of the American Gas Association, April 1995.
- "Avoided Cost Concepts and Management Considerations," presented before the Workshop on Avoided Costs in a Post-636 Industry, sponsored by the Gas Research Institute and Wisconsin Center for Demand-Side Research, June 1994.
- "DSM Program Selection Under Order No. 636: Effect of Changing Gas Avoided Costs," presented before the NARUC-DOE Fifth National Integrated Resource Planning Conference, Kalispell, MT, May 1994.
- "A Review of Recent Gas IRP Activities," presented before the Rate Committee of the American Gas Association, March 1994.
- Seminar organizer and co-moderator at the American Gas Association seminar, "The Statue of Integrated Resource Planning," December 1993.
- "Industry Restructuring Issues for LDCs, presented before the American Gas Association–Advanced Regulatory Seminar, University of Maryland, 1993-1996.
- "Acquiring and Using Gas Storage Services," presented before the 8th Cogeneration and Independent Power Congress and Natural Gas Purchasing '93, June 1993.
- "Capitalizing on the New Relationships Arising Between the Various Industry Segments: Understanding How You Can Play in Today's Market," presented before the Institute of Gas Technology's Natural Gas Markets and Marketing Conference, February 1993.

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- "The Level Playing Field for Fuel Substitution (or, the Quest for the Holy Grail)," presented before the 4th Natural Gas Industry Forum Integrated Resource Planning: The Contribution of Natural Gas, October 1992.
- "Key Methodological Considerations in Developing Gas Long-Run Avoided Costs," presented before the NARUC-DOE Fourth National Integrated Resource Planning Conference, September 1992.
- "Mega-NOPR Impacts on Transportation Arrangements for IPPs," co-presented before the 7th Cogeneration and Independent Power Congress and Natural Gas Purchasing '92, June 1992.
- "Cost Allocation in Utility Rate Proceedings," presented before the Ohio State Bar Association Annual Convention, May 1992.
- "The Long and the Short of LRACs," presented before the Natural Gas Least-Cost Planning Conference April 1992, sponsored by Washington Gas Company and the District of Columbia Energy office.
- Seminar organizer and moderator at the American Gas Association seminar, "Integrated Resource Planning: A Primer," December 1991.
- Session organizer and moderator on integrated resource planning issues at the American Gas Association Annual Conference, October 1991.
- "Strategic Perspectives on the Rate Design Process," presented before the Executive Enterprises, Inc. conference, "Natural Gas Pricing and Rate Design in the 1990s," September 1990.
- "Distribution Company Transportation Rates," presented before the American Gas Association–Advanced Regulatory Seminar, University of Maryland 1987-1992.
- "Design of Distribution Company Gas Rates," presented before the American Gas Association - Gas Rate Fundamentals Course, University of Wisconsin, 1985-1998.
- Seminar organizer, speaker and panel moderator at the American Gas Association seminar, "Natural Gas Strategies: Integrating Supply Planning, Marketing and Pricing," 1988-1990.

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- "Local Distribution Company Bypass Issues and Industry Responses," (Coauthor) June 1989.
- "So You Think You Know Your Customers!" presented before the American Gas Association–Annual Marketing Conference, April 1990.
- "Gas Transportation Rate Considerations A Review of Gas Transportation Practices Based on the Results of the A.G.A. Annual Pricing Strategies Survey," presented before the Rate Committee of the American Gas Association, April 1985-1991.
- "Market-Based Pricing Strategies Targeted Rates to Meet Competition," presented before the American Gas Association Annual Marketing Conference, March 1989.
- "Gas Rate Restructuring Issues Targeted Prices to Meet Competition," presented before the Fifteenth Annual Rate Symposium, University of Missouri, February 1989.
- "Gas Transportation Rates An Integral Part of a Competitive Marketplace," American Gas Association, Financial Quarterly Review, Summer 1987.
- "Gas Distributor Rate Design Responses to the Competitive Fuel Situation," American Gas Association, Financial Quarterly Review, October 1983.
- "Demand-Commodity Rates: A Second-Best Response to the Competitive Fuel Situation," presented before the American Gas Association, Ratemaking Options Forum, September 1983.
- Cofounder, course director and instructor in the annual course, "Principles of Gas Utility Rate Regulation" sponsored by The Center for Professional Advancement 1982-1987.
- "Current Rate and Regulatory Issues," presented before the National Fuel Gas Regulatory Seminar, July 1986.

## **AFFILIATIONS AND HONORS**

- Financial Associate Member, American Gas Association
- Member, Rate Committee of the American Gas Association
- Member, Energy Bar Association

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- Life Member, Institute of Electrical and Electronic Engineers
- Listed in Who's Who of Emerging Leaders in America, 1989-1992

(Current as of January 2019)

## WITNESS AREAS OF RESPONSIBILITY (LIST OF SECTION)

<u>Section</u>	Subject Matter
53.53	
III-A-45	Explanation of any differences between the basis or procedure
	used in allocations of revenues, expenses, depreciation and taxes
	in the current rate case and that used in the prior rate case.
III-A-47	Schedule showing rate of return on facilities allocated to serve
	wholesale customers
IV-B-1	Cost of Service Studies under Present and Proposed Tariffs
IV-B-2	Statement of Testimony Describing the Complete Methodology
	of the Cost of Service Studies
IV-B-3	Complete Description and Back-Up Calculations for All
	Allocation Factors
IV-B-7	Graph of present and proposed base rates on hyperbolic cross
	section paper
IV-B-9	Cost Analysis Supporting Minimum Charges for All Rate
	Schedules
IV-B-10	Cost analysis supporting demand charges for all tariffs which
	contain demand charges.
IV-B-12	Supply a tabulation of base rate bills for each rate schedule
	comparing the existing rates to proposed rates. The tabulation
	should show the dollar difference and the per cent increase or
	decrease.
Exhibit	
VI.III.COS.2	Detailed explanation describing how contributions in aid of
	construction and customer advances are reflected in the
	Company's cost of service study.

VI.III.COS.8	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.
VI.III.COS.19	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.
VI.III.COS.20	All workpapers, calculations and supporting documentation for
	the functionalization and classification performed for the
	Company's cost of service study.

Section – 53.53	Exhibit
III.A.45	Ex 13, Sch. 11
III.A.47	Ex 11, Sch. 9
IV.B.1	Ex. 11, Sch. 1
IV.B.2	Ex. 11, Sch. 2
IV.B.3	Ex. 11, Sch. 3
IV.B.7	Ex. 11, Sch. 7
IV.B.9	Ex. 11, Sch. 4
IV.B.10	Ex. 11, Sch. 5
IV.B.12	Ex. 11, Sch. 8
IV.B.19	Ex 17, COS-19
IV.B.20	Ex 17, COS-20
Exhibit	
VI.III.COS.2	Ex.17, COS-2
IV.III.COS.8	Ex. 17, COS-8
IV.III.COS.19	Ex.17, COS-19
IV.III.COS.20	Ex. 17, COS-20

## Minimum Customer Cost Analysis

Peoples Exhibit RAF-2 Minimum Customer Cost Analysis Page 1 of 10

	Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation <u>Factor</u>	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
	1: RATE BASE I. GAS PLANT IN SERVICE							
3	A. INTANGIBLE PLANT							
4	Organization	301	0	DISTPT-C	0	0	0	0
5	Franchise and Consents	302	0	DISTPT-C	0	0	0	0
6	Miscellaneous Intangible Plant	303	83,103,211	DIST_303-C	75,587,382	5,561,267	1,498,968	455,594
7	Subtotal - INTANGIBLE PLANT	301-303	83,103,211		75,587,382	5,561,267	1,498,968	455,594
8	B. PRODUCTION PLANT							
9	Other Land & Land Rights-Land	325	0	DISTPT-C	0	0	0	0
10		326	0	DISTPT-C	0	0	0	0
11	Field Compressor Station Structures	327	0	DISTPT-C	0	0	0	0
12	Field M&R Station Structures	328	0	DISTPT-C	0	0	0	0
13	Other Structures	329	0	DISTPT-C	0	0	0	0
14	Producing Gas Wells-Well Construction	330, 331	0	DISTPT-C	0	0	0	0
	Field Lines	332	0	DISTPT-C	0	0	0	0
	Field Compressor Station Equipment	333	0	DISTPT-C	0	0	0	0
17	Field M&R Station Equip-Company	334	0	DISTPT-C	0	0	0	0
	0 0 1 1	335	0	DISTPT-C	0	0	0	0
		337	0	DISTPT-C	0	0	0	0
20	Subtotal - PRODUCTION PLANT	325-337	0		0	0	0	0
21	C. NATURAL GAS STORAGE & PROCESSING PLANT							
22	Land and Land Rights	350	0	DISTPT-C	0	0	0	0
23	Structures and Improvements	351	0	DISTPT-C	0	0	0	0
24	Wells-Well Equipment	352	0	DISTPT-C	0	0	0	0
25	Lines	353	0	DISTPT-C	0	0	0	0
	Compressor Station Equipment - Other	354	0	DISTPT-C	0	0	0	0
27	M&R Equipment-Meters & Gauges	355	0	DISTPT-C	0	0	0	0
	Other Equipment	357	0	DISTPT-C	0	0	0	0
29	Subtotal - STORAGE PLANT	350-363	0		0	0	0	0
30	D. TRANSMISSION PLANT							
31	Land & Land Rights	365	0	DISTPT-C	0	0	0	0
	Structures & Improvements	366	0	DISTPT-C	0	0	0	0
33	Mains	367	0	DISTPT-C	0	0	0	0
34	Compressor Station Equipment	368	0	DISTPT-C	0	0	0	0
35	M&R Station Equipment	369	0	DISTPT-C	0	0	0	0
36	Other Equipment	371	0	DISTPT-C	0	0	0	0
37	Subtotal - TRANSMISSION PLANT	365-371	0		0	0	0	0

## Minimum Customer Cost Analysis

Peoples Exhibit RAF-2 Minimum Customer Cost Analysis Page 2 of 10

	Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation Factor	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
38	E. DISTRIBUTION PLANT							
39	Land and Land Rights	374	0	DISTPT-C	0	0	0	0
40	Structures and Improvements	375	0	DISTPT-C	0	0	0	0
41	Low Pressure Mains	376	0	Cust Avg(Low Pressure	0	0	0	0
42	Regulated Pressure Mains	376	0	Cust Avg	0	0	0	0
43	M & R Station Equipment	378	0	DISTPT-C	0	0	0	0
44	Services	380	632,413,944	Service Invest	590,954,989	33,668,295	7,462,456	328,204
45	Meters	381	126,828,614	Meter Invest	105,952,549	14,515,233	5,992,268	368,564
46	Meter Installations	382	90,344,063	Meter_Invest	75,473,377	10,339,663	4,268,483	262,540
47	Industrial M & R Station Equipment	385	10,644,190	M&R Equipment	0	646,956	5,069,737	4,927,497
48	Other Property on Customers Premise	386	14,644,532	Meter_Invest	12,234,033	1,676,032	691,910	42,557
49	Other Equipment	387	0	DISTPT-C	0	0	0	0
50	Subtotal - DISTRIBUTION PLANT	374-387	874,875,343		784,614,949	60,846,179	23,484,853	5,929,361
51	F. GENERAL PLANT							
52	Land and Land Rights	389	117.603	DISTPT-C	106.787	8,012	2,303	501
	Structures and Improvements	390	7,257,148	DISTPT-C	6,589,691	494,397	142,126	30,935
54	Office Furniture and Equipment	391	4,962,571	DISTPT-C	4,506,152	338,078	97,188	21,154
55	Transportation Equipment	392	0	DISTPT-C	0	0	0	0
56	Stores Equipment	393	0	DISTPT-C	0	0	0	0
57	Tools, Shop and Garage Equipment	394	0	DISTPT-C	0	0	0	0
58	Laboratory Equipment	395	0	DISTPT-C	0	0	0	0
59	Power Operated Equipment	396	0	DISTPT-C	0	0	0	0
60	Communication Equipment	397	0	DISTPT-C	0	0	0	0
61	Miscellaneous Equipment	398	0	DISTPT-C	0	0	0	0
62	Other Tangible Plant	399	0	DISTPT-C	0	0	0	0
63	Subtotal - GENERAL PLANT	389-399	12,337,323		11,202,630	840,486	241,617	52,590
64	TOTAL PLANT IN SERVICE		970,315,877		871,404,961	67,247,933	25,225,438	6,437,545
65	G. UTILITY PLANT	105	0	DISTPT-C	0	0	0	0
66	TOTAL UTILITY PLANT		970,315,877		871,404,961	67,247,933	25,225,438	6,437,545

## Minimum Customer Cost Analysis

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	Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation Factor	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
67	II. DEPRECIATION RESERVE							
68	Intangible Plant	303	39,269,336	DIST_Intang-C	35,717,811	2,627,918	708,336	215,271
69	Production Plant	325-337	0	DISTPT-C	0	0	0	0
70	Storage Plant	350-357	0	DISTPT-C	0	0	0	0
71	Transmission	365-371	0	DISTPT-C	0	0	0	0
72		374-375	0	DISTPT-C	0	0	0	0
73	Distribution Mains	376	0	MAINSPT-C	0	0	0	0
74	Distribution M&R General	378	0	DISTPT-C	0	0	0	0
75	Distribution Services	380	257,018,152	Service_Invest	240,168,897	13,683,068	3,032,802	133,385
76	Distribution - Meters	381	28,466,508	Meter_Invest	23,780,904	3,257,924	1,344,956	82,724
77	Distribution - Meters Installations	382	37,863,819	Meter_Invest	31,631,412	4,333,424	1,788,951	110,032
78	Industrial M & R Station Equipment - Other	385	4,876,879	M&R Equipment	0	296,418	2,322,816	2,257,645
79	Other Property on Customers Premises	386	13,387,293	Meter_Invest	11,183,737	1,532,144	632,509	38,903
80	Other Equipment	387	0	DISTPT-C	0	0	0	0
81		389-399	4,631,258	DISTPT-C	4,205,310	315,507	90,700	19,742
82	TOTAL DEPRECIATION RESERVE (PLANT IN SERVICE)		385,513,244		346,688,071	26,046,402	9,921,070	2,857,702
83	Retirement Obligation		0	DISTPTXL-CUST	0	0	0	0
84	TOTAL - DEPRECIATION RESERVE		385,513,244		346,688,071	26,046,402	9,921,070	2,857,702
85	III. OTHER RATE BASE ITEMS							
86	Gas Storage Underground - NonCurrent		0	DISTPT-C	0	0	0	0
87	Gas Stored Underground - Current		0	DISTPT-C	0	0	0	0
88	Materials and Supplies		0	DISTPT-C	0	0	0	0
89	Prepayments		0	DISTO&M-C	0	0	0	0
90	Cash Working Capital		0	DISTPT-C	0	0	0	0
91	Deferred Income Taxes		0	DISTPT-C	0	0	0	0
92	Customer Advances and Deposits		0	Cust_Deposit	0	0	0	0
93	Total - OTHER RATE BASE ITEMS		0		0	0	0	0
94	TOTAL RATE BASE (Excl. Working Capital)		584,802,633		524,716,890	41,201,530	15,304,369	3,579,843
95	Gas Purchases Cash Working Capital		0	DISTO&M-C	0	0	0	0
96	TOTAL RATE BASE		584,802,633		524,716,890	41,201,530	15,304,369	3,579,843

## Minimum Customer Cost Analysis

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			Distribution					
	Account	Account	Customer	Allocation	Residential	Small	Medium	Large
	Description	Code	Dollars	Factor	Service	General Service	General Service	General Service
	EXPENSES							
98 I.	OPERATION & MAINTENANCE EXPENSE							
99 <b>A</b>	NATURAL GAS PRODUCTION EXPENSES							
100 1.	. Natural Gas Production and Gathering							
101 O	peration Supervision & Engineering	750	0	DISTPT-C	0	0	0	0
	roduction Maps	751	0	DISTPT-C	0	0	0	0
	as Wells Expense	752	0	DISTPT-C	0	0	0	0
	ield Lines Expense	753	0	DISTPT-C	0	0	0	0
105 F	ield Compressor Station Expense	754756	0	DISTPT-C	0	0	0	0
	ther Expense	759	0	DISTPT-C	0	0	0	0
107 R	lents	760	0	DISTPT-C	0	0	0	0
108	Subtotal - Operation Accounts	751-760	0		0	0	0	0
109 M	laint Supervision & Engineering	762	0	DISTPT-C	0	0	0	0
	roducing Gas Wells Maintenance	763	0	DISTPT-C	0	0	0	0
	ield Lines	764, 787	0	DISTPT-C	0	0	0	0
	ield Meas/Reg	765, 766	0	DISTPT-C	0	0	0	0
	other Equipment	769	0	DISTPT-C	0	0	0	0
	Subtotal - Maintenance Accounts	762-787	0		0	0	0	0
115 S	ubtotal - Production and Gathering	751-787	0		0	0	0	0
116 2.	. Other Gas Supply Expenses							
	at Gas Well Head Purchases	800	0	Not Applicable	0	0	0	0
	as used for Compressor Station Fuel - Credit	810	0	Not Applicable	0	0	0	0
	as used for Other Util Ops-Credit	812755	0	Not Applicable	0	0	0	0
	other Gas Supply Expenses	813	0	Not_Applicable	0	0	0	0
	ubtotal - Other Gas Supply Expenses		0	<u> </u>	0	0	0	0
122 <b>S</b>	ubtotal - PRODUCTION EXPENSES	751-813	0	0	0	0	0	0

## Minimum Customer Cost Analysis

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	Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation Factor	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
123	B. STORAGE, TERMINALING & PROCESSING EXPENSES							
	Wells Expense Lines Expenses	816 817	0 0	DISTPT-C DISTPT-C	0 0	0 0	0 0	0 0
126		818	0	DISTPT-C	0	0	0	0
127	1	819	0	DISTPT-C	0	0	0	0
128		820	0	DISTPT-C	0	0	0	0
129 130		823 824	0 0	DISTPT-C DISTPT-C	0	0 0	0 0	0 0
130		825	0	DISTPT-C	0	0	0	0
132	Subtotal - Operations Accounts	816-825	0	Bioti 1 0	0	0	0	0
133	Maint. of Structures & Improvements	831	0	DISTPT-C	0	0	0	0
134		832	0	DISTPT-C	0	0	0	0
	Maint. of Lines	833	0	DISTPT-C	0	0	0	0
	Maint. of Compressor Station Equipment	834	0	DISTPT-C	0	0	0	0
137	Maint. of Meas/Reg Station Equipment Maint. Of Other Equipment	835 837	0 0	DISTPT-C DISTPT-C	0	0 0	0 0	0
130	Subtotal - Maintenance Accounts	831-837	0	DISTPT-C	0	0	0	0
155	Subiolai - Maintenance Accounts	031-037	0		0	0	0	0
140	Subtotal - STORAGE EXPENSES	816-837	0		0	0	0	0
141	C. TRANSMISSION EXPENSES							
	Supvervision/Engineering	850	0	DISTPT-C	0	0	0	0
143		853	0	DISTPT-C	0	0	0	0
144		856	0 0	DISTPT-C	0	0	0	0
145 146	5	857 858	0	DISTPT-C DISTPT-C	0	0	0	0
140	Other Expenses	859	0	DISTPT-C	0	0	0	0
	Rents	860	0	DISTPT-C	0	0	0 0	0
149	Subtotal - Operation Accounts	856-860	0		0	0	0	0
150	Maint. of Structures & Improvements	862	0	DISTPT-C	0	0	0	0
151		863	0	DISTPT-C	0	0	0	0
	Maint. Of Compressor Station	864	0	DISTPT-C	0	0	0	0
	Maint. Of Meas/Reg Station Equipment	865	0	DISTPT-C	0	0	0	0
	Maint. of Communication Equipment	866	0	DISTPT-C	0	0	0	0
155 156	Maint of Other Equipment Subtotal - Maintenance Accounts	867 863-867	0	DISTPT-C	0	0	0	<u> </u>
100	Subiotal - Maintenance Accounts	003-007	U		0	0	0	0
157	Subtotal - TRANSMISSION EXPENSES	850-865	0		0	0	0	0

## Minimum Customer Cost Analysis

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	Account <u>Description</u>	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation Factor	Residential <u>Service</u>	Small <u>General Service</u>	Medium General Service	Large <u>General Service</u>
158	D. DISTRIBUTION EXPENSES							
159	Operation Supervision & Engineering	870	(773,904)	DISTO&M_LABOR-C	(703,213)	(55,569)	(14,310)	(812)
160	Distribution Load Dispatching	871	0	DISTPT-C	0	0	0	0
161	Mains and Services Expenses	874	4,256,620	)ISTMAIN-SERVICE-(	3,961,076	251,390	42,546	1,608
162	Meas. & Reg. Station Expenses	875	0	DISTPT-C	0	0	0	0
163	Meas. & Reg. Station Expenses - City Gate	877	0	DISTPT-C	0	0	0	0
164	Meter & House Regulator Expenses	878	5,800,677	DISTMETER-REG-C	4,845,882	663,874	274,064	16,857
165	Customer Installations Expenses	879	5,354,119	Service_Invest	5,003,121	285,041	63,178	2,779
166	•	880	0	DISTO&M-C	0	0	0	0
167		881	0	DISTO&M-C	0	0	0	0
168	Maint. of Structures & Improvements	886	0	DISTPT-C	0	0	0	0
169		887	0	MAINSPT-C	0	0	0	0
170		888	0	DISTPT-C	0	0	0	0
171	Maint. of Meas. & Reg. Station Expenses-General	889	0	DISTPT-C	0	0	0	0
172	5 1	890	0	M&R Equipment	0	0	0	0
173		892	987,954	Service_Invest	923,187	52,596	11,658	513
174		893		DISTMETER-REG-C	324,236	44,420	18,338	1,128
175	· · · · · · · · · · · · · · · · · · ·	894	0	DISTO&M-C	0	0	0	0
176	Subtotal - DISTRIBUTION EXPENSES	870-894	16,013,587		14,354,289	1,241,753	395,474	22,072
177	Total - OPERATION & MAINTENANCE EXPENSES		16,013,587		14,354,289	1,241,753	395,474	22,072
178	II. CUSTOMER ACCOUNTS EXPENSES							
179	Supervision	901	0	CUST-902_903	0	0	0	0
180	Meter Reading Expenses	902	4,799,922	CUST-902	4,107,589	368,596	195,411	128,327
181	Customer Records & Collection Expense	903	17,132,673	CUST-903	15,993,032	1,020,735	111,593	7,313
182	Uncollectible Accounts	904	15,502,183	Write-offs	15,121,513	355,028	23,433	2,210
183	Subtotal - CUSTOMER ACCOUNTS EXPENSES	902-904	37,434,779		35,222,133	1,744,360	330,436	137,851
184	III. CUSTOMER SERVICE & INFORMATIONAL EXPENSES							
185	Supervision	907	437,767	CUST-908-910	420.250	15.698	1.819	0
186		908	2,892,225	CUST-908	2,884,801	7,424	0	0
187	· · · · · · · · · · · · · · · · · · ·	909	3,206,633	Cust Avg xLGS	2,970,162	211,151	25,320	0
188	<b>3</b>	910	4,280	Cust_Avg	3,963	282	34	2
189	Subtotal - CUSTOMER SERVICE	907-910	6,540,906	_ •	6,279,177	234,555	27,173	2
190	IV. SALES EXPENSES (C-8)							
191		911	0	CUST-912	0	0	0	0
192	•	912, 913	1,371,405	CUST-912	431,769	19,663	5,574	914,398
193		916	1,071,400	CUST-912	431,709	0	0,074	0
	Subtotal - SALES EXPENSES	911-916	1,371,405		431,769	19,663	5,574	914,398
195	Total-CUSTOMER ACCOUNTS, SERVICES & SALES EXPENSES	901-916	45,347,090		41,933,079	1,998,577	363,183	1,052,251

## Minimum Customer Cost Analysis

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	Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation <u>Factor</u>	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
196	V. ADMINISTRATIVE & GENERAL EXPENSES							
197 198 199 200 201 202 203	Office Supplies & Expenses Admin. Expenses Transferred-Credit Outside Services Employed Employee Pensions and Benefits	920 921 922 923 926 920-923, 926	13,473,686 4,938,723 (13,074,496) 8,902,955 <u>11,810,501</u> 26,051,369	DISTLABOR-C DISTLABOR-C DISTLABOR-C DISTLABOR-C DISTLABOR-C	12,012,538 4,403,145 (11,656,638) 7,937,478 <u>10,529,716</u> 23,226,239	889,114 325,901 (862,772) 587,497 <u>779,363</u> 1,719,103	217,393 79,684 (210,952) 143,646 <u>190,558</u> 420,329	354,641 129,992 (344,134) 234,335 <u>310,865</u> 685,699
204 205 206 207 208	Property Insurance Injuries and Damages Maintenance of General Plant Subtotal - A&G Plant-Related	924 925 932	144,348 4,021,121 <u>86,707</u> 4,252,176	DISTPT-C DISTPT-C DISTGENPTXL-C	131,072 3,651,289 <u>78,732</u> 3,861,093	9,834 273,941 <u>5,907</u> 289,682	2,827 78,750 <u>1,698</u> 83,276	615 17,141 <u>370</u> 18,126
209 210 211 212 213 214 215	Franchise Requirements Regulatory Commission Expenses Duplicate Charges - Credit Misc. Gen'l Expenses Rents	927 928 929 930 931 927-931	0 685,745 0 0 0 685,745	DISTL/P-C DISTREVREQ-C DISTL/P-C Cust_Avg DISTL/P-C	0 624,199 0 0 <u>0</u> 624,199	0 43,848 0 0 	0 11,246 0 0 	0 6,452 0 0 <u>0</u> 6,452
216	Total - ADMINISTRATIVE & GENERAL EXPENSES	920-932	30,989,290		27,711,531	2,052,632	514,850	710,276
217 218			92,349,967		83,998,899	5,292,962	1,273,507	1,784,599
219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234	Intangible Plant Production Plant Storage Plant Transmission Distribution Land Structures & Improvements Distribution Mains Distribution M&R General Distribution Services Distribution - Meters Distribution - Meters Installations Industrial M & R Station Equipment - Other Other Property on Customers Premises Other Equipment	403 403 403 403 403 403 403 403 403 403	$\begin{array}{c} 10,212,386\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 15,295,585\\ 4,930,443\\ 1,741,537\\ 225,744\\ 269,216\\ 0\\ 876,195\\ 33,551,106 \end{array}$	DIST_Intang-C DISTPT-C DISTPT-C DISTPT-C DISTPT-C MAINSPT-C DISTPT-C Service_Invest Meter_Invest M&R Equipment M&R Equipment Meter_Invest DISTPT-C DISTPT-C	9,288,776 0 0 0 0 14,292,857 4,118,889 1,454,879 0 224,903 0 795,609 30,175,914	$\begin{array}{c} 683,417\\ & 0\\ & 0\\ & 0\\ & 0\\ & 0\\ & 0\\ & 0\\ & $	184,210 0 0 0 0 180,487 232,948 82,282 107,520 12,720 0 <u>17,160</u> 817,327	$55,983 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 7,938 \\ 14,328 \\ 5,061 \\ 104,503 \\ 782 \\ 0 \\ 3,735 \\ 192,331 \\ 0$

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	Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation <u>Factor</u>	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
235	VII. TAXES OTHER THAN INCOME TAXES							
236	A. General Taxes							
237	Payroll Taxes	408.15	3,180,030	DISTLABOR-C	2,835,173	209,847	51,309	83,702
238		408.17	2,357,331	DISTPT-C	2,140,522	160,594	46,166	10,049
239		408.18	0	DISTPT-C	0	0	0	0
240	Subtotal - General Taxes		5,537,361		4,975,695	370,441	97,475	93,750
241	TOTAL EXPENSES (excl. GRT & Gas Purchases)	408.1	131,438,433		119,150,507	8,028,937	2,188,309	2,070,679
242	B. Revenue Taxes: (GRT)							
243	State Gross Earnings	408.11	0	Rev_GRT	0	0	0	0
244	Municipal Tax	408	0	Rev_MuniTax	0	0	0	0
245	Subtotal - Revenue Taxes (GRT)		0		0	0	0	0
246	C. Income Taxes							
247	Fed & State Income Taxes Based on Net Income	409	5,745,071	DIST_PreTax-C	12,298	962,762	2,534,366	2,235,645
248		409	0	DISTREVREQ-C	0	0	0	0
249	Subtotal - Income Taxes		5,745,071		12,298	962,762	2,534,366	2,235,645
250	TOTAL TAXES (Excl. General Taxes)		5,745,071		12,298	962,762	2,534,366	2,235,645
251	TOTAL EXPENSES		137,183,504		119,162,805	8,991,699	4,722,675	4,306,324
252	3: OPERATING REVENUES							
253	Sales & Transportation Operating Revenues	480-485	212,106,636	Non-gas_Revenue	149,392,480	17,997,471	24,053,696	20,662,989
254			0	Gas_Revenue	0	0	0	0
255		487	2,477,073	Collections	2,342,140	75,131	43,089	16,712
256	Miscellaneous Service Revenues		1,829,989	ConnectionFee	1,173,721	586,065	68,638	1,565
257	Gathering		0	Non-gas_Revenue	0	0	0	0
258	Intercompany Software License Fees		64,628	Non-gas_Revenue	45,519	5,484	7,329	6,296
259	8		1,086,102	Transport-Thru	145,644	62,355	214,070	664,033
260	Direct Customer Cashouts		16,462	LGS_Direct	0	0 15	0 20	16,462 17
	Royalties Tax Discount		176 177	Non-gas_Revenue Non-gas_Revenue	124 124	15	20	17
262			85,587	DISTPT-C	77.715	5.831	1.676	365
263	Total - OPERATING REVENUES		217,666,830		153,177,469	18,732,367	24,388,538	21,368,457
264	Other Income	412	0	DISTREVREQ-C	0	0	0	0
265			80,483,326		34.014.664	9,740,667	19,665,863	17.062.132
	Return		13.76%		6.48%		128.50%	476.62%

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	Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation <u>Factor</u>	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
267	SUMMARY							
268	OPERATING REVENUES							
269	Sales & Transportation Operating Revenues		212,106,636		149,392,480	17,997,471	24,053,696	20,662,989
270			0		0	0	0	0
271	Forfeited Discounts		2,477,073		2,342,140	75,131	43,089	16,712
272			1,829,989		1,173,721	586,065	68,638	1,565
273	Gathering		0		0	0	0	0
274	Intercompany Software License Fees		64,628		45,519	5,484	7,329	6,296
275			1,086,102		145,644	62,355	214,070	664,033
276	Direct Customer Cashouts		16,462 176		0 124	0 15	0 20	16,462
277 278	5		176		124	15	20	17 17
278			85.587		77.715	5.831	1.676	365
280	Total Operating Revenues		217,666,830		153,177,469	18,732,367	24,388,538	21,368,457
200	Total Operating Revenues		217,000,000		100,177,400	10,7 52,507	24,000,000	21,000,407
281	EXPENSES							
	Production Expenses		0		0	0	0	0
283	•		0		0	0	0	0
284			0		0	0	0	0
285			16,013,587		14,354,289	1,241,753	395,474	22,072
	•		16,013,587		14,354,289	1,241,753	395,474	22,072
287	CUSTOMER ACCOUNTS, SERVICES, & SALES EXPENSES		45,347,090		41,933,079	1,998,577	363,183	1,052,251
288	ADMINISTRATIVE & GENERAL EXPENSES		30,989,290		27,711,531	2,052,632	514,850	710,276
200			22 551 106		20 175 014	2 265 524	017 207	102 221
289	DEPRECIATION EXPENSE		33,551,106		30,175,914	2,365,534	817,327	192,331
290	TAXES OTHER THAN INCOME TAXES		5,537,361		4,975,695	370,441	97,475	93,750
290			0,557,501		4,975,095	370,441 0	97,475	93,750
	INCOME BEFORE INCOME TAXES		86,228,397		34,026,962	10,703,429	22,200,229	19,297,777
232			00,220,007		34,020,302	10,700,420	22,200,223	13,237,111
203	FEDERAL INCOME TAXES							
294	Federal Income Taxes-Current		5,745,071		12,298	962,762	2,534,366	2,235,645
295			0,740,071		12,230	0	2,004,000	2,233,043
296	Subtotal - Income Taxes		5,745,071		12,298	962,762	2,534,366	2,235,645
200			0,110,011		12,200	002,102	2,001,000	2,200,010
297	NET OPERATING INCOME		80,483,326		34,014,664	9,740,667	19,665,863	17,062,132
					, ,			
298	RATE BASE		584,802,633		524,716,890	41,201,530	15,304,369	3,579,843
299	RATE OF RETURN		13.76%		6.48%	23.64%	128.50%	476.62%
300	Unitized		1.72		0.81	2.96	16.07	59.59

## Minimum Customer Cost Analysis

Peoples Exhibit RAF-2 Minimum Customer Cost Analysis Page 10 of 10

Account Description	Account <u>Code</u>	Distribution Customer <u>Dollars</u>	Allocation <u>Factor</u>	Residential <u>Service</u>	Small <u>General Service</u>	Medium <u>General Service</u>	Large <u>General Service</u>
<ul> <li>301 REVENUE REQUIREMENTS ANALYSIS</li> <li>302 System Average Rate of Return Achieved</li> </ul>		8.00%		8.00%	8.00%	8.00%	8.00%
303 RATE BASE		584,802,633		524,716,890	41,201,530	15,304,369	3,579,843
<ul> <li>304 OPERATING EXPENSES</li> <li>305 CUST. ACCTS., SERVICES, &amp; SALES EXP.</li> <li>306 ADMINISTRATIVE &amp; GENERAL EXPENSES</li> <li>307 DEPRECIATION EXPENSE</li> <li>308 GENERAL TAXES</li> </ul>		16,013,587 45,347,090 30,989,290 33,551,106 5,537,361		14,354,289 41,933,079 27,711,531 30,175,914 4,975,695	1,241,753 1,998,577 2,052,632 2,365,534 370,441	395,474 363,183 514,850 817,327 97,475	22,072 1,052,251 710,276 192,331 93,750
309 <b>TOTAL</b>		131,438,433		119,150,507	8,028,937	2,188,309	2,070,679
310 RETURN ON RATEBASE		46,772,572		41,966,908	3,295,302	1,224,045	286,316
<ul> <li>311 FIT ON RETURN</li> <li>312 State Income Tax on Return</li> <li>313 Increase in Uncoll</li> <li>314 Additional Late Fees</li> <li>315 TOTAL REVENUE REQUIREMENT</li> </ul>	Ratio of Taxes to Return	10,104,850 0 0 188,315,855	21.60%	9,066,624 0 0 170,184,039	711,924 0 0 <b>12,036,164</b>	264,445 0 0 3,676,800	61,856 0 0 2,418,852
<ul><li>316 Number of Bills per Rate Class</li><li>317 Minimum Customer Charge Design Day Method</li></ul>		7,529,853	BILLCUST	6,971,958 <b>\$ 24.41</b>	495,642.22 \$ 24.28	59,436 \$ 61.86	2,817 <b>\$ 858.66</b>

Cost Component	Amount
Rate Base	
Plant in Service	
Intangible Plant	\$6,303,250
Production Plant	\$124,160, 959
General Plant	\$6,003,790
Total Plant in Service	\$136,467,999
Depreciation Reserve	
Intangible Plant	\$2,977,641
Production Plant	\$53,322,074
General Plant	\$2,253,738
Total Depreciation Reserve	\$58,553,454
Other Rate Base Items	
Materials and Supplies	\$134,191
Prepayments	\$268,603
Cash Working Capital	\$1,474,819
Deferred Income Taxes	(\$8,709,824)
Total Other Rate Base Items	(\$6,832,212)
Total Net Rate Base	\$71,082,334
Expenses	
Natural Gas Production and Gathering	\$9,791,837
Administrative & General	\$5,231,285
Depreciation Expense	\$3,926,018
Taxes Other Than Income Taxes	\$697,338
Total Expenses	\$19,646,478
Poture on Not Data Basa	<u> </u>
Return on Net Rate Base	\$5,685,172
Federal Income Taxes on Return	\$1,228,237
Total Gathering Cost of Service	\$26,559,887
Gathering Service Revenues	
At Present Rates (HTY)	\$15,544,187
At Proposed Rates (FPFTY)	\$8,929,271
	۲ / ۲ رکر <sub>(</sub> ) ک <sub>ر</sub> کر را ب

## Peoples Natural Gas Company LLC Gathering Cost of Service <sup>(1)</sup>

<sup>(1)</sup> See Exhibit 11, Schedule 1, IV-B-1(A), Functionalization Phase, Pages 13 to 22.

## Peoples Natural Gas Company LLC Proposed Class Revenue Apportionment Design Day Demand Cost Allocation Method

		Total	Residential Service	G	Small eneral Service	Ge	Medium neral Service	Ge	Large neral Service
		10001	 Scivice						
Rate Base at 10/31/2020	\$ 2	2,052,311,067	\$ 1,490,104,849	\$	192,472,030	\$	211,340,081	\$	158,394,107
Net Utility Income at Present Rates	\$	94,525,688	\$ 50,698,852	\$	8,861,179	\$	18,603,276	\$	16,362,381
Rate of Return at Present Rates		4.61%	3.40%		4.60%		8.80%		10.33%
Increase - Net Utility Income	\$	69,618,351	\$ 68,479,879	\$	6,532,753	\$	(1,700,276)	\$	(3,694,005)
Net Utility Income at Proposed Rates	\$	164,144,039	\$ 119,178,731	\$	15,393,932	\$	16,903,000	\$	12,668,376
Rate of Return at Proposed Rates		8.00%	8.00%		8.00%		8.00%		8.00%
Increase in Operating Revenue	\$	94,848,212	\$ 89,711,180	\$	8,742,518	\$	(494,454)	\$	(3,111,033)
Operating Revenues at Present Rates	\$	667,019,391	\$ 477,024,122	\$	64,896,196	\$	69,410,154	\$	55,688,918
Operating Revenues at Proposed Rates	\$	761,867,603	\$ 566,735,302	\$	73,638,714	\$	68,915,701	\$	52,577,886

## Peoples Natural Gas Company LLC

Proposed Class Revenue Apportionment

Using Combined Design Day and Peak & Average Demand Cost Allocation Methods

		Total		Residential Service	Ge	Small eneral Service	Ge	Medium neral Service	Ge	Large neral Service
Rate Base at 10/31/2020	\$ 2	2,052,311,067	\$	1,401,067,261	\$	198,146,572	\$	243,854,059	\$	209,243,174
Net Utility Income at Present Rates Rate of Return at Present Rates	\$	94,525,688 4.61%	\$	57,871,190 4.13%	•	8,415,343 4.25%	\$	15,975,231 6.55%	\$	12,263,924 5.86%
Increase - Net Utility Income	\$	69,618,351	\$				\$	3,528,240		4,471,366
Net Utility Income at Proposed Rates	\$	164,144,039	\$	112,057,496	•	-,- , -	\$	19,503,471	\$	16,735,289
Rate of Return at Proposed Rates Increase in Operating Revenue	Ś	8.00%	Ś	8.00%	Ś	8.00% 9,780,319	\$	8.00% 5,619,590	Ś	8.00%
Operating Revenues at Present Rates	\$	667,019,391	\$	, ,			\$	69,387,865	\$	55,671,146
Operating Revenues at Proposed Rates	\$	761,867,603	\$	550,076,331	\$	74,657,881	\$	75,007,455	\$	62,125,936

## Peoples Natural Gas Company LLC Proposed Class Revenue Apportionment

	Non-Gas Revenue	Rate of	Relative	Revenue	Percent	Rate of	Relative	Percent of
Rate Class	at Current Rates	Return	ROR	Change	Change	Return	ROR	Total Increase
Residential Service	273,991,108	3.40%	0.74	89,711,180	32.7%	8.00%	1.00	94.6%
Small General Service	33,951,754	4.60%	1.00	8,742,518	25.7%	8.00%	1.00	9.2%
Medium General Service	45,000,023	8.80%	1.91	(494,454)	-1.1%	8.00%	1.00	-0.5%
Large General Service	43,112,951	10.33%	2.24	(3,111,033)	-7.2%	8.00%	1.00	-3.3%
Total Company	396,055,837	4.61%	1.00	94,848,212	23.9%	8.00%	1.00	100.0%

#### Table 1 - Cost-Based Non-Gas Revenue Apportionment - Design Day Demand Cost Allocation Method

## Table 2 - Cost-Based Non-Gas Revenue Apportionment - Midpoint of Cost of Service Study Results

	Non-Gas Revenue	Rate of	Relative	Revenue	Percent	Rate of	Relative	Percent of
Rate Class	at Current Rates	Return	ROR	Change	Change	Return	ROR	Total Increase
Residential Service	274,049,660	4.13%	0.90	72,993,513	26.6%	8.00%	1.00	77.0%
Small General Service	33,933,162	4.25%	0.92	9,780,319	28.8%	8.00%	1.00	10.3%
Medium General Service	44,977,788	6.55%	1.42	5,619,590	12.5%	8.00%	1.00	5.9%
Large General Service	43,095,227	5.86%	1.27	6,454,790	15.0%	8.00%	1.00	6.8%
Total Company	396,055,837	4.61%	1.00	94,848,212	23.9%	8.00%	1.00	100.0%

## Table 3 - Non-Gas Revenue Apportionment on an Equal Percentage of Margin Basis - Design Day Demand Cost Allocation Method

	Non-Gas Revenue	Rate of	Relative	Revenue	Percent	Rate of	Relative	Percent of
Rate Class	at Current Rates	Return	ROR	Change	Change	Return	ROR	Total Increase
Residential Service	273,991,108	3.40%	0.74	65,615,916	23.9%	6.67%	0.83	69.2%
Small General Service	33,951,754	4.60%	1.00	8,130,831	23.9%	7.74%	0.97	8.6%
Medium General Service	45,000,023	8.80%	1.91	10,776,692	23.9%	12.38%	1.55	11.4%
Large General Service	43,112,951	10.33%	2.24	10,324,772	23.9%	14.97%	1.87	10.9%
Total Company	396,055,837	4.61%	1.00	94,848,212	23.9%	8.00%	1.00	100.0%

#### **Table 4 - Proposed Class Revenue Apportionment**

	Non-Gas Revenue	Rate of	Relative	Revenue	Percent	Rate of	Relative	Percent of
Rate Class	at Current Rates	Return	ROR	Change	Change	Return	ROR	Total Increase
Residential Service	273,991,108	3.40%	0.74	79,862,244	29.1%	7.45%	0.93	84.2%
Small General Service	33,951,754	4.60%	1.00	8,742,577	25.8%	8.00%	1.00	9.2%
Medium General Service	45,000,023	8.80%	1.91	4,950,003	11.0%	10.12%	1.26	5.2%
Large General Service	43,112,951	10.33%	2.24	1,293,389	3.0%	10.28%	1.29	1.4%
Total Company	396,055,837	4.61%	1.00	94,848,212	23.9%	8.00%	1.00	100.0%

#### Peoples Natural Gas Company LLC . Proposed Rates

	Proposed Base Rate		F	ider B - Gas Co	osts		Rider	Proposed Rider	Rider Supplier	Rider	Proposed Rider	Rider	Ride	r Rider	Bil	l Display
	Charges	Capacity	AVC Capaci		Commodity	BB&A	STAS	MFC	Choice	USR	GPC	Rate Cre				tal Rate
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15=S	UM 1 to 14)
SALES Basidantial Samias																
<u>Residential Service</u> Customer Charge	\$ 20.00								\$ 0.0067				\$ -	\$ -	\$	20.01
customer charge	Ş 20.00								\$ 0.0007				- ڊ		<u>ې</u>	20.01
Capacity		\$ 1.0398	\$ 0.622	25				\$ 0.0259							\$	1.6882
PTC - Commodity Charge		,		\$ (0.0418	)\$ 2.9474			\$ 0.0723			\$ 0.0801				\$	3.0580
Delivery Charge	\$ 3.8753									\$ 0.4094		\$-	\$ -	\$-	\$	4.2847
State Tax Surcharge							\$-								\$	-
Total per MCF															\$	9.0309
Small General Service Customer Charge																
0-499	\$ 25.00								\$ 0.0067				\$ -	\$ -	\$	25.01
500 - 999	\$ 40.00								\$ 0.0067				\$ -	\$ -	\$	40.01
	-												,			
Capacity		\$ 0.3848	\$ 0.574	5											\$	0.9593
PTC - Commodity Charge		\$ 0.6550		\$ (0.0418	)\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.6490
Delivery Charge	\$ 2.8312											\$-	\$ -	\$ -	\$	2.8312
State Tax Surcharge							\$ -								\$	-
Total per MCF															\$	7.4395
Small General Service - Pe	onloc' Transiti	ional Induct	rial Patanay													
Customer Charge	opies transiti	ional industr	паї катераує	<u>ers</u>												
0-499	\$ 25.00								\$ 0.0067				Ś -	\$ -	\$	25.01
500 - 999	\$ 40.00								\$ 0.0067				\$ -	\$ -	\$	40.01
														· · ·		
Capacity		\$ 0.3848	\$ 0.574	5											\$	0.9593
PTC - Commodity Charge		\$ 0.6550		\$ (0.0418	) \$ 2.9474										\$	3.6490
				\$ (0.0418	) > 2.9474			\$ 0.0083			\$ 0.0801				· ·	3.0450
Delivery Charge	\$ 2.4430			\$ (0.0418	) > 2.9474			\$ 0.0083			\$ 0.0801	\$ -	\$ -	\$ -	\$	2.4430
State Tax Surcharge	\$ 2.4430			\$ (0.0418	) > 2.3474		\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ -	\$ -	\$ \$	2.4430
	\$ 2.4430			\$ (0.0418	) > 2.9474		\$ -	\$ 0.0083			\$ 0.0801	\$-	\$ -	\$ -	\$	2.4430
State Tax Surcharge Total per MCF	\$ 2.4430			\$ (0.0418	) > 2.3474		\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ -	\$ -	\$ \$	2.4430
State Tax Surcharge Total per MCF Medium General Service	\$ 2.4430			\$ (0.0418	) > 2.3474		\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ -	\$ -	\$ \$	2.4430
State Tax Surcharge Total per MCF <u>Medium General Service</u> Customer Charge				\$ (0.0418	, , 2.34/4		\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ -	\$ -	\$ \$	2.4430 - 7.0513
State Tax Surcharge Total per MCF Medium General Service Customer Charge 1,000 - 2,499	\$ 2.4430 \$ 100.00 \$ 200.00			\$ (0.0418	, , 2.34/4		\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ - \$ - \$ -	\$ - 	\$ \$	2.4430
State Tax Surcharge Total per MCF <u>Medium General Service</u> Customer Charge	\$ 100.00			\$ (0.0418	, , 2.34/4		\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ -	\$ -	\$ \$	2.4430 - 7.0513 100.00
State Tax Surcharge Total per MCF Medium General Service Customer Charge 1,000 - 2,499	\$ 100.00		\$ 0.375		, , 2.34/4		\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ -	\$ -	\$ \$	2.4430 - 7.0513 100.00
State Tax Surcharge Total per MCF Medium General Service Customer Charge 1,000 - 2,499 2,500 - 24,999	\$ 100.00		\$ 0.375				\$ -	\$ 0.0083			\$ 0.0801	\$ -	\$ - \$ -	\$ -	\$ \$ \$ \$ \$ \$	2.4430 - 7.0513 100.00 200.00
State Tax Surcharge Total per MCF Medium General Service Customer Charge 1,000 - 2,499 2,500 - 24,999 Capacity PTC - Commodity Charge Delivery Charge	\$ 100.00	\$ 0.3848 \$ 0.6550	\$ 0.375	50				· · · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · · ·	\$ - \$ -	\$ -	\$ -	\$ \$ \$ \$ \$ \$ \$ \$	2.4430 - 7.0513 100.00 200.00 0.7598
State Tax Surcharge Total per MCF Medium General Service Customer Charge 1,000 - 2,499 2,500 - 24,999 Capacity PTC - Commodity Charge	\$ 100.00 \$ 200.00	\$ 0.3848 \$ 0.6550	\$ 0.375	50			\$ -	· · · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · · ·		\$ - \$ -	\$ - \$ -	\$ \$ \$ \$ \$ \$	2.4430 - 7.0513 100.00 200.00 0.7598 3.6490

Proposed Rates																Page
	Proposed Base Rate			er B - Gas Cos			Rider	Proposed Rider	Rider Supplier	Rider	Proposed Rider	Rider	Rider	Rider		II Display
	Charges (1)	Capacity (2)	AVC Capacity (3)	GCA (4)	Commodity (5)	BB&A (6)	STAS (7)	MFC (8)	Choice (9)	USR (10)	GPC (11)	Rate Credit (12)	DSIC (13)	TCJA (14)		otal Rate SUM 1 to 14)
Medium General Service -	Doonlos' Tron	citional Ind	ustrial Batanov	0.45												
Customer Charge	Peoples Tran		ustrial Katepay	ers												
1,000 - 2,499	\$ 100.00												\$ - \$ -	\$ - \$ -	\$	100.00
2,500 - 24,999	\$ 200.00												Ş -	Ş -	\$	200.00
Capacity		\$ 0.3848	\$ 0.3750												\$	0.7598
PTC - Commodity Charge	¢ 2.4245	\$ 0.6550		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801	<i>*</i>	ć	<u> </u>	\$	3.6490
Delivery Charge State Tax Surcharge	\$ 2.1315						Ś -					\$-	\$ -	\$ -	\$ \$	2.1315
Total per MCF							Ŷ								\$	6.5403
Large General Service																
Customer Charge																
25,000 - 49,999	\$ 700.00												\$ -	\$ -	\$	700.00
Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
PTC - Commodity Charge		\$ 0.9586		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
Delivery Charge 25,000 - 49,999	\$ 2.4581											\$ -	\$ -	\$ -	\$	2.4581
State Tax Surcharge	<u> </u>						\$ -					- <u>د</u>	- ڊ	- ڊ	\$	- 2.4581
Total per MCF															\$	6.7070
Large General Service																
Customer Charge 50,000 - 99,999	\$ 1,300.00												\$ -	\$ -	\$	1,300.00
50,000 - 55,555	\$ 1,500.00												Ş -	Ş -	Ş	1,500.00
Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
PTC - Commodity Charge Delivery Charge		\$ 0.9586		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
50,000 - 99,999	\$ 2.4109											\$ -	\$ -	\$ -	\$	2.4109
State Tax Surcharge							\$ -								\$	-
Total per MCF															\$	6.6598
Large General Service																
Customer Charge 100,000 - 199,999	ć 1 400 00												ć	\$ -	\$	1,400.00
100,000 - 133,333	\$ 1,400.00												- ڊ	<b>э</b> -	Ş	1,400.00
Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
PTC - Commodity Charge		\$ 0.9586		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
Delivery Charge 100,000 - 199,999	\$ 2.3636											\$ -	\$ -	\$ -	\$	2.3636
State Tax Surcharge							\$-					,			\$	-
															+	

# Peoples Natural Gas Company LLC

Proposed Rates

Total per MCF

\$

6.6125

#### Peoples Natural Gas Company LLC Proposed Rates

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Cacomer Charge       5.0000       S.0.001       S.0.002		Proposed Base Rate		Ride	r B - Gas Cos	ts		Rider	Proposed Rider	Rider Supplier	Rider	Proposed Rider	Rider	Rider	Rider	Bi	ll Display
Signed Service Curtomer Charge > 200,000         Signed Signe																	
Cacomer Charge       5.0000       S.0.001       S.0.002		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15=S	UM 1 to 14
PTC - Commodity Charge Delivery Charge Delivery Charge Delivery Charge Total per MCF Catomer Charge 200,000 S 1,600.00 S 1,512 S 0,0812 S 0,0813 S 0,0801 S 0,	Large General Service Customer Charge > 200,000	\$ 1,600.00												\$ -	\$ -	\$	1,600.00
Delivery Charge         S <ths< th="">         S         S</ths<>	Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
200,000 (r 0:49,999)       \$ -	PTC - Commodity Charge		\$ 0.9586		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
Source         Source<		\$ 2.2454											\$ -	\$ -	\$ -	\$	2.2454
Large General Service Customer Charge         S	State Tax Surcharge							\$-									-
Customer Charge       \$1,600.00       \$ 0.0812 \$ 0.2151       .       \$ 0.0803       \$ 0.0801       .       \$ 0.2050         Per C- commodity Charge       \$ 0.99586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       .       \$ 0.9296         Per C- commodity Charge       \$ 1.9617       .       \$ .	Total per MCF															Ş	6.4943
Capacity CPC - Commodity Charge       \$ 0.0812 \$ 0.2151       \$ 0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 0.29         PEC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Polivery Charge       \$ 1.9617       \$ -       \$ -       \$ -       \$ -         Total per MCF       \$ 1.9617       \$ 0.0812 \$ -       \$ -       \$ -       \$ -         Large General Service       \$ 1.9617       \$ 0.0812 \$ 0.2151       \$ -       \$ 0.0801       \$ 0.29         Customer Charge       \$ 0.0812 \$ 0.2151       \$ -       \$ 0.0801       \$ 0.29         PC - Commodity Charge       \$ 0.0812 \$ 0.2151       \$ 0.29474       \$ 0.0083       \$ 0.0801       \$ 0.29         PC - Commodity Charge       \$ 0.0812 \$ 0.2151       \$ 0.29474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 0.5956       \$ 0.01418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 1.5127       \$ 0.2151       \$ 5 - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Large General Service Customer Charge > 200.000	\$ 1.600.00												\$-	\$ -	Ś	1,600.00
PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 1.9617       \$ - <td></td> <td>+</td> <td>+</td> <td></td> <td></td>														+	+		
Delivery Charge         S				\$ 0.2151	\$ (0.0418)	\$ 2 9/17/			\$ 0.0083			\$ 0.0801					0.296
750,000 to 1,999,999       \$ 1.9617       \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	, ,		\$ 0.9560		\$ (0.0418)	Ş 2.9474			\$ 0.0085			\$ 0.0801				Ş	3.952
Total per MCF       \$ 0.021       \$ 0.221         Large General Service       \$ 1,600.00       \$ -       \$ -       \$ -       \$ -       \$ 0.22         Capacity       \$ 0.0812       \$ 0.02151       \$ 0.229       \$ 0.0801       \$ 0.229         PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 0.29         Over 2,000,000       \$ 1.5127       \$ 1.5127       \$ -       \$ 1.512       \$ -       \$ 1.512         State Tax Surcharge       \$ 0.09586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ - </td <td></td> <td>\$ 1.9617</td> <td></td> <td>\$-</td> <td>\$-</td> <td>\$-</td> <td>\$</td> <td>1.961</td>		\$ 1.9617											\$-	\$-	\$-	\$	1.961
Large General Service Customer Charge         \$ 1,600.00         \$ -         \$ -         \$ -         \$ -         \$ -         \$ 0.200           Capacity PCI - Commodity Charge         \$ 0.0812 \$ 0.2151         \$ 0.0803         \$ 0.0801         \$ 0.29           Delivery Charge Delivery Charge         \$ 0.9586         \$ (0.0418) \$ 2.9474         \$ 0.0083         \$ 0.0801         \$ 0.29           Over 2,000,000         \$ 1.5127         \$ -	State Tax Surcharge							\$ -									-
Customer Charge > 200,000       \$ 1,600.00       \$ 1,600.00       \$ 1,600.00       \$ 1,600.00       \$ 1,600.00       \$ 1,600.00       \$ 1,600.00       \$ 1,600.00       \$ 1,600.00       \$ 0.2151       \$ 0.2251       \$ 0.2050 <td>Total per MCF</td> <td></td> <td>\$</td> <td>6.2106</td>	Total per MCF															\$	6.2106
PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 1.5127       \$ - \$ - \$ - \$ \$ - \$ 1.51         State Tax Surcharge       \$ -       \$ -       \$ - \$ - \$ \$ - \$ \$ 1.51         Total per MCF       \$ -       \$ - \$ - \$ \$ - \$ \$ 1.51         Large General Service - Peoples' Transitional Industrial Ratepayers       \$ 5.76         Customer Charge       \$ 700.00       \$ 700.00         25,000 - 49,999       \$ 700.00       \$ 0.0812 \$ 0.2151       \$ 0.029         Capacity       \$ 0.0812 \$ 0.2151       \$ 0.0083       \$ 0.0801       \$ 0.29         Delivery Charge       \$ 0.09586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 0.29         Z5,000 - 49,999       \$ 2.1248       \$ 0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 2.1248       \$ 0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         State Tax Surcharge       \$ 2.1248       \$ 2.1248       \$ 2.9474       \$ 0.0083       \$ 0.9801       \$ 2.122         State Tax Surcharge       \$ - \$ - \$ \$ - \$ \$ - \$ \$ 2       \$ 0.29       \$ 2.122       \$ 2.122       \$ 2.122	Large General Service Customer Charge > 200,000	\$ 1,600.00												\$ -	\$ -	\$	1,600.00
PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 1.5127       \$ - \$ - \$ - \$ \$ - \$ 1.51         State Tax Surcharge       \$ -       \$ -       \$ - \$ - \$ \$ - \$ \$ 1.51         Total per MCF       \$ -       \$ - \$ - \$ \$ - \$ \$ 1.51         Large General Service - Peoples' Transitional Industrial Ratepayers       \$ 5.76         Customer Charge       \$ 700.00       \$ 700.00         25,000 - 49,999       \$ 700.00       \$ 0.0812 \$ 0.2151       \$ 0.029         Capacity       \$ 0.0812 \$ 0.2151       \$ 0.0083       \$ 0.0801       \$ 0.29         Delivery Charge       \$ 0.09586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 0.29         Z5,000 - 49,999       \$ 2.1248       \$ 0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 2.1248       \$ 0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         State Tax Surcharge       \$ 2.1248       \$ 2.1248       \$ 2.9474       \$ 0.0083       \$ 0.9801       \$ 2.122         State Tax Surcharge       \$ - \$ - \$ \$ - \$ \$ - \$ \$ 2       \$ 0.29       \$ 2.122       \$ 2.122       \$ 2.122	Capacity		\$ 0.0812	Ś 0.2151												ć	0.296
Over 2,000,000       \$ 1.5127       \$ - \$ - \$ - \$ 1.51         State Tax Surcharge       \$ -       \$ -       \$ - \$ - \$ \$ - \$ \$ 1.51         Total per MCF       \$ -       \$ -       \$ - \$ - \$ \$ - \$ \$ - \$ \$ 5.76         Large General Service - Peoples' Transitional Industrial Ratepayers       \$ 5.76       \$ 5.76         Customer Charge       \$ 700.00       \$ - \$ - \$ \$ - \$ \$ 700.00         25,000 - 49,999       \$ 700.00       \$ - \$ - \$ \$ - \$ \$ 700.00         Capacity       \$ 0.0812 \$ 0.2151       \$ 0.2151         PTC - Commodity Charge       \$ 0.9586 \$ (0.0418) \$ 2.9474       \$ 0.0083 \$ 0.0801       \$ 0.29         25,000 - 49,999       \$ 2.1248       \$ 2.9474       \$ 0.0083       \$ 0.801       \$ 3.95         Delivery Charge       \$ 2.1248       \$ 0.29474       \$ 0.0083       \$ 0.801       \$ 3.95         State Tax Surcharge       \$ 2.1248       \$ 5.76       \$ 2.122       \$ 2.1248       \$ 5.76	PTC - Commodity Charge		-	Ş 0.2131	\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801					3.952
State Tax Surcharge       \$ -<	Delivery Charge	<u> </u>											*	<i>k</i>	<i>k</i>	<u>,</u>	4 542
Total per MCF       \$ 5.76         Large General Service - Peoples' Transitional Industrial Ratepayers         Customer Charge         25,000 - 49,999       \$ 700.00       \$ - \$ - \$ 700.00         Capacity       \$ 0.0812 \$ 0.2151       \$ 0.297         PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 2.1248       \$ 2.1248       \$ - \$ - \$ - \$ 2.12       \$ 2.12         State Tax Surcharge       \$ - \$ - \$ - \$ 2.12       \$ - \$ - \$ 2.12       \$ - \$ - \$ 2.12		\$ 1.5127						ć					Ş -	Ş -	Ş -		1.512
Customer Charge       \$ 700.00       \$ - \$ - \$ 700.00         Capacity       \$ 0.0812 \$ 0.2151       \$ 0.297         Capacity PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 2.1248       \$ 2.1248       \$ 2.1248       \$ 2.122         State Tax Surcharge       \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Total per MCF							- Ç									5.761
Customer Charge       \$ 700.00       \$ - \$ - \$ 700.00         Capacity       \$ 0.0812 \$ 0.2151       \$ 0.297         Capacity PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 2.1248       \$ 2.1248       \$ 2.1248       \$ 2.122         State Tax Surcharge       \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -																	
\$ 700.00       \$ 700.00       \$ - \$ - \$ 700.00         Capacity       \$ 0.0812 \$ 0.2151       \$ 0.297         PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       \$ 2.1248       \$ 2.1248       \$ 2.122       \$ 2.1248       \$ 2.122         State Tax Surcharge       \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		oples' Transiti	onal Indust	rial Ratepayers													
PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       -       -       \$ -       \$ -       \$ 2.1248         State Tax Surcharge       \$ -	-	\$ 700.00												\$-	\$-	\$	700.0
PTC - Commodity Charge       \$ 0.9586       \$ (0.0418) \$ 2.9474       \$ 0.0083       \$ 0.0801       \$ 3.95         Delivery Charge       -       -       \$ -       \$ -       \$ 2.1248         State Tax Surcharge       \$ -	Capacity		\$ 0.0812	Ś 0.2151												Ś	0.296
25,000 - 49,999       \$ 2.1248       \$ - \$ - \$ - \$ 2.12         State Tax Surcharge       \$ -       \$ -	PTC - Commodity Charge		-	÷ 0.2131	\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801					3.952
State Tax Surcharge \$ - \$ -	Delivery Charge																
		\$ 2.1248						~					\$-	\$ -	\$ -	· ·	2.124
	State Tax Surcharge Total per MCF							Ş -									6.373

Peoples Natural Gas Cor	npany LLC														Pe	oples Exhibit RAF-5
Proposed Rates																Page 4 of 10
	Proposed							Proposed	Rider		Proposed					
	Base Rate		Rid	er B - Gas Co	osts		Rider	Rider	Supplier	Rider	Rider	Rider	Rider	Rider	В	ill Display
	Charges	Capacity		GCA	Commodity	BB&A	STAS	MFC	Choice	USR	GPC	Rate Credit	DSIC	TCJA		otal Rate
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15=	SUM 1 to 14)
Large General Service - Pe	oples' Transiti	onal Indust	trial Ratepayers	<u>i</u>												
Customer Charge 50,000 - 99,999	\$ 1,300.00												\$ -	\$ -	\$	1,300.00
Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
PTC - Commodity Charge Delivery Charge		\$ 0.9586		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
50,000 - 99,999	\$ 2.0840											\$-	\$ -	\$ -	\$	2.0840
State Tax Surcharge Total per MCF							\$ -								\$ \$	6.3329
															Ş	0.3325
Large General Service - Pe Customer Charge	oples' Transiti	onal Indust	trial Ratepayers	i												
100,000 - 199,999	\$ 1,400.00												\$ -	\$ -	\$	1,400.00
Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
PTC - Commodity Charge		\$ 0.9586		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
Delivery Charge 100,000 - 199,999	\$ 2.0432											\$ -	\$ -	\$ -	\$	2.0432
State Tax Surcharge							\$-								\$	-
Total per MCF															\$	6.2921
Large General Service - Pe	oples' Transiti	onal Indust	trial Ratepayers	i												
Customer Charge > 200,000	\$ 1,600.00												\$ -	\$ -	\$	1,600.00
Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
PTC - Commodity Charge		\$ 0.9586	,	\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
Delivery Charge 200,000 to 749,999	\$ 1.9409											\$ -	\$ -	\$ -	\$	1.9409
State Tax Surcharge							\$ -					Ŧ	+	+	\$	-
Total per MCF															\$	6.1898
Large General Service - Pe	oples' Transiti	onal Indust	trial Ratepayers	i												
Customer Charge	ć 1 coo oo												ć	ć	ć	1 600 00
> 200,000	\$ 1,600.00												\$ -	\$ -	\$	1,600.00
Capacity		\$ 0.0812	\$ 0.2151												\$	0.2963
PTC - Commodity Charge Delivery Charge		\$ 0.9586		\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$	3.9526
750,000 to 1,999,999	\$ 1.7553											\$-	\$-	\$ -	\$	1.7553
State Tax Surcharge Total per MCF							\$-								\$ \$	6.0042
															2	0.0042

Peoples Natural Gas Con Proposed Rates	npany LLC														Pe	oples Exhibit RAF-5 Page 5 of 10	
	Proposed Base Rate Charges	Capacity	Rid AVC Capacity	er B - Gas Cos GCA	sts Commodity	BB&A	Rider STAS	Proposed Rider MFC	Rider Supplier Choice	Rider USR	Proposed Rider GPC	Rider Rate Credit	Rider DSIC	Rider TCJA		ll Display otal Rate	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		5UM 1 to 14)	
Large General Service - Peo Customer Charge > 200,000	<b>pples' Transiti</b> \$ 1,600.00	onal Indust	trial Ratepayers	<u>i</u>									\$ -	\$ -	\$	1,600.00	
Capacity PTC - Commodity Charge		\$ 0.0812 \$ 0.9586	\$ 0.2151	\$ (0.0418)	\$ 2.9474			\$ 0.0083			\$ 0.0801				\$ \$	0.2963 3.9526	
Delivery Charge Over 2,000,000 State Tax Surcharge	\$ 1.5127						\$ -					\$-	\$ -	\$-	\$ \$	1.5127	
Total per MCF															\$	5.7616	

#### Peoples Natural Gas Company LLC Proposed Rates

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	Proposed							Proposed	Rider		Proposed				
	Base Rate			r B - Gas (			Rider	Rider	Supplier	Rider	Rider	Rider	Rider	Rider	Bill Displ
	Charges	Capacity	. ,	GCA	Commodity	BB&A	STAS	MFC	Choice	USR	GPC	Rate Credit		TCJA	Total Ra
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15=SUM 1
TRANSPORTATION															
GS-T (Residential)	ć 20.00								¢ 0.0007				ć	ć	ć
Customer Charge	\$ 20.00								\$ 0.0067				\$ -	\$ -	\$
Capacity		\$ 1.0398	\$ 0.6225					\$ 0.0259							\$ 1
Delivery Charge	\$ 3.8753									\$ 0.4094		\$-	\$-	\$ -	\$ 4
State Tax Surcharge							\$-								\$
Total per MCF															\$5
GS-T (SGS)															
Customer Charge															
0-499	\$ 25.00								\$ 0.0067				\$ -	\$ -	\$
500 - 999	\$ 40.00								\$ 0.0067				\$-	\$ -	\$
Capacity			\$ 0.5745			\$ 0.3848									\$ 0
Delivery Charge	\$ 2.8312		+ 0.07.10			+ 0.00.0						Ś -	Ś -	\$ -	\$ 2
State Tax Surcharge	+						\$ -					•	7	+	\$
Total per MCF															\$ 3
GS-T (SGS) - Peoples' Tr Customer Charge	ansitional indus	trial Katepa	iyers												
0-499	\$ 25.00								\$ 0.0067				\$ -	\$ -	\$
500 - 999	\$ 40.00								\$ 0.0067				\$ -	\$ -	\$
Capacity			Ś 0.5745			\$ 0.3848									\$ 0
Delivery Charge	\$ 2.4430		\$ 0.5745			Ş 0.3848						\$ -	Ś -	\$ -	\$ 0 \$ 2
State Tax Surcharge	<u> </u>						\$ -					<b>,</b>	- Ç	- Ç	\$ 2
Total per MCF							Ļ –								\$ 3
GS-T (MGS)															
Customer Charge															
1,000 - 2,499	\$ 100.00												\$ -	\$ -	\$ 1
2,500 - 24,999	\$ 200.00												ş - \$ -	\$ - \$ -	\$ 1 \$ 2
	<u> </u>														
Capacity	<u> </u>		\$ 0.3750			\$ 0.3848									\$ 0
Delivery Charge	\$ 2.4794											\$-	\$-	\$ -	\$ 2
State Tax Surcharge							\$ -								\$
Total per MCF															\$ 3

#### Proposed Proposed Rider Proposed Base Rate Rider B - Gas Costs Rider Rider Supplier Rider Rider Rider Rider Rider Bill Display Charges Capacity AVC Capacity GCA Commodity BB&A STAS MFC Choice USR GPC Rate Credit DSIC TCJA Total Rate (7) (8) (9) (10) (11) (13) (14) (15=SUM 1 to 14) (1) (2) (3) (4) (5) (6) (12) GS-T (MGS) - Peoples' Transitional Industrial Ratepayers **Customer Charge** 1,000 - 2,499 \$ 100.00 100.00 \$ -\$ -\$ \$ 200.00 Ś -Ś 2,500 - 24,999 Ś -200.00 Capacity \$ 0.3750 \$ 0.3848 \$ 0.7598 \$ 2.1315 \$ \$ -\$ -\$ 2.1315 Delivery Charge -State Tax Surcharge \$ -\$ -Total per MCF Ś 2.8913 GS-T (LGS) **Customer Charge** 25,000 - 49,999 \$ 700.00 \$ - \$ - \$ 700.00 \$ \$ 0.0812 \$ Capacity 0.2151 0.2963 Delivery Charge 25,000 - 49,999 \$ 2.4581 Ś -\$ -\$ 2.4581 State Tax Surcharge \$ -\$ -\$ 2.7544 Total per MCF GS-T (LGS) **Customer Charge** 50,000 - 99,999 \$ - \$ - \$ 1,300.00 \$ 1,300.00 \$ 0.2151 \$ 0.0812 \$ 0.2963 Capacity Delivery Charge 50,000 - 99,999 \$ 2.4109 Ś -\$ -\$ 2.4109 State Tax Surcharge \$ -\$ -\$ 2.7072 Total per MCF GS-T (LGS) **Customer Charge** \$ 1,400.00 100,000 - 199,999 \$ - \$ -\$ 1,400.00 \$ 0.0812 Capacity \$ 0.2151 \$ 0.2963 **Delivery Charge** 100,000 - 199,999 \$ 2.3636 \$ -\$ -\$ 2.3636 State Tax Surcharge \$ -\$ -\$ Total per MCF 2.6599

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Peoples Natural Gas Company LLC

Proposed Rates

#### Peoples Natural Gas Company LLC Proposed Rates

Total per MCF

	Proposed Base Rate			Rider E	3 - Gas C	osts		Rider	Proposed Rider	Rider Supplier	Rider	Proposed Rider	Rider	Rider	Rider	Bi	ll Display
	Charges	Capacity	AVC Cap		GCA	Commodity	BB&A	STAS	MFC	Choice	USR	GPC	Rate Credit	DSIC	TCJA		otal Rate
	(1)	(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15=S	UM 1 to 14)
GS-T (LGS) Customer Charge > 200,000	\$ 1,600.00													\$ -	\$ -	\$	1,600.00
Capacity Delivery Charge			\$ 0.2	2151			\$ 0.0812									\$	0.2963
200,000 to 749,999	\$ 2.2454													\$ -	\$ -	\$	2.2454
State Tax Surcharge								\$-								\$	-
Total per MCF																\$	2.5417
GS-T (LGS) Customer Charge	¢ 1 coo oo													¢	<u>,</u>	¢	1 600 00
> 200,000	\$ 1,600.00													\$ -	\$ -	\$	1,600.00
Capacity			\$ 0.2	2151			\$ 0.0812									\$	0.2963
PTC - Commodity Charge																\$	-
750,000 to 1,999,999 State Tax Surcharge	\$ 1.9617							\$ -						\$ -	\$ -	\$ \$	1.9617
Total per MCF								Ş -								\$	2.2580
GS-T (LGS) Customer Charge > 200,000	\$ 1,600.00													\$ -	\$ -	\$	1,600.00
Capacity			\$ 0.2	2151			\$ 0.0812									\$	0.2963
Delivery Charge																	
Over 2,000,000 State Tax Surcharge	\$ 1.5127							\$ -						\$ -	\$ -	\$ \$	1.5127
Total per MCF								Ş -								\$ \$	1.8090
GS-T (LGS) - Peoples' Trans Customer Charge		rial Ratepa	<u>vers</u>														
25,000 - 49,999	\$ 700.00													\$ -	\$ -	\$	700.00
Capacity Delivery Charge			\$ 0.2	2151			\$ 0.0812									\$	0.2963
25,000 - 49,999	\$ 2.1248							<i>k</i>						\$ -	\$ -	\$	2.1248
State Tax Surcharge								\$ -								\$	-

## Peoples Exhibit RAF-5

\$

2.4211

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Peoples Natural Gas Co Proposed Rates	mpany LLC														Pe	oples Exhib Page
	Proposed Base Rate			r B - Gas C			Rider	Proposed Rider	Rider Supplier	Rider	Proposed Rider	Rider	Rider	Rider		ill Display
	Charges (1)	Capacity (2)	AVC Capacity (3)	GCA (4)	Commodity (5)	BB&A	STAS	MFC (8)	Choice	USR (10)	GPC (11)	Rate Credit (12)	DSIC (13)	TCJA (14)		otal Rate SUM 1 to 14)
	(1)	(2)	(5)	(4)	(5)	(6)	(7)	(0)	(9)	(10)	(11)	(12)	(15)	(14)	(15=	50101 1 (0 14)
GS-T (LGS) - Peoples' Trar	nsitional Industr	rial Ratepa	yers													
Customer Charge 50,000 - 99,999	\$ 1,300.00												\$ -	\$ -	\$	1,300.00
Capacity Delivery Charge			\$ 0.2151			\$ 0.0812									\$	0.2963
50,000 - 99,999	\$ 2.0840												\$ -	\$ -	\$	2.0840
State Tax Surcharge							\$-								\$	-
Total per MCF															\$	2.3803
<u>GS-T (LGS) - Peoples' Trar</u> Customer Charge	nsitional Industr	rial Ratepa	yers													
100,000 - 199,999	\$ 1,400.00												\$-	\$ -	\$	1,400.00
Capacity Delivery Charge			\$ 0.2151			\$ 0.0812									\$	0.2963
100,000 - 199,999	\$ 2.0432												\$ -	\$ -	\$	2.0432
State Tax Surcharge							\$-								\$	-
Total per MCF															\$	2.3395
GS-T (LGS) - Peoples' Trar	nsitional Industr	rial Ratepa	yers													
Customer Charge > 200,000	\$ 1,600.00												\$-	\$ -	\$	1,600.00
Capacity	_		\$ 0.2151			\$ 0.0812									\$	0.2963
Delivery Charge	<u> </u>												<i>.</i>		<u> </u>	1.0.100
200,000 to 749,999 State Tax Surcharge	\$ 1.9409						\$ -						\$ -	\$ -	\$ \$	1.9409 -
Total per MCF							- <del></del>								\$	2.2372
<u>GS-T (LGS) - Peoples' Trar</u> Customer Charge	nsitional Industr	rial Ratepa	<u>yers</u>													
> 200,000	\$ 1,600.00												\$-	\$ -	\$	1,600.00
Capacity			\$ 0.2151			\$ 0.0812									\$	0.2963
Delivery Charge 750,000 to 1,999,999	\$ 1.7553												\$ -	\$ -	\$	1.7553
State Tax Surcharge	<u>در ۱</u> .۲. پ						\$ -						- Ç		\$	-
Total per MCF															\$	2.0516

Peoples Natural Gas Co Proposed Rates	mpany LLC														Peo	ples Exhibit RAF- Page 10 of 10
	Proposed Base Rate		Ride	r B - Gas C	osts		Rider	Proposed Rider	Rider Supplier	Rider	Proposed Rider	Rider	Rider	Rider	Bill	Display
	Charges	Capacity	AVC Capacity	GCA	Commodity	BB&A	STAS	MFC	Choice	USR	GPC	Rate Credit	DSIC	TCJA	Tot	tal Rate
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15=SU	JM 1 to 14)
GS-T (LGS) - Peoples' Tra	nsitional Indust	trial Ratepa	yers													
Customer Charge > 200,000	\$ 1,600.00												\$ -	\$ -	\$	1,600.00
Capacity Delivery Charge			\$ 0.2151			\$ 0.0812									\$	0.2963
Over 2,000,000	\$ 1.5127												\$ -	\$ -	\$	1.5127
State Tax Surcharge							\$ -								\$	-
Total per MCF															\$	1.8090

## Peoples Natural Gas Company LLC Residential Monthly Bill Comparisons

## **Peoples Division**

	Usage	Present Rates Monthly Bill		-1		1	Monthly Ch	ange in Bill
Month	(Mcf)		Monthly Bill		Monthly Bill		Amount	Percent
January	9.6	\$	94.70	\$	106.70	\$	12.00	12.7%
February	13.7	\$	129.17	\$	143.73	\$	14.56	11.3%
March	15.3	\$	142.62	\$	158.18	\$	15.56	10.9%
April	13.1	\$	124.13	\$	138.31	\$	14.19	11.4%
May	10.9	\$	105.63	\$	118.44	\$	12.81	12.1%
June	6.2	\$	66.11	\$	76.00	\$	9.88	15.0%
July	3.5	\$	43.41	\$	51.61	\$	8.20	18.9%
August	1.9	\$	29.96	\$	37.17	\$	7.20	24.0%
September	1.6	\$	27.44	\$	34.46	\$	7.02	25.6%
October	1.6	\$	27.44	\$	34.46	\$	7.02	25.6%
November	2.4	\$	34.16	\$	41.68	\$	7.52	22.0%
December	6.2	\$ 66.11		\$	76.00	\$	9.88	15.0%
Total	86.0	\$ 890.89		\$	1,016.74	\$	125.85	14.1%

Bill Component	Pr	esent Rates	Pr	oposed Rates
Monthly Service Charge	\$	13.95	\$	20.00
Rider DSIC	\$	0.6975	\$	-
Rider TCJA	\$	(0.6728)	\$	-
Rider Supplier Choice	\$	0.0115	\$	0.0067
Base Cost of Gas	\$	4.5679	\$	4.5679
Delivery Rate	\$	3.1330	\$	3.8753
Rider STAS	\$	(0.0072)	\$	-
Rider MFC	\$	0.1024	\$	0.0982
Rider USR	\$	0.4667	\$	0.4094
Rider GPC	\$	0.1055	\$	0.0801
Rider Rate Credit	\$	-	\$	-
Rider DSIC	\$	0.1904	\$	-
Rider TCJA	\$	(0.1511)	\$	-

## Peoples Natural Gas Company LLC Residential Monthly Bill Comparisons

# Equitable Division

	Usage	F	Present Rates	Pr	oposed Rates	١	Monthly Cha	ange in Bill
Month	(Mcf)		Monthly Bill		Monthly Bill		Amount	Percent
January	9.6	\$	90.43	\$	106.70	\$	16.27	18.0%
February	13.7	\$	123.52	\$	143.73	\$	20.21	16.4%
March	15.3	\$	136.43	\$	158.18	\$	21.75	15.9%
April	13.1	\$	118.68	\$	138.31	\$	19.64	16.5%
May	10.9	\$	100.92	\$	118.44	\$	17.52	17.4%
June	6.2	\$	62.99	\$	76.00	\$	13.00	20.6%
July	3.5	\$	41.21	\$	551.61		10.41	25.3%
August	1.9	\$	28.29	\$	37.17	\$	8.87	31.4%
September	1.6	\$	25.87	\$	34.46	\$	8.58	33.2%
October	1.6	\$	25.87	\$	34.46	\$	8.58	33.2%
November	2.4	\$	32.33	\$	41.68	\$	9.35	28.9%
December	6.2	\$	62.99	\$	76.00	\$	13.00	20.6%
Total	86.0	\$	849.54	\$	1,016.74	\$	167.20	19.7%

Bill Component	Pre	esent Rates	Pro	posed Rates
Monthly Service Charge	\$	13.25	\$	20.00
Rider DSIC	\$	0.6625	\$	-
Rider TCJA	\$	(0.9508)	\$	-
Rider Supplier Choice	\$	0.0001	\$	0.0067
Base Cost of Gas	\$	4.5679	\$	4.5679
Delivery Rate	\$	3.1687	\$	3.8753
Rider STAS	\$	(0.0304)	\$	-
Rider MFC	\$	0.1024	\$	0.0982
Rider USR	\$	0.2040	\$	0.4094
Rider GPC	\$	0.1055	\$	0.0801
Rider DSIC	\$	0.1790	\$	-
Rider TCJA	\$	(0.2274)	\$	-

## Peoples Natural Gas Company LLC Derivation of the Merchant Function Charge

Calculation of Uncollectible Natural Gas Costs

Line					
No.	Description				
4	Natural Cas Constant Change	ć 2.045	A /NA-E		
1	Natural Gas Supply Charge	\$ 3.945	4 /Mcf		
	Uncollectible Write-Off Factor				
2	Residential			2.49%	
3	SGS			0.21%	
4	MGS			0.21%	
5	LGS			0.21%	
	Merchant Function Charge (MFC)				
6	Residential	(Line 1 x Line 2)	\$	0.0982	/Mcf
7	SGS	(Line 1 x Line 3)	\$	0.0083	/Mcf
8	MGS	(Line 1 x Line 4)	\$	0.0083	/Mcf
9	LGS	(Line 1 x Line 5)	\$	0.0083	/Mcf

Gas Procurement Cost Analysis - 12 Mos. Ended October 31, 2020

Line No.				Procurement osts - FPFTY
	- Laken and Danafita			USIS - FFFIT
1	Labor and Benefits		<u>,</u>	207 552
2	Gas Supply		\$ \$ <u>\$</u> \$	297,553
3	Accounting Support		Ş	44,431
4	Legal Support		Ş	71,219
5	Regulatory Support		\$	179,264
6	Total Labor & Benefits		\$	592,467
7	Non-Labor Costs			
8	Outside Services - Legal Support		\$	129,400
9	Total Non-Labor Costs		\$	129,400
10	Other Costs			
11	Storage Inventory - Current Gas	\$ 31,115,826		
12	Pre-Tax Return	<u>10.45%</u>		
13	Revenue Requirement	\$ 3,251,604	\$	3,251,604
14	Gastar System - FPFTY Rate Base	\$ 49,396		
15	Pre-Tax Return	<u>10.45%</u>		
16	Revenue Requirement	\$ 5,162	\$	5,162
17	O&M IT Support Costs		\$	73,121
18	DD&A Expense - Gastar		\$	18,176
19	Total Other Costs		\$ \$ \$ \$	3,348,062
20	Total GPC Costs		\$	4,069,929
21	Sale Volumes - Mcf			50,820,315
22	GPC - \$/Mcf		<u>\$</u>	0.0801

Peoples Natural Gas Company LLC Derivation of Supplier Services – Revenue and Cost Comparison

Supplier Service - Revenue and Cost Comparison

		Service Re t Present R			nue Require Based NGS		Propose	d NGS Fee S	structure
	FPFTY Total Bills	Present Fee	FPFTY Revenues	FPFTY Total Bills	Cost Rate	FPFTY Revenues	FPFTY Total Bills	Proposed Rate	FPFTY Revenues
	(1)	(2)	(3)=(1)*(2)	(4)	(5)	(6)=(4)*(5)	(7)	(8)	(9)=(7)*(8)
Billing Service - Peoples Billing Service - Equitable	988,816 254,542	\$ 0.1500 \$ 0.3000	\$ 148,322 \$ 76,363	988,816 254,542	\$ 0.1363 \$ 0.1363	\$ 134,741 \$ 34,685	1,243,358	\$ 0.1500	\$ 186,504
Total			\$ 224,685			\$ 169,426			\$ 186,504

Revenues in Excess of Costs <u>\$ 55,259</u>

Incremental Billing Service - Revenue Requirement

Line No.	Supplier Rate Maintenance & Billing Support	 Hours
1	Monthly Commodity Rate Maintenance	24
2	Monthly Supplier Payments pulling data from reports	40
3	Print/record/scan various reports to support invoice	68
4	Research & respond to supplier questions and billing group questions related to supplier portion of bill	 72
5	Total Hours per Month	204
6	Hourly Employee Rate	\$ 69.21
7	Total Labor Costs per Month	\$ 14,118.84
8	TOTAL COSTS	
9	Annual Labor	\$ 169,426
10	Incremental Mailing Costs	\$ -
11	Total Incremental Costs	\$ 169,426
12	Annual Supplier Bills Issued	1,243,358
13	Cost per Bill Issued	\$ 0.1363

Line No.	-				FPFTY <u>October 31, 2020</u>			
1	Rate Base	1/				\$	136,385	
2	Rate of Return	2/	8.00%			\$	10,907	
3	O&M Expenses	(POR Education)				\$	-	
4	Depreciation Exp	pense	10%			\$	89,924	
5	Federal Income Taxes					\$	10,427	
6	State Income Taxes					\$	1,157	
7	Total POR Administration Costs					\$	112,416	
8	Residential and Small General Sales Revenues 3/					\$	527,430,126	
9	Purchase of Rec			<u>0.0213%</u>				
	1/ <u>Rate Base</u>							
		Capital - POR Development & Administration Accumulated Depreciation Deferred Taxes Total Rate Base				\$ \$ \$ \$	899,241 (689,418) (73,438) 136,385	
	2/	LT Debt Debt - CapEx Common Equity Overall Return		Capitalization 45.12% 1.22% 53.66% 100.00%	Cost of Capital 4.22% 4.69% <u>11.25%</u>		Weighted <u>Component</u> 1.90% 0.06% <u>6.04%</u> 8.00%	

3/ Estimated revenues based on FPFTY RS and SGS sales revenues @ proposed rates.