BOOK IX

UGI Gas Exhibits D, D-1 and D-2
Witness: P.R. Herbert

UGI UTILITIES, INC. - GAS DIVISION

DOCKET NO. R-2015-2518438

COST OF SERVICE ALLOCATION STUDY AS OF SEPTEMBER 30, 2017



UGI Gas Exhibit D Witness: P.R. Herbert

UGI UTILITIES, INC. - GAS DIVISION Docket No. R-2015-2518438

AS OF SEPTEMBER 30, 2017

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC
Harrisburg, Pennsylvania



Excellence Delivered As Promised

January 18, 2016

UGI Utilities, Inc. - Gas Division 2525 N. 12th Street P.O. Box 12677 Reading, PA 19612-2677

Attention Mr. Paul J. Szykman

Vice President - Rates and Government Relations

Ladies and Gentlemen:

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Pursuant to your request, we have prepared a cost of service allocation study based on pro forma revenue requirements for the twelve months ended September 30, 2017.

The attached report presents the results of the study, as well as supporting schedules which set forth the detailed allocation calculations. Schedule A, on page 5, presents a comparison of the cost of service by service classification with the revenues produced by each classification under present and proposed rates.

Respectfully submitted,

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC

PAUL R. HERBERT

President

PRH:krm

060799.200



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PART I. INTRODUCTION

COST OF SERVICE ALLOCATION STUDY AS OF SEPTEMBER 30, 2017

PART I. INTRODUCTION

PLAN OF REPORT

The report sets forth the results of the cost of service allocation study prepared for UGI Utilities, Inc. - Gas Division, based on the twelve months ended September 30, 2017 (FPFTY). Part I, Introduction, includes statements with respect to the basis of the study, the procedures employed, and a summary of the results of the study. Part II, Cost of Service by Service Classification, presents the detailed schedules of the allocation of costs to service classifications, the bases for the allocations, and the development of certain customer and demand costs.

BASIS OF THE STUDY

The purpose of the study was to allocate costs to the several customer classifications based on considerations of quantity of gas consumed; sales and transportation; demand characteristics; and costs associated with metering, billing, and accounting. The allocation study was based on recognized procedures for allocating costs to customer classifications in proportion to each classification's use of the facilities, commodity, and services which entail the total cost of providing gas service.

ALLOCATION PROCEDURES

The allocation study was based on the Average and Extra Demand Method for allocating costs to service classifications. The method is identified as the "Average and Excess Demand Method" in "Gas Rate Fundamentals," (published in 1987 by the

American Gas Association's Rate Committee) in which it is described. The three basic categories of cost responsibility are commodity, capacity, and customer costs. In the Average and Extra Demand Method, the capacity costs are allocated to service classifications on a combined basis of average use and use above average at peak demands. The following presents a brief discussion of costs and the manner in which they were allocated.

Commodity Costs are the costs that tend to vary with the quantity of gas used.

Commodity costs in this study include production plant expenses and associated costs.

Commodity costs were allocated to service classifications on the basis of average daily sales volumes.

Capacity Costs are costs associated with meeting the peak demands of the system. Capacity costs attributable to sales and transportation service include Distribution expenses and capital costs not associated with the customer costs category. The capacity costs were allocated to service classifications on a combined basis of average use and extra demand (demand in excess of average use). For presentation purposes, the commodity and capacity costs are combined into the volumetric function for each classification.

<u>Customer Costs</u> are costs associated with serving customers regardless of their usage or demand characteristics. Customer costs include the expenses and capital costs related to meters, regulators, and services and expenses related to meter reading and billing. The customer costs were allocated to service classifications on the bases of the number of meters, services and customers.

The allocation of costs to service classifications and the bases for the allocations are presented in Part II, Cost of Service by Service Classification.

RESULTS OF STUDY

The data summarized in Schedule A, "Comparison of Cost of Service with Revenues Under Present and Proposed Rates by Service Classification for the Twelve Months Ended September 30, 2017," constitute the principal results of the allocation study. Schedules B through F in Part II of the report present the details of the allocation of costs of service, including the return based on the allocated measure of value, by service classification as well as the bases for the allocation factors.

Schedule G presents the development of customer costs per bill by service classification. Schedule H presents a cost analysis of the LFD and XD Service demand charges.

COMPARISON OF COST OF SERVICE WITH REVENUES UNDER PRESENT AND PROPOSED RATES BY SERVICE CLASSIFICATION FOR THE TWELVE MONTHS ENDED SEPTEMBER 30, 2017 WITHOUT GAS COSTS

	Pro Form	na	Pr	o Forma Mar	gin Revenues,	Revenue Increase			
Service	Cost of Ser	vice	Under Present	Rates	Under Propose	d Rates		Percent	
Classification	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Increase	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Rate R	\$ 181,619,912	66.2%	\$ 108,668,733 *	50.2%	\$ 152,001,162	55.4%	\$ 43,332,429	39.9%	
Rate N	63,565,994	23.1%	55,100,277	25.5%	67,596,056	24.6%	12,495,779	22.7%	
Rate DS	6,861,940	2.5%	10,602,234	4.9%	11,583,714	4.2%	981,480	9.3%	
Rate LFD	10,692,747	3.9%	25,008,284	11.6%	26,762,521	9.7%	1,754,237	7.0%	
Rate XD Firm	3,421,615	1.2%	11,785,496	5.5%	11,785,496	4.3%	-	0.0%	
Interruptible	8,467,746	3.1%	4,900,000	2.3%	4,900,000	1.8%		0.0%	
Total	\$ 274,629,954	100.0%	\$ 216,065,024	100.0%	\$ 274,628,950	100.0%	\$ 58,563,925	27.1%	
Other Operating Revenues	4 480 000		4,480,000		4 480 000		0		
Other Operating Revenues	4,480,000		4,400,000		4,480,000		0		
Total	\$279,109,954		\$220,545,024		\$279,108,950		\$58,563,925	26.6%	

^{*} Includes GL.

PART II. COST OF SERVICE
BY SERVICE CLASSIFICATION

DEVELOPMENT OF RATE OF RETURN BY SERVICE CLASSIFICATION UNDER PRESENT RATES

	Cost of Service (2)	Rate R (3)	Rate N (4)	Rate DS (5)	Rate LFD (6)	Rate XD-Firm (7)	Interruptible (8)
Revenues From Tariff Sales and Transportation Other Revenues	\$ 216,065,024 4,480,001	\$ 108,668,733 2,849,807	\$ 55,100,277 1,310,476	\$ 10,602,234 235,676	\$ 25,008,284 39,628	\$ 11,785,496 12,388_	\$ 4,900,000 32,026
3. Total Operating Revenues	220,545,025	111,518,540	56,410,753	10,837,910	25,047,912	11,797,884	4,932,026
4. Less: Operating Expenses	164,808,952	112,105,589	36,352,198	3,693,136	5,995,168	2,003,327	4,659,534
5. Return and Income Taxes	55,736,073	(587,049)	20,058,555	7,144,774	19,052,744	9,794,557	272,492
6. Less: Interest Expense	20,044,000	12,611,685	5,053,092	603,324	837,839	256,563_	681,496
7. Taxable Income	35,692,073	(13,198,734)	15,005,463	6,541,450	18,214,905	9,537,994	(409,004)
8. Less: Income Taxes	13,962,000	(5,161,751)	5,869,625	2,559,235	7,124,809	3,730,646	(160,563)
9. Net Return (Ln 5 - Ln 8)	41,774,073	4,574,702	14,188,930	4,585,539	11,927,935	6,063,911	433,055
10. Original Cost Measure of Value (Factor 15.)	923,709,059	581,312,395	232,852,117	27,795,706	38,595,796	11,791,007	31,362,038
11. Rate of Return, Percent	4.52%	0.79%	6.09%	16.50%	30.90%	51.43%	1.38%
12. Relative Rate of Return	1.00	0.17	1.35	3.65	6.83	11.37	0.31

DEVELOPMENT OF RATE OF RETURN BY SERVICE CLASSIFICATION UNDER PROPOSED RATES

	Cost of						
lter <u>n</u>	Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD-Firm	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Revenues From Tariff Sales							
and Transportation	274,628,950	\$ 152,001,162	\$ 67,596,056	\$ 11,583,714	\$ 26,762,521	\$ 11,785,496	\$ 4,900,000
2. Other Revenues	4,480,001	2,845,252	1,313,241	236,509	40,123	12,355	32,521
3. Total Operating Revenues	279,108,951	154,846,414	68,909,297	11,820,223	26,802,644	11,797,851	4,932,521
4. Less: Operating Expenses	165,785,954	113,150,370	36,321,587	3,687,396	5,984,595	1,994,755	4,647,251
5. Return and Income Taxes	113,322,997	41,696,044	32,587,710	8,132,827	20,818,049	9,803,096	285,270
6. Less: Interest Expense	20,044,000	12,613,689	5,051,088	603,324	837,839	256,563	681,496
7. Taxable Income	93,278,997	29,082,355	27,536,622	7,529,503	19,980,210	9,546,533	(396,226)
8. Less: Income Taxes	37,857,000	11,803,813	11,175,386	3,055,060	8,108,969	3,872,771	(158,999)
9. Net Return (Ln 5 - Ln 8)	75,465,997	29,892,231	21,412,324	5,077,767	12,709,080	5,930,325	444,269
10. Original Cost Measure of Value (Factor 15.)	923,709,064	581,399,088	232,770,455	27,780,388	38,606,047	11,780,795	31,372,291
11. Rate of Return, Percent	8.17%	5.14%	9.20%	18.28%	32.92%	50.34%	1.42%
12. Relative Rate of Return	1.00	0.63	1.13	2.24	4.03	6.16	0.17

SUMMARY OF COST OF SERVICE BY SERVICE CLASSIFICATION

Cost Function	Cost of Service (Schedule E)	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Volumetric Costs							
Rate R	\$ 60,943,699	\$ 60,943,699					
Rate N	35,368,225	4 00,010,000	\$ 35,368,225				
Rate DS	5,938,246		4 00,000,220	\$ 5,938,246			
Rate LFD	8,681,850			4 0,000,210	\$ 8,681,850		
Rate XD Firm	3,244,864				7 5,55.,555	\$ 3,244,864	
Rate IS/IL	7,938,217					, , <u>,</u> , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$ 7,938,217
Total Volumetric Costs	122,115,101	60,943,699	35,368,225	5,938,246	8,681,850	3,244,864	7,938,217
Customer Costs							
Rate R	\$ 120,676,213	\$ 120,676,213					
Rate N	28,197,769	,	\$28,197,769				
Rate DS	923,694			\$ 923,694			
Rate LFD	2,010,897				\$ 2,010,897		
Rate XD Firm	176,751					\$ 176,751	
Rate IS/IL	529,529					•	\$ 529,529
Total Customer Costs	152,514,853	120,676,213	28,197,769	923,694	2,010,897	176,751	529,529
Total Excluding Gas Costs	\$ 274,629,954	\$ 181,619,912	\$ 63,565,994	\$ 6,861,940	\$ 10,692,747	\$ 3,421,615	\$ 8,467,746

NATURAL GAS PRODUCTION EXPENSES	
NATURAL GAS PROPUCTION EXPENSES	nterruptible
NATURAL GAS PRODUCTION EXPENSES Manufactured Gas Production Expenses	(15)
Manufactured Gas Production Expenses 1	
Total Content Conten	
Total Content Conten	
725-736 Total Gas Rels Expenses 1 0 0 100 50.259 17.741 100 Gas Rew Materials Expenses 1 68,000 50.259 17.741 100 Gas Rew Materials Expenses 1 68,000 50.259 17.741 100 Gas Rew Materials Expenses 1 68,000 50.259 17.741 100 Gas Gathering Conduction & Gathering Conduction & Gathering Conduction & Gathering Maintenance Exps 1 100 Gas Gas Gathering Maintenance Exps 1 10 Gas Gathering Maintenance Exps 1 10 Gathering Mainte	-
Total Operation Total Oper	•
Total Operation	
Production and Gathering Froduction & Gathering Operation Exps. 1	
750 - 760	=
Total Productor & Gathering Maintenance Exps 1	
770 - 783	-
Total Production Expenses Total Other Gas Supply Expenses Total Other Gas Supply Expenses Total Other Gas Supply Expenses Total Other Gas Production Expenses Total Natural Gas Production Expenses	
Total Production Expenses Other Gas Supply Expenses Section 2016 Section	_
800 - 803 Natural Gas Transmission Line Purchases 1 804 Natural Gas City Gate Purchases 1 905 Other Gas Supply Expenses 1 906 Total Other Gas Supply Expenses 9 907 Total Natural Gas Production Expenses 9 908 Natural Gas Production Expenses 9 909 Natural Gas City Gate Purchases 9 909 Natural Gas Ci	
800 - 803 Natural Gas Transmission Line Purchases 1 804 Natural Gas City Gate Purchases 1 905 Other Gas Supply Expenses 1 906 Total Other Gas Supply Expenses 9 907 Total Natural Gas Production Expenses 9 908 Natural Gas Production Expenses 9 909 Natural Gas City Gate Purchases 9 909 Natural Gas Ci	
Naturel Gas City Gate Purchases 1	
813 Other Gas Supply Expenses 1	
Total Natural Gas Production Expenses 68,000 50,259 17,741	
OTHER STORAGE EXPENSE	
OTHER STORAGE EXPENSE	
OTHER STORAGE EXPENSE	
840 Operating Supervision and Engineering 4 · · · · · · · · · · · · · · · · · ·	÷
841 Operation Labor and Expenses 4	
342 - 842.3 Other Operations Expense 4	
Total Natural Gas Storaga Expense	
TRANSMISSION EXPENSE	
INDIANSMISSION EXPENSES 4	_
861 - 867 Total Transmission Maintenance Expenses 4	
Total Transmission Expense	
Total transmission Expense	•
DISTRIBUTION EXPENSES	
<u>Operation</u>	
870 Supervision And Engineering 10 2,402,000 471,993 292,083 50,202 74,462 43,476 88,153 873,367 431,399 15,373 50,682 4,564 871 Distribution Load Displicting 4s 554,000 207,362 128,196 20,886 36,121 63,876 97,559	6,245
871 Distribution Load Dispatching 4a 554,000 207,362 128,196 20,886 36,121 63,876 97,559	•
873 Compressor Station Fuel and Power 2 1,000 186 118 27 119 142 411	_
874 Mains And Services Expenses	
Mains Small 5 2,077,287 1,103,455 683,012 120,275 56,294 - 114,251	•
	22,562
Services 05 3,247,000 159,078 98,345 16,023 27,710 49,003 74,843 425,000 159,078 98,345 16,023 27,710 49,003 74,843	22,302
876 M & R Station Expenses - Industrial 6B 417,000 97,203 294,027 25,103	667
877 M & R Station Expenses - City Gate Station 4a 348,000 130,256 80,527 13,120 22,690 40,124 61,283	
	10,383
879 Customer Installations Expenses 6 1,281,000 - 442,329 809,206 22,674 - 45,739 92,741 918,817 453,849 16,173 53,320 4,601	6,789 6,570
861 Rents 10 89,000 13,559 8,390 1,442 2,139 1,249 2,532 25,086 12,392 442 1,456 131	179
	53,395

						Volumetri	c Costs					Customer	Costs		
	Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rete R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Maintenance														
885	Supervision - Engineering and Labor	11	786,000	320,138	198,072	34,270	49,754	18,707	45,745	77,342	30,811	1,179	8,646	786	550
886	Structures & Improvements	18	3,000	1,453	899	156	227	74	192	-	-	•	-	-	-
887	Mains - Small	5	5,287,245	2,808,585	1,738,446	306,131	143,284		290,798	•		•	-	-	•
	Mains - Large	17 4	8,067,756	3,688,409	2,269,460	388,866	858,409	321,903	560,709						
888 889	Maintenance of Compressor Station Equipment M & R Equip - General	4a	167,000	62,508	38,644	6,296	10,888	19,255	29,409						
890	M & R Equip - General M & R Equip - Industrial	69	242,000	-		-,200	,,,,,,,,	.0,200			56,410		170,634	14,568	387
891	M & R Equip - City Gate	4a	436,000	163,195	100,890	16,437	28,427	50,271	76,780			-		-	
892	Services	6C	1,640,000	-	-	-			-	1,409,744	198,932	12,956	10,168	1,148	7,052
893	Meters & House Regulators	6	617,000	•		· ·				213,050	389,759	10,921	-	•	3,270
694	Other Expenses	11	102,000	41,545	25,704	4,447	6,457	2,428	5,936	10,037	3,998	153	1,122	102	71
895	Construction and Maintenance	11 _	(176,000)	(71,885) 6,994,148	(44,352)	(7,674) 748,929	1,086,305	<u>(4,189)</u> 408,449	(10,243) 999,326	<u>(17,318)</u> 1,692,855	(6,899) 673,011	<u>(264)</u> 24,945	(1.936) 188,634	16,428	11 207
	Total Maintenance	-	17,172,001	0,334,140	4,327,763	740,929	1,080,305	400,449	999,320	1,032,033	6/3,011		100,034	10,428	11,201
	Total Distribution Expenses	_	37,649,001	11,017,862	6,817,355	1,176,498	1,721,434	778,530	1,751,394	9,139,220	4,351,023	155,732	620,650	54,700	64,602
COSTOM	ER ACCOUNTING EXPENSES														
901	<u>Operation</u> Supervision	7	425,000			-				381,395	42,075	638	510	43	340
902	Meter Reading Expenses	7	1,001,000							898,297	99,099	1,502	1,201	100	801
903	Customer Records & Coll Expanses	7	13,681,000	•	-	•	-		•	12,277,329	1,354,419	20,522	16,417	1,368	10,945
904	Uncollectible Accounts	19	5,611,000	1,781,484	134,987	-	-	•	•	3,372,781	217,384	33,666	44,327		26,372
905	Miscellaneous Cust Accts Expenses	7 _	358,000	1,781,484	134,987		<u>.</u>			321,269 17,251,071	35,442 1,748,419	537 56,865	430 62,885	1,547	286 38,744
	Total Customer Accounting Expenses	-	21,076,000	1,701,404	134,907	-	<u>-</u>	<u>-</u>	-	17,231,071	1,740,419	30,863	62,000	1,347	36,744
- CUSTOM	ER SERVICE AND INFORMATION EXPENSES														
_	Operation														
907	Supervision	7	164,000	•	-	-			•	147,173	16,236	246	197	16	131
908	Customer Assistance Expenses	9	1,308,000	•	•	-		-	-	1,308,000					-
909	Informational and Instructional Advertising	- 7	721,000	•	•	-	•	•	•	647,025 104,098	71,379 11,484	1,092 174	865 139	72	577 93
910	Miscellaneous Customer Service & Informational Total Customer Service & Info Expenses	ы , —	116,000 2,309,000	-						2,206,296	99,099	1,502	1 201	100	801
	OTAL CUSTOMER SERVICE & INTO Expenses	_	2,353,500												
SALES E	XPENSES														
	Operation	a													
911 912	Supervision Demonstrating and Selling Expenses	8	3,635,000							3,274,045	360 956		:		
913	Advertising Expenses	8	111,000			-				99,978	11,022	-			-
916	Miscellaneous	8	104,000							93,673	10,327				
	Total Sales Expenses	_	3,850,000		<u> </u>					3,467,896	382,305				<u> </u>
ADMINIS	TRATIVE AND GENERAL EXPENSES														
920	Operation Administrative & General Salaries	12	9,958,000	1,964,713	1,067,498	180,240	263,887	119,496	268,866	4,920,248	1.009.741	32,861	105,555	8,962	15,933
921	Office Supplies and Expenses	12	9,639,000	1,901,775	1,033,301	174.468	255,434	115,668	260,253	4,762,630	977.395	31,809	102,173	8,675	15,422
923	Outside Services Employed - Other	12	9,243,000	1,823,644	990,850	167,298	244,940	110,916	249,561	4,568,986	937,240	30,502	97,976	8,319	14,789
924	Property Damage Insurance	12	195,000	38,474	20,904	3,530	5,166	2,340	5,265	96,350	19,773	544	2,067	176	312
925	Injuries and Damages	12	7,041,000	1,389,189	754,795	127,442	186,587	84,492	190,107	3,478,958	713,957	23,235	74,635	5,337	11,266
926	Employee Pensions and Benefits	13	11,272,000	2,048,122	1,216,249	207,405	304,344	152,172	328,015	5,332,783	1,472,123	45,088	135,264	11,272	19,162
928	Regulatory Commission Expenses	16 12	628,000 678,000	137,595 133,769	79,819 72,682	13,378 12,272	19,594 17,987	7,348 8,136	17,898 18,306	277,576 335,000	66,128 68,749	2,575 2,237	4,522 7,187	377 610	1,193 1,085
930 930	Miscellaneous General Expertses Miscellaneous Company Charges	12	1,517,000	299,304	182,622	27,458	40,201	18,204	40,959	749,550	153,824	5,006	16,080	1,365	2,427
930	Miscellaneous Company Charges Other	12	277.000	54 652	29,694	5,014	7,341	3,324	7,479	136,866	28 088	914	2,938	249	443
	Total Operation		50,448,000	9,791,237	5,428,414	918,501	1,345,483	622,096	1,386,709	24,656,927	5,447,018	174,871	548,395	46,342	82,032
	-														

Ref. Cost of Ref. Service Rate R Rate N Rate DS Rate LFD Rate XD Firm Interruptible Rate R Rate R Rate R	7 40 16 4,776 14 179,647	4,736 40 4,776 179,647	Rate LFD (13) 15,211 127 15,338 563,733 1,248,469	1,292 11 1,303 47,645 103,992	2.296 19 2.315 84,347 188,494
Maintenance Maintenance of General Plant 12 1,435,000 283,126 153,832 25,974 38,028 17,220 38,745 709,034 145,1935 1,286 1,286 217 319 1,44 324 5,929 1,286 1,286 217 319 1,44 324 5,929 1,286 1,286 217 319 1,44 324 5,929 1,286 1,286 217 319 1,44 324 5,929 1,286 1,286 217 319 1,44 324 5,929 1,286 1,286 217 319 1,44 324 5,929 1,286 1,286 1,286 217 319 1,44 324 5,929 1,286 1,	(12) 9 4,736 7 40 6 4,776 14 179,647	4,736 40 4,776 179,647	15,211 127 15,338 563,733	1,292 11 1,303 47,645	2,296 19 2,315 64,347
932 Maintenance of General Plant 12 1,435,000 283,126 153,832 25,974 38,028 17,220 38,745 709,034 145,1 935 Maintenance of General Plant 12 12,000 2,388 1,286 217 3.18 144 3.24 5,929 1,2 12,000 285,494 155,116 26,191 38,346 17,364 39,069 714,963 146,1 12 1447,000 285,494 155,116 26,191 38,346 17,364 39,069 714,963 146,1 12 12 12,000 10,076,731 5,583,532 944,692 1,383,609 639,460 1,425,778 25,371,890 5,593,7 10,000 10,0	7 40 16 4,776 14 179,647	40 4,776 179,647	127 15,338 563,733	11 1,303 47,645	2,315 84,347
935 Maintenance of General Plant 12 12,000 2,388 1,286 217 318 144 324 5,929 1.7 Total Maintenance 11,447,000 285,494 155,116 26,191 38,346 17,364 39,069 714,963 146, 155,116 26,191 38,346 17,364 39,069 714,963 146, 17,364 39,069 714,9	7 40 16 4,776 14 179,647	40 4,776 179,647	127 15,338 563,733	11 1,303 47,645	2,315 84,347
Total Maintenance 1,447,000 285,494 155,116 26,191 38,346 17,364 39,069 714,963 146,17 Total Administrative & General Expenses 51,895,000 10,076,731 5,583,532 944,692 1,383,809 639,460 1,425,778 25,371,890 5,593,17 Total Operation and Maintenance Expenses 116,847,001 22,926,336 12,553,615 2,121,190 3,105,243 1,417,990 3,177,172 57,436,173 12,174,175	6 4,776 14 179,647	4,776 179,647	15,338 563,733	1,303 47,645	2,315 84,347
Total Administrative & General Expenses 51,895,000 10,076,731 5,583,532 944,692 1,383,809 639,460 1,425,778 25,371,890 5,593, Total Operation and Maintenance Expenses 116,847,001 22,926,336 12,553,615 2,121,190 3,105,243 1,417,990 3,177,172 57,436,173 12,174, DEPRECIATION AND AMORTIZATION EXPENSE DISTRIBUTION PLANT 305 Manufactured Gds Plant Site Remediation 1 207,811 153,593 54,218	179,647	179,647	563,733	47,645	84,347
Total Operation and Maintenance Expenses 116,847,001 22,926,336 12,553,615 2,121,190 3,105,243 1,417,990 3,177,172 57,436,173 12,174,175 DEPRECIATION AND AMORTIZATION EXPENSE DISTRIBUTION PLANT 305 Mainufactured Gds Plant Site Remediation 1 207,811 153,593 54,218 1 375 Structures And Improvements 18 27,612 13,370 8,273 1,436 2,093 676 1,764 - 376 Mains - Small 5 5,007,323 2,659,890 1,646,408 289,924 135,698 - 275,403 - 375 400 -					
DEPRECIATION AND AMORTIZATION EXPENSE DISTRIBUTION PLANT 305 Manufactured Gas Plant Site Remediation 1 207,811 153,593 54,218		393,746	1,248,469	103,992	188,494
DISTRIBUTION PLANT 305 Manufactured Gas Plant Site Remediation 1 207,811 153,593 54,218 375 Structures And Improvements 18 27,612 13,370 8,273 1,438 2,093 676 1,764 376 Mains - Small 5 5,007,323 2,859,890 1,646,408 289,924 135,698 - 275,403		: :	- - -	<u>.</u>	:
305 Manufactured Gas Plant Site Remediation 1 207.811 153.593 54.218 375 Structures And Improvements 18 27.612 13.370 8.273 1.436 2.093 676 1.764 - 378 Mains - Small 5 5.007.323 2.659.890 1.646.408 289.924 135.698 - 275.403 -		:	- -		-
305 Manufactured Gas Plant Site Remediation 1 207.811 153.593 54,218 375 Structures And Improvements 18 27,612 13,370 8,273 1,436 2,093 676 1,764 - 378 Mains - Small 5 5,007,323 2,659,890 1,646,408 289,924 136,698 - 275,403 -		•	-	:	-
375 Structures And Improvements 18 27,612 13,370 8,273 1,438 2,093 676 1,764 - 378 Mains - Small 5 5,007,323 2,659,890 1,646,408 289,924 136,698 - 275,403 -			-		_
4 Telegraph 0.001 0.001 770 0.001 0.00					
Maine Laces 4 / 640 626 3.023 949 2.241./60 364 323 646.109 - 542 464				•	*
378 Measuring & Regulating Equipment - General 18 1.128,978 548.651 338,242 58,707 85,577 27,660 72.142 - 378 Measuring & Regulating Equipment - SCADA 18 107,140 51,677 32,099 5,571 8,121 2,525 6.846 -					•
379 Measuring & Regulating Equipment - City Gate 18 88,508 42,858 28,517 4,602 6,709 2,168 5,556 -		-	_		-
380 Services 6C 18.440.532 15.651.481 2.2361	7 145,680	145,680	114,331	12,908	79,294
381 Meters 6 1,553,801 536,527 981,		27,502			8,235
381.2 Electronic Meters 6 445,841 - 153,949 281,6			-	-	2,363
382 Meter Installations 6 1,578,782 - 545,152 997.3		27,944	-	-	8,368
383 House Regulators 6 404,313 139,609 255.4			-	-	2,143
384 House Regulator Installations 6 288,996 92.884 169.5		4,761			1,426
N 385 Industrial Measuring & Regulating Equipment 6B 128,680 - 29,9			90,732	7,747	206
386 Other Property on Customer Premises 6 23.414		414	-	i	124
387 Other Equipment 10 105,852 20,800 12,872 2,212 3,281 1,916 3,885 38,488 19,0		677	2.233	201	275
387.1 Other Equipment 10 4,539 892 552 95 141 82 167 1,651 8 Total Distribution Plant 37,473,107 7,113,878 4,360,941 746,870 1,089,729 336,471 917,362 17,367,826 4,987,1		222,054	207,392	20,865	102,446
GENERAL PLANT					
390 Structures And Improvements 12 1,124,899 221,943 120,589 20 361 29 810 13,499 30,372 555,813 114,0		3,712	11,924	1,012	1,800
391 Office Furniture And Equipment 12 109,370 21,579 11,724 1,980 2,898 1,312 2,953 54,040 11,0			1,159	98	175
392 Transportation Equipment 12 80,541 15,891 8,634 1,458 2,134 966 2,175 39,795 8,1			854	72	129
394 Tools Shop And Garage Equipment 12 501,958 99,036 53,810 9,085 13,302 6,023 13,553 248,017 50,6			5,321	452	803
398 Power Operated Equipment 12 8,536 1,684 915 155 226 102 230 4,218 8			90	8	14
397 Communication Equipment 12 40,154 7,921 4,305 727 1,064 482 1,084 19,840 4,0 398 Miscellanguis Fittipment 12 85,585 16,885 9,175 1,549 2,268 1,027 2,311 42,288 8,6			428	36	64
900 Wilder 1900 Cd. 1	8 282	262	907	77	137
399 Other Tangible Property 12	7 6,438	6,438	20,681	1,755	3,122
					
COMMON PLANT ALLOCATED @ 15.36%					
390 2 Structures and Improvements 12 2,114 417 227 38 56 25 57 1,045 2			22	2	3
391 Office Furniture and Equipment 12 14,784 2.917 1,585 268 392 177 399 7,305 1,4			157	13	24
VVE; 100 Dps/(dustricts)	42		6_		1
Total Common Plant 17,431 3,439 1,869 316 462 208 470 8,613 1,7	7 58	58	185	15	28
INFORMATION SERVICES (IS) ALLOCATED @ 48.83% 381 Office Furniture and Equipment 12 1,556,244 307,047 166,829 28,168 41,240 18,675 42,019 758,940 157.8	3 5,136	5.120	16,496	1,401	2,490
381 Office Furniture and Equipment 12 1,556,244 307,047 166,829 28,168 41,240 18,675 42,019 768,940 157,8 391.1 Office Furniture and Equip - New CIS Software 7 2,887,087			3,440	287	2,490
391.1 Omce Furniture and Equip - New CIS Soliware 7 2,007,007 Total Information Services 4,423,311 307,047 166,829 28,168 41,240 18,675 42,019 3,341,846 441,6			19,936	1,688	4,784
Less:					
Amount Charged to Cleaning Accounts 12 (637,000) (125,680) (68,286) (11,530) (16,881) (7,644) (17,199) (314,742) (64,5	2) (2,102°	(2,102)	(6,752)	(573)	(1,019)
390.1 Struct. & Imps: Reading Service Center @ 51,74% 12 (38,944) (7,884) (4,175) (705) (1,032) (467) (1,051) (19,242) (3,9	, ,-,,	(129)	(413)	(35)	(62)
Total Depreciation & Amortization Expense 43,188,948 7,675,939 4,666,330 798,434 1,165,220 370,654 994,279 21,348,312 5,559,9	6 235,756	235,756	241,029	23,715	109,299

						Volumetr	ic Costs					Customer	Costs		
	Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	. (5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
TAXES	OTHER THAN INCOME TAXES														
406.10	Capital Stock	15	-	*	-	•	•	•	-		•				
408 10		16	177,000	38,780	22,497	3,770	5,522	2,071	5,045	78,234	18,638	726	1,274	106	336
408.10		13	3,397,000	617,235	366,536	62,505	91,719	45,860	98,853	1,607,121	443,648	13,588	40,764	3,397	5,775
408.10		16	1,683,000	364,363	211,367	35,422	51,886	19,457	47,396	735,046	175,114	5,818	17,974	998	3,160
408.10		15	513,000	133,072	79,618	13,235	19,340	6,310	18,416	189,759	49,658	2,206	2,155	205	1,026
408.10		16 _													
	Total Taxes Other Than Income	-	5,750,000	1,153,450	680,018	114,932	158,467	73,698	167,710	2,610,160	687,058	23,338	56,167	4,706	10,297
	Total Operating Expenses	_	165,785,949	31,765,725	17,899,963	3,034,556	4,438,930	1,862,342	4,339,161	81,394,645	18,421,624	652,840	1,545,665	132,413	308,090
INCOM	E TAXES	15	37,857,000	9,820,107	5,875,406	976,711	1,427,209	465,641	1,211,424	14,003,304	3,664,558	162,785	158,999	15,143	75.714
OPERA	TING INCOME AVAILABLE FOR RETURN	15 _	75,487,000	19,576,140	11,712,478	1,947,049	2,845,108	928,244	2,414,944	27,915,243	7,305,206	324,508	316,961	30,187	150,934
TOTAL	COST OF SERVICE		279,109,949	51,151,972	35,487,847	5,958,316	8,711,245	3,256,227	7,965,529	123,313,192	29,391,388	1,140,133	2,021,625	177,743	534,738
		_													
Less: O	ther Revenues														
	Reconnection Charges	6C	517,000					•		444,413	62,712	4,084	3,205	362	2,223
	Rent From Gas Property	12	165,000	32,555	17,688	2,987	4,373	1,980	4,455	81.527	16,731	545	1,749	149	264
$\vec{\omega}$	Forfieted Discounts/Penalties	20	2,996,000	475 740	101,934	47.003	25 222		20.053	1,756,555	1,029,725	238,522			1,198
~	Other Miscellaneous Revenues Subtotal	16 -	802,000 4,480,000	<u>175,718</u> 208,273	119,622	20,070	25,022 29,395	9,383	22,857	<u>354,484</u> 2,636,979	84,451 1,193,619	3,288 216,439	5,774 10,728	<u>481</u> 992	1,524 5,209
	200/ora		4,400,000	200,213	110,022	20,070	23,555	(1,203	27,312	2,030,913	1, 133,019	210,439	10,728	237	5,209
TOTAL TARII	COST OF SERVICE RELATED TO FF SALES AND TRANSPORTATION	_	\$ 274,629,949	\$ 60,943,699	\$ 35 <u>,368,225</u>	\$ 5,938,246	\$ 8,681,850	\$ 3,244,864	\$ 7,938,217	\$ 120,676,213	\$ 28,197,769	\$ 923,694	\$ 2,010,897	\$ <u>176,751</u>	\$ 529,529

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 1. ALLOCATION OF COSTS WHICH VARY DIRECTLY WITH PGC SALES.

Factors are based on the pro forma average daily PGC sales volumes for each service classification.

	Pro Forma	
	Average	
	Daily PGC	
Service	Volumes	Allocation
Classification	(Mcf)	Factor
(1)	(2)	(3)
Volumetric Costs	•	
Rate R	52,240	0.7391
Rate N	18,444	0.2609
Rate DS	-	-
Rate LFD	-	-
Rate XD	-	-
Interruptible		
Total	70,684	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTORS 2. ALLOCATION OF COMPRESSOR STATION FUEL.

Factors are based on the pro forma average daily throughput volumes for each service classification.

	Pro Forma	
	Average Daily	
	Throughput	
Service	Volumes	Allocation
Classification	(Mcf)	Factor 2
(1)	(2)	(3)
Volumetric Costs		
Rate R	62,313	0.1859
Rate N	38,743	0.1155
Rate DS	8,875	0.0265
Rate LFD	39,903	0.1190
Rate XD Firm	47,722	0.1423
Interruptible	137,744	0.4108
Total	335,300	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 3. CALCULATION OF MAXIMUM DAY EXTRA DEMAND FACTORS.

Factors are based on the maximum day extra demand throughput for each classification.

Service Classification	Pro Forma Average Daily Throughput Volumes (Mcf)	Peak Day Capacity (Mcf)	Extra Capacity (Mcf)	Allocation Factor 3	Allocation Factor 3A
(1)	(2)	(3)	(4)=(3)-(2)	(5)	(5)
Volumetric Costs					
Rate R	62,313	363,772	301,459	0.5157	0.5698
Rate N	38,743	224,930	186,187	0.3185	0.3519
Rate DS	8,875	35,791	26,916	0.0460	0.0509
Rate LFD	39,903_	54,422	14,519	0.0248	0.0274
Subtotal	149,834	678,915	529,081	0.9050	1.0000
Rate XD Firm	47,722	103,283	55,561	0.0950	
Total	197,556	782,198	584,642	1.0000	1.0000

FACTOR 3B. CALCULATION OF MAXIMUM DAY EXTRA DEMAND FACTORS FOR SMALL MAINS ALLOCATION.

Factors are based on the maximum day extra demand throughput for each classification, excluding XD and Interruptible classifications.

	Pro Forma Average Daily			
	Throughput	Peak Day	Extra	
Service	Volumes	Capacity	Capacity	Allocation
Classification	(Mcf)	(Mcf)	(Mcf)	Factor 3B
(1)	(2)	(3)	(4)=(3)-(2)	(5)
Volumetric Costs				
Rate R	62,313	363,772	301,459	0.5828
Rate N	38,743	224,930	186,187	0.3599
Rate DS	8,875	35,791	26,916	0.0520
Rate LFD	7,582	10,340	2,758	0.0053
Total	117,513	634,833	517,320	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 4. ALLOCATION OF COSTS ASSOCIATED WITH LARGE DISTRIBUYION MAINS.

Factors are based on the weighting of the factors derived from average daily throughput volumes volumes and from maximum day extra capacity demand for each service classification, as follows:

		Average		Maxim	um Day	
		Daily Through	iput	Extra Demand		
Service		Allocation	Weighted	Allocation	Weighted	Allocation
Classification	Interru <u>pt</u> ible	Factor	Factor*	Factor 3A	Factor	Factor 4
(1)	(2)	(3)	(4)=(3)x	(5)	(6)=(5)x	(7)=(4)+(6)
			0.4287		0.5713	
Volumetric Costs						
Rate R	62,313	0.3470	0.1488	0.5698	0.3255	0.4743
Rate N	38,743	0.2157	0.0924	0.3519	0.2010	0.2934
Rate DS	8,875	0.0494	0.0212	0.0509	0.0291	0.0503
Rate LFD	39,903	0.2222	0.0953	0.0274	0.0157	0.1110
Rate XD Firm		-	-	-	-	-
Interruptible	29,762	0.1657	0.0710			0.0710
Total	179,596	1.0000	0.4287	1.0000	0.5713	1.0000

^{*} The weighting of the factors is based on the percentage of average daily throughput of 335,300 mcf divided by peak day demand of 782,198 mcf. (335,300 / 782,198 = 42.87%)

FACTOR 4A. ALLOCATION OF COSTS ASSOCIATED WITH LOAD DISPATCHING AND M&R STATION EQUIPMENT.

Factors are based on the weighting of the factors derived from average daily throughput volumes and from maximum day extra capacity demand for each service classification, as follows:

		Ave	егаде	Maxim	um Day	
	_	Daily T	hroughput	Extra D	Demand	
Service		Allocation	Weighted	Allocation	Weighted	Allocation
Classification	Throughput	Factor 2	Factor	Factor 3	<u>Factor</u>	Factor
(1)	(2)	(3)	(4)=(3)x	(5)	(6)=(5)x	(7)=(4)+(6)
			0.4287		0.5713	
<u>Volumetric</u>						
Rate R	62,313	0.1859	0.0798	0.5157	0.2945	0.3743
Rate N	38,743	0.1155	0.0494	0.3185	0.1820	0.2314
Rate DS	8,875	0.0265	0.0114	0.0460	0.0263	0.0377
Rate LFD	39,903	0.1190	0.0510	0.0248	0.0142	0.0652
Rate XD-Firm	47,722	0.1423	0.0610	0.0950	0.0543	0.1153
Interruptible	137,744	0.4108	0.1761			0.1761
Total	335,300	1.0000	0.4287	1.0000	0.5713	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 5. ALLOCATION OF COSTS ASSOCIATED WITH SMALL DISTRIBUTION MAINS.

Factors are based on the weighting of the factors derived from average daily throughput volumes and from maximum day extra capacity demand for each service classification, as follows:

	Average Daily Throughput		Maximum Day Extra Demand			
Service Classification	Volumes (Mcf)	Allocation Factor	Weighted Factor	Allocation Factor 3B	Weighted Factor	Allocation Factor 5
(1)	(2)	(3)	(4)=(3)x 0.4287	(5)	(6)=(5)x 0.5713	(7)
Volumetric Costs						
Rate R	62,313	0.4624	0.1982	0.5828	0.3330	0.5312
Rate N	38,743	0.2874	0.1232	0.3599	0.2056	0.3288
Rate DS	8,875	0.0658	0.0282	0.0520	0.0297	0.0579
Rate LFD	7,582	0.0562	0.0241	0.0053	0.0030	0.0271
Rate XD - Firm		-	-	-	-	• -
Interruptible (IS)	17,284	0.1282	0.0550			0.0550
Total	134,797	1.0000	0.4287	1.0000	0.5713	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 6. ALLOCATION OF COSTS ASSOCIATED WITH ACCOUNT 381, METERS.

Factors are based on the cost of meters by class included in Account 381, Meters.

Service	Cost of	Allocation
Classification	Meters	Factor
(1)	(2)	(3)
Customer Costs		
Rate R	\$ 15,645,801	0.3453
Rate N	28,616,967	0.6317
Rate DS	800,115	0.0177
Rate LFD	-	-
Interruptible	240,109	0.0053
Total	\$ 45,302,992	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 6B. ALLOCATION OF COSTS ASSOCIATED WITH INDUSTRIAL MEASURING AND REGULATING EQUIPMENT, ACCOUNT 385.

Factors are based on the cost of M&R equipment by class included in Account 385, Industrial Measuring and Regulating Equipment.

Service Classification	Cost of M&R Equipment	Allocation Factor
(1)	(2)	(3)
Customer Costs		
Rate N	\$ 1,223,583	0.2331
Rate LFD	3,702,212	0.7051
Rate XD - Firm	316,174	0.0602
Interruptible	<u>8,475</u>	0.0016_
Total	\$ 5,250,444	1.0000

FACTOR 6C. ALLOCATION OF COSTS ASSOCIATED WITH SERVICES.

Factors are based on the cost of services by class included in Account 380, Service Lines.

Service Classification (1)	Cost of Services (2)	Allocation Factor (3)
()	(-/	(0)
Customer Costs		
Rate R	\$ 436,652,618	0.8596
Rate N	61,565,658	0.1213
Rate DS	3,993,767	0.0079
Rate LFD	3,130,250	0.0062
Rate XD - Firm	372,098	0.0007
Interruptible	<u>2,172,285</u>	0.0043
Total	\$ 507,886,676	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 7. ALLOCATION OF COSTS ASSOCIATED WITH CUSTOMER ACCOUNTING. AND METER READING

Factors are based on the number of customers for each classification, as follows.

Service	Number of	Allocation
Classification	Customers	Factor 7
(1)	(2)	(3)
Customer Costs		
Rate R	348,120	0.8974
Rate N	38,394	0.0990
Rate DS	592	0.0015
Rate LFD	464	0.0012
Rate XD Firm	27	0.0001
Interruptible	322	0.0008
Total	<u>387,919</u>	1.0000

FACTOR 8. ALLOCATION OF COSTS ASSOCIATED WITH SALES EXPENSES.

Factors are based on the number of Rate R and Rate N customers.

Service Classification	Number of Customers	Allocation Factor
(1)	(2)	(3)
Customer Costs		
Rate R	348,120	0.9007
Rate N	38,394	0.0993
Total	386,514	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 9 (DA). ALLOCATION OF CUSTOMER ASSISTANCE EXPENSES.

These costs are directly assigned to the Residential Classification.

Service	Allocation
Classification	Factor
(1)	(3)
<u>Customer Costs</u>	
Rate R	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 10. ALLOCATION OF DISTRIBUTION OPERATION OTHER EXPENSES AND RENT.

Factors are based on distribution operation expenses other than those being allocated.

Service	Operation	Allocation
Classification	Expenses	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 3,041,606	0.1965
Rate N	1,881,836	0.1216
Rate DS	323,111	0.0209
Rate LFD	480,191	0.0310
Rate XD	279,617	0.0181
Interruptible	568,642	0.0367
Customer Costs		
Rate R	5,629,093	0.3636
Rate N	2,780,372	0.1796
Rate DS	98,799	0.0064
Rate LFD	326,558	0.0211
Rate XD	28,776	0.0019
Interruptible	40,401	0.0026
Total	\$ 15,479,002	1.0000

FACTOR 11. ALLOCATION OF DISTRIBUTION MAINTENANCE OTHER EXPENSES.

Factors are based on distribution maintenance expenses other than those being allocated.

Service Classification	Maintenance Expenses	Allocation Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 6,702,697	0.4073
Rate N	4,147,440	0.2520
Rate DS	717,730	0.0436
Rate LFD	1,041,008	0.0633
Rate XD	391,429	0.0238
Interruptible	957,696	0.0582
Customer Costs		
Rate R	1,622,794	0.0984
Rate N	645,101	0.0392
Rate DS	23,877	0.0015
Rate LFD	180,802	0.0110
Rate XD	15,716	0.0010
Interruptible	10,709	0.0007
Total	\$ 16,456,999	1.0000
· Otal	<u> </u>	1.000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 12. ALLOCATION OF ADMINISTRATIVE AND GENERAL EXPENSES.

Factors are based on the allocation of operation and maintenance expenses.

•	Operation &	
Service	Maintenance	Allocation
Classification	Expenses	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 12,799,346	0.1973
Rate N	6,952,342	0.1072
Rate DS	1,176,498	0.0181
Rate LFD	1,721,434	0.0265
Rate XD	778,530	0.0120
Interruptible	1,751,394	0.0270
Customer Costs		
Rate R	32,064,283	0.4941
Rate N	6,580,846	0.1014
Rate DS	214,099	0.0033
Rate LFD	684,736	0.0106
Rate XD	56,347	0.0009
Interruptible	104,147	0.0016
Total	\$ 64,884,002	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 13. ALLOCATION OF LABOR RELATED TAXES AND BENEFITS.

Factors are based on the allocation of total operation and maintenance direct labor expense to service classifications as shown on the following page.

Service	Total Labor	Allocation
Classification	Expense	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 6,313,030	0.1817
Rate N	3,747,088	0.1079
Rate DS	638,573	0.0184
Rate LFD	939,499	0.0270
Rate XD	468,679	0.0135
Interruptible	1,011,849	0.0291
Customer Costs		
Rate R	16,437,559	0.4731
Rate N	4,535,978	0.1306
Rate DS	138,727	0.0040
Rate LFD	417,239	0.0120
Rate XD	36,457	0.0010
Interruptible	58,325_	0.0017
Total	\$ 34,743,003	1.0000

FACTOR 14. ALLOCATION OF ORGANIZATION, FRANCHISES AND CONSENTS, MISCELLANEOUS INTANGIBLE PLANT AND OTHER RATE BASE ELEMENTS.

Factors are based on the allocation of the original cost less depreciation excluding the items being allocated, as follows:

	Original	
Service	Cost Less	Allocation
Classification	Depreciation	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 319,134,206	0.2594
Rate N	190,874,528	0.1552
Rate DS	31,732,605	0.0258
Rate LFD	46,304,412	0.0376
Rate XD	15,165,501	0.0123
Interruptible	39,300,883	0.0319
<u>Customer Costs</u>		
Rate R	455,139,051	0.3701
Rate N	119,117,959	0.0968
Rate DS	5,281,401	0.0043
Rate LFD	5,124,401	0.0042
Rate XD	511,205	0.0004
Interruptible	2,470,732_	0.0020
Total	\$ 1,230,156,884	1.0000

				Volumetric Costs				Customer Costs Customer Costs							
	Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
DIRECT	ABOR EXPENSE														
750-760	Total Production & Gathering Operation Expense	ı s 1			-				-			-	-	-	
761 - 769	Total Gas Raw Materials Expenses	1	68,000	50,259	17,741		-			-			-		
850 - 860	Total Transmission Operation Expenses	4		-	•	•	•	-	-	-	-	-	-	-	
861 - 867	Total Transmission Maintenance Expenses	4			-					-	-	-			_
870	Operation Supervision and Engineering	10	2,093,000	411.275	254,509	43,744	64,883	37,883	76,813	761,015	375,903	13,395	44,162	3,977	5 442
B71	Distribution Load Dispatching	4a	436,000	163,195	100,890	16,437	28,427	50,271	76,780				-		-,
874	Mains And Services Expenses	_	•				-		,						
4.4	Mains - Small	5	768,244	408,091	252,599	44,481	20,819		42,253		_	_			
	Mains - Cines	17	1,172,256	533,025	329,756	56,503	124,728	46,773	81,472						
	Services	6C	1,940,500		,		-	,	3.,.,2	1,668,054	235,383	15.330	12.031	1,358	8,344
875	M & R Station Expenses -General	48	233,000	87,212	53,916	8.784	15,192	26,865	41,031	7,000,004	200,000	10,000	12,051	1,555	0,544
876	Measuring and Regulating Station Expenses-Indus		225,000	07.212	-			,	**,001	_	52,448		158.648	13,545	360
	Measuring and Regulating Station Expenses-City		168,000	62,882	38,875	6.334	10.954	19,370	29,585		02,440		150,040	10,040	300
877		5 46	1.447.000	02,002	50,075	0,004	10,004	10,574	20,303	499.649	914.070	25.612	•	-	7.669
878	Meter And House Regulator Expenses	6	994,000	•	-	-	=	•	-	343,228	627.910	17.594	-	-	
879	Customer Installation Expenses	•		333,657	206,477	35,488	52,638	30,734					25 222	2 222	5,268
980	Other Expenses	10	1,698,000	333,657	206,477		52,638		62,317	617,393	304,961	10,867	35,828	3,226	4,415
861	Rent	10				-			1				_ :_		-
885	Supervision - Engineering and Labor	11	661,000	269,225	186,572	28,820	41,841	15,732	38,470	65,042	25,911	992	7,271	661	463
886	Structures & Improvements	18						-		•	-	-	•	•	•
867	Mains - Small	5	1,601,811	850,882	526,675	92,745	43,409		88,100	•	•	-		-	•
	Mains - Large	17	2,444,189	1,111,373	687,550	117,610	280,062	97,523	169,871	-	-			-	•
889	M & R Equip - General	4a	36,000	13,475	8 330	1,357	2,347	4,151	6,340	-	-	-	-	÷	-
890	M & R Equip - Ind	68	60,000		-	-	•	•	-	•	13,986	-	42,308	3,612	96
891	M & R Equip - CG Check Station	48	160,000	67,374	41,652	6,786	11,738	20,754	31,698	•	•	-	•		•
892	Services	6C	882,000	-	•	•	-	-	-	758,167	106,987	6,968	5,468	617	3,793
. 893	Meters & House Regulators	6	371,000	•	-	-	•	-	•	128,108	234,361	6,567	-	-	1,966
26 895	Other Equipment	11	47,000	19,143	11,844	2,049	2,975	1,119	2,735	4,625	1,842	71	517	47	33
894	Other Equipment	11		-			-		-	•	-	-		-	-
901	Supervision	7	362,000	-	•	-	-	-	-	324,859	35,838	543	434	36	290
902	Mater Reading Expenses	7	626,000	-	•	•	•		-	561,772	61,974	939	751	63	501
903	Customer Records & Coll Expenses	7	4,861,000				•			4,362,261	481,239	7,292	5,833	486	3,889
907	Supervision	7	134,000			•	-		-	120,252	13,266	201	181	13	107
908	Customer Assistance Expenses	9	868,000	•	-	-	-	-	-	868,000		-	-	-	
910	Miscellaneous Customer Service & Info Exp.	7	28,000				-			25,127	2,772	42	34	3	22
911	Supervision	8				-									
912	Demonstrating And Selling Expenses	8	546 000			-		-		491,782	54,218			_	
920	Administrative & General Salanes	12	8,808,000	1,737,818	944,218	159,425	233,412	105,698	237,816	4.352,033	893,131	29,066	93.365	7.927	14,093
921	Office Supplies And Expenses	12	240.000	47 352	25.728	4,344	6,360	2.880	6.480	118,584	24.336	792	2 544	216	384
925	Injuries and Damages	12	552,000	108,910	59,174	9,991	14,628	8,624	14,904	272,743	55,973	1.822	5.851	497	883
932	Maintenance of General Plant	12	192,000	37,802	20.582	3.475	5.088	2,304	5,184	94,867	19,469	634	2.035	173	307
342		·													
	Total Direct Labor Expense		34,743,000	6,313,030	3,747,088	638,573	939,499	468,679	1,011,849	16,437.559	4 535 978	138,727	417,239	36,457	58,325

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 15. ALLOCATION OF RETURN AND TAXES.

Factors are based on the result of allocating the original cost measure of value, as presented on the following page.

	Original	
Service	Cost Less	Allocation
Classification	Depreciation	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 239,559,432	0.2594
Rate N	143,264,639	0.1552
Rate DS	23,818,075	0.0258
Rate LFD	34,770,057	0.0377
Rate XD	11,392,295	0.0123
Interruptible	29,515,088	0.0320
Customer Costs		
Rate R	341,605,418	0.3699
Rate N	89,423,131	0.0968
Rate DS	3,962,313	0.0043
Rate LFD	3,835,990	0.0042
Rate XD	388,500	0.0004
Interruptible	1,857,203_	0.0020
Total	<u>\$ 923,392,141</u>	1.0000

FACTOR 16. ALLOCATION OF REGULATORY COMMISSION EXPENSES, ASSESSMENTS AND OTHER REVENUES.

Factors are based on the allocated cost of service excluding those items being allocated.

	Total	
Service	Cost of	Allocation
Classification	Service	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 60,611,234	0.2191
Rate N	35,174,164	0.1271
Rate DS	5,905,748	0.0213
Rate LFD	8,634,243	0.0312
Rate XD	3,227,351	0.0117
Interruptible	7,895,190	0.0285
<u>Customer Costs</u>		
Rate R	122,222,336	0.4420
Rate N	29,131,508	0.1053
Rate DS	1,130,014	0.0041
Rate LFD	2,003,855	0.0072
Rate XD	176,262	0.0006
Interruptible	530,049	0.0019
Total	<u>\$ 276,641,954</u>	1.0000

				Volumetric Costs			Customer Costs								
	Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
RATE B	ASE														
nietoio	IUTION PLANT														
374	Land	18	2,273,343	1,100,753	681,094	118,214	172,319	55,697	145,267						
374	Land Rights of Way	4	2,273,543	1,100,135	001,034	(10,214	.72,515	33,081	143,207	_	•	-		•	•
375	Structures And Improvements	18	739,180	357,911	221,458	38,437	56,030	18,110	47,234	_					
376	Mains - Small	5	215,322,849	114,379,497	70,798,153	12,467,193	5,835,249		11,842,757					_	
2.0	Mains - Large	A	328,559,063	155,835,564	96,399,229	16,526,521	38,470,056		23,327,693						
	Mains - Direct A∉sign	DA	14,193,075		•			13,686,419	506,656						
378	Measuring & Regulating Equipment - General	18	28,975,073	14,029,730	8,680,932	1,506,704	2,196,311	709,889	1,851,507		-				
379	Measuring & Regulating Equipment - SCADA	18	656,319	317,790	196,633	34,129	49,749	16,080	41,939	-	-		-	-	
379	Measuring & Regulating Equipment - City Gate	18	1,700,598	823 430	509,499	88,431	128,905	41,665	108,668	-		-			
380	Services	вC	433,144,508	-	-	•	-	*	•	372,331,019	52,540 429	3,421,842	2,685 496	303,201	1,862,521
381	Meters	6	36,121,391	-	-	-	-	-		12,472,716	22.817,883	639,349		-	191,443
382	Meter Installations	6	42,041,136	-	•	-	-	•		14,516,804	26,557,386	744,128	•	•	222,818
383	House Regulators	6	5,737,053	=	•	•	-	•	*	1,981,004	3,624,096	101,546	•	-	30,406
384	House Regulator Installations	6	6,928,942	•	•	-	-	•	-	2,392,564	4,377,013	122,642		-	36,723
385	Industrial Measuring & Regulating Equipment	6B	2,576,972	-	•	-	-	•	-		600,692		1,817,D23	155,134	4,123
386	Other Property on Customer Premises	6	206,382	•	•	-	-	•	-	71,264	130,372	3,653	•	-	1,094
386	Other Property on Customer Premises - Farm Ta	ps ti	362,939	•	•	•	•	•	-	125,323 384	229,269	6,424	-	-	1,924
386	Other Property on Customer Premises - Gas Light	nts b	1,113	-	•	•	•	•	•		703	20	•	-	6
386	Other Property on Customer Premises - CNG Refe	10	(1,036) 1,330,441	261,432	161,782	27.808	41,244	24.081	48.827	(358) 483,748	(854)	(18)			(5)
387	Other Equipment	10	44,275	8,700	5,384	925	1,373	∠4,061 801		16,098	238,947 7,952	8,515 83	28,072	2,528 84	3,459
387	Other Equipment - Graphic Data Base	10	1,120,913,816	287,114,807	177,654,164	30,808,360	44,951,236	14,552,742	1,625 37,922,173	404,390,566	111,124,088	5,048,384	934 4,531,525	460,947	115
	Total Distribution Plant		1,120,313,010	207,114,007	177,004,104	30,000,500	44,501,200	14,332,742	37,522,173	404,550.500	111,124,000	3,040,364	4,031,020	400,947	2.354,627
GENER/	AL PLANT														
N) 389	Land and Land Rights	12	1,492,767	294,523	160,025	27,019	39,558	17,913	40 305	737,576	151,367	4,926	15,823	1,343	2,388
OD 390	Structures And Improvements	12	16,370,674	3,229 934	1,754,936	296,309	433,823	196.448	442,008	6,088,750	1.659,986	54,023	173.529	14,734	28,193
391	Office Furniture And Equipment	12	1,227,472	242,180	131,585	22,217	32,528	14,730	33,142	606,494	124,466	4.051	13.011	1,105	1,964
392	Transportation Equipment	12	720,695	142,193	77,259	13,045	19,098	8,649	19,459	356 095	73,078	2,378	7,639	649	1,153
394	Tools, Shop And Garage Equipment	12	6,627,397	1,307,585	710,457	119,956	175,626	79,529	178,940	3,274,597	672,018	21,870	70,250	5,965	10,604
396	Power Operated Equipment	12	55,398	10,930	5,939	1,003	1,468	665	1,496	27,372	5,617	183	587	50	89
397	Communication Equipment	12	90,438	17,843	9,695	1,637	2,397	1,085	2,442	44.685	9,170	298	959	81	145
398	Miscellaneous Equipment	12	515,186	101,646	55,228	9.325	13,652	6,182	13,910	254,553	52 240	1,700	5,461	464	824
399	Other Tangible Property	12													
	Total General Plant		27,100,027	5,346,834	2.905,124	490,511	718,150	325,200	731,702	13,390,122	2,747,942	89 429	287,259	24.391	43,360
	Total Plant		1,148,013,643	292,461,641	180,559,288	31,298,871	45,669,386	14,877,942	38,653,875	417,780,688	113,872,030	5,137,813	4,818,784	485,338	2,397,987
СОММО	N PLANT ALLOCATED @ 15.36%														
390.2	Structures and Improvements	12	3,171	626	340	57	64	38	86	1,567	322	10	34	3	5
391	Office Furniture and Equipment	12	110,464	21,795	11,842	1,999	2,927	1,326	2,983	54,580	11,201	365	1,171	99	177
392.1	Transportation Equipment	12	1,520	300	163	28	40	18	41	751	154	5	16	1	2
	Total Common Plant		115,155	22,721	12,345	2,084	3,051	1,382	3,110	56,898	11,677	380	1,221	103	184
INFORM	ATION SERVICES (IS) ALLOCATED @ 48.83%														
391	Office Furniture and Equipment	12	9,425,306	1.859.613	1,010,393	170,598	249,771	113,104	254,483	4,657,044	955,726	31,104	99,908	8,483	15,080
391.1	Office Furniture and Equip New CIS Software	7	43,006,009	•		-				38,593,592	4,257,595	64,509	51,607	4,301	
001.1	Total Information Services		52,431,315	1,859,613	1,010,393	170,598	249,771	113,104	254,483	43,250,636	5,213,321	95,613	151,515	12,784	34,405 49,485
	ading Service Center Allocated to Other Division														
390.1	Structures And Improvements @ 51.74%	12	(476,229)	(93,960)	(51,052)	(8,620)	(12,620)	(5,715)	(12,858)	(235,305)	(48,290)	(1,572)	(5,048)	(429)	(762)
INTANG	BLE PLANT														
301	Organization (Allocated at 15.36%)	14	21,345	5,537	3,313	551	803	263	681	7,900	2,066	92	90	9	43
302	Franchises And Consents	14	28,256	7,330	4,385	729	1,062	348	901	10,458	2,735	122	119	11	43 57
304	Land and Land Rights	14	381,652	99,001	59,232	9,847	14,350	4,694	12,175	141,249	36,944	1,641	1,603	153	763
305	Manufactured Gas Plant Remediation	1	316,923	234,238	82,685								.,-50		-
	Total Nondepreciable Plant		748,176	346,108	149,615	11,127	16,215	5,305	13,757	159,607	41,745	1,855	1,812	173	863
	Total Utility Plant in Service		1,200,832,060	294,596,121	181,680,589	31,474,080	45,925,803	14,992,018	38,912,367	461,012,524	119,090,483	5,234,089	4,968,284	497,969	2,447,757
															1.2.2.4.

		_		Volumetric Costs				Customer Costs						
Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
OTHER RATE BASE ELEMENTS														
Gas Storage Inventory	1	21,730,000	18,060,843	5,689,357	•	-	-	•	-	-	-	-	-	
Cash Working Capital	12	10,887,000	2,108,545	1,145,646	193,435	283,206	128,244	288,549	5,280,447	1,083,662	35,267	113,282	9,618	17,099
Cash Working Capital - Purchased Gas Related	1	7,961,000	5,883,975	2,077,025	•	-	-		-		-		-	
Materials & Supplies	12	4,212,000	831,028	451,526	76,237	111,618	50,544	113,724	2,981,149	427,097	13,900	44,647	3,791	6,739
Deferred Taxes	14	(307, 196, 000)	(79,686,642)	(47,676,819)	(7,925,657)	(11,550,570)	(3,778,511)	(9,799,552)	(113,693 240)	(29,736,573)	(1,320,943)	(1,290,223)	(122,878)	(614,392)
Customer Deposits	8	(14,517,000)	-					- '	(13,075,462)	(1,441,538)				
Investment Tex Credit	14						•							
Total Other Rate Base Elements		(277,123,000)	(54,802,451)	(38,333,265)	(7,855,985)	(11,155,746)	(3,599,723)	(9,397,279)	(119,407,108)	(29,687,352)	(1,271,776)	(1,132,294)	(109,469)	(590,554)
Total Measure of Value		\$ 923,709,080	\$ 239,793,870	\$ 143,347,324	\$ 23,818,075	\$ 34,770,057	\$ 11,392,295	\$ 29,515,088	\$ 341,605,418	\$ 89,423,131	\$ 3,962,313	\$ 3,835,990	\$ 388,500	\$ 1,857,203

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 17. ALLOCATION OF OPERATION AND MAINTENANCE EXPENSES ASSOCIATED WITH LARGE MAINS.

Factors are based on the allocation of rate base for large and directly assigned mains.

	Original	
Service	Cost Less	Allocation
Classification	Depreciation	Factor
<u> </u>	(2)	(3)
Volumetric Costs		
Rate R	\$ 155,835,564	0.4547
Rate N	96,399,229	0.2813
Rate DS	16,526,521	0.0482
Rate LFD	36,470,056	0.1064
Rate XD	13,686,419	0.0399
Interruptible	23,834,349_	0.0695
Total	\$ 342,752,138	1.0000

FACTOR 18. ALLOCATION OF RATE BASE ASSOCIATED M&R STATION EQUIPMENT.

Factors are based on the composite allocation of all mains.

	Original			
Service	Cost Less	Allocation		
Classification	_ Depreciation	Factor		
<u> </u>	(2)	(3)		
Volumetric Costs				
Rate R	\$ 270,215,061	0.4842		
Rate N	167,197,382	0.2996		
Rate DS	28,993,714	0.0520		
Rate LFD	42,305,305	0.0758		
Rate XD	13,686,419	0.0245		
Interruptible	35,677,106	0.0639		
Total	\$ 558,074,987	1.0000		

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 19. ALLOCATION OF UNCOLLECTIBLE ACCOUNTS

Factors are based on history of net write-offs by class.

Service Classification	5-Yr. Average of Write-offs	Allocation Factor			
(1)	(2)	(3)			
Customer Costs	\ <i>`</i>	, ,			
Rate R	\$ 6,527,255	0.9186			
Rate N	446,108	0.0628			
Rate DS	42,855	0.0060			
Rate LFD	56,327	0.0079			
Rate XD	-	0.0000			
Interruptible	33,323	0.0047			
Total	\$ 7,105,868	1.0000			

FACTOR 20. ALLOCATION OF PENALTY REVENUE

Factors are based on an analysis of penalty revenue, by class.

Service		Allocation
Classification	Penalty Revenue	Factor
(1)	(2)	(3)
Customer Costs		
Rate R	\$ 1,756,329	0.5863
Rate N	1,029,704	0.3437
Rate DS	208,436	0.0696
Rate LFD	· -	0.0000
Rate XD	-	0.0000
Interruptible	1,200	0.0004
Total	\$ 2,995,668	1.0000

		Cost of Service (1)	Rate R (2)	Rate N	Rate DS (4)	Rate LFD (5)	Rate XD Firm (6)	Interruptible (7)
Fully A	Allocated Customer Costs	, .	, ,	. ,	. ,	, ,	`,	` '
Customer Costs		151,985,324	\$ 120,676,213	\$ 28,197,769	\$ 923,694	\$ 2,010,897	\$ 176,751	\$ 529,529
Number of bills		4,651,164	4,177,440	460,728	7,104	5,568	324	3,864
Customer Cost per bill			\$ 28.89	\$ 61.20	\$ 130.02	\$ 361.15	\$ 545.53	\$ 137.04
Direct	Customer Costs							
	M Expenses:							
874	Mains And Services Expenses							
	Mains	5,224,437	4,510,321	- 636,461	- 41,451	32,531	3,673	22,562
876	Services M & R Station Expenses - Industrial	416,333	4,010,021	97,203	41,451	294,027	25,103	22,362 667
878	Meter and House Regulator Expenses	1,948,617	676,443	1,237,500	34,674	254,027	25,105	10,383
879	Customer Installations Expenses	1,274,211	442,329	809,208	22,674	_	-	6,789
890	M & R Equip - Industrial	241,612		56,410	22,014	170,634	14,568	387
892	Services	1,632,948	1,409,744	198,932	12,956	10,168	1,148	7,052
893	Meters & House Regulators	613,730	213,050	389,759	10,921	70,100	1,140	3,270
901	Supervision	424,661	381,395	42,075	638	510	43	340
902	Meter Reading Expenses	1,000,199	898,297	99,099	1,502	1,201	100	801
903	Customer Records & Coll Expenses	13,670,055	12,277,329	1,354,419	20,522	16,417	1,368	10,945
904	Uncollectible Accounts	3,668,158	3,372,781	217,384	33,666	44,327	-	26,372
905	Miscellaneous Cust Accts Expenses	357,714	321,269	35,442	537	430	36	286
907	Supervision	163,868	147,173	16,236	246	197	16	131
908	Customer Assistance Expenses	1,308,000	1,308,000	· •	-	-	-	-
910	Miscellaneous Customer Service Exp.	115,907	104,098	11,484	174	139	12	93
911	Supervision	-	-	-	-	-	-	-
912	Demonstrating and Selling Expenses	3,635,001	3,274,045	360,956	-	-	-	-
913	Advertising Expenses	111,000	99,978	11,022	-	-	-	-
916	Miscellaneous	104,000	9 3,673	10,327	-	-	-	-
926	Employee Pensions and Benefits	6,996,530 *		1,472,123	45,088	135,264	11,272	19,162
408	Payroll Taxes	2,108,518_*	1,607,121	<u>44</u> 3,648	13,588_	40,764	3,397	5.775
Subtotal O & M Expenses		45,015,499	36,469,829	7,499,688	238,637	746,609	60,736	115,015

CALCULATION OF CUSTOMER COSTS PER BILL BY SERVICE CLASSIFICATION

		Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
		(1)	(2)	(3)	(4)	(5)	(6)	Interruptible (7)
		(1)	(-/	(0)	(' /	(0)	(0)	(1)
De	preciation Expense							
380	Services	18,361,237	15,851,481	2,236,837	145,680	114,331	12,908	79,294
381	Meters	1,545,565	536,527	981,536	27,502	-	-	8,235
382	Meter Installations	1,570,413	545,152	997,317	27,944	-	-	8,368
383	House Regulators	402,170	139,609	255,405	7,156	-	-	2,143
384	House Regulator Installations	267,570	92,884	169,925	4,761	-	-	1,426
385	Industrial M & R Equipment	128,474	-	29,995	-	90,732	7,747	206
390	Structures and Improvements	686,526 *	555,813	114,065	3,712	11,924	1,012	1,800
391	Office Furniture And Equipment	3,890,321 *	3,403,191	454,232	9,847	21,252	1,799	4,983
Subto	tal Depreciation	26,852,276	21,124,657	5,239,312	226,602	238,239	23,466	106,455
Rat	e Base							
380	Services	431,281,987	372,331,019	52,540,429	3,421,842	2,685,496	303,201	1,862,521
381	Meters	35,929,948	12,472,716	22,817,883	639,349	-	-	191,443
382	Meter Installations	41,818,318	14,516,804	26,557,386	744,128	-	-	222,818
383	House Regulators	5,706,646	1,981,004	3,624,096	101,546	-	-	30,406
384	House Regulator Installations	6,892,219	2,392,564	4,377,013	122,642	-	-	36,723
385	Industrial M & R Equipment	2,572,849	-	600,692	-	1,817,023	155,134	4,123
390	Structures And Improvements	9,991,022 *	8,088,750	1,659,986	54,023	173,529	14,734	26,193
391	Office Furniture and Equipment	49,540,412 *	43,911,710	5,348,988	100,029	165,697	13,988	51,626
	Deferred Taxes	(146,163,857) *	(113,693,240)	(29,736,573)	(1,320,943)	(1,290,223)	(122,878)	(614,392)
	Customer Deposits	(14,517,000)	(13,075,462)	(1,441,538)		<u>-</u>		
Sub	total Rate Base	423,052,544	328,925,865	86,348,362	3,862,616	3,551,522	364 <u>,</u> 179_	1,811,461
Tax	es and Return							
@	12.3%	51,901,631	40,353,826	10,593,532	473,880	435,714	44,679	222,237
Total D	irect Customer Costs	\$ 123,769,405	\$ 97,948,312	\$ 23,332,532	\$ 939,119	\$ 1,420,562	\$ 128,881	\$ 443,707
Less: \	JSP and EEC Recovery	9,015,112	8,125,794	393,673	90,181	405,463		<u>-</u>
	Total	\$ 114,754,294	\$ 89,822,518	\$ 22,938,859	\$ 848,938	\$ 1,015,098	\$ 128,881	\$ 443,707
Number of bills		4,651,164	4,177,440	460,728	7,104	5,568	324	3,864
Direct (Costs per bill		\$ 21.50	\$ 49.79	\$ 119.50	\$ 182.31	\$ 397.78	\$ 114.83

^{*} Customer cost portion of account.

UGI UTILITIES, INC. - GAS DIVISION CALCULATION OF COSTS RELATED TO LFD AND XD DEMAND CHARGES

Capital Costs	<u>LFD</u>	 XD
Depreciation	\$ 1,165,220	\$ 370,654
Taxes Other Than Income	168,467	73,698
Income Taxes	1,427,209	465,641
Income Available for Return	2,845,106	 928,244
Total	\$ 5,606,002	\$ 1,838,237
Cost Per Month	\$ 467,167	\$ 153,186
Demand Volume Units per Month	73,215	103,283
Demand Costs per MCF	\$ 6.38	\$ 1.48

UGI UTILITIES, INC. - GAS DIVISION Docket No. R-2015-2518438

COST OF SERVICE ALLOCATION STUDY AS OF SEPTEMBER 30, 2017

(Excludes Allocation of Mains to Interruptible Service)

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COMPARISON OF COST OF SERVICE WITH REVENUES UNDER PRESENT AND PROPOSED RATES BY SERVICE CLASSIFICATION FOR THE TWELVE MONTHS ENDED SEPTEMBER 30, 2017 WITHOUT GAS COSTS

	Pro	o Forma Març	Revenue Increase					
Service	Cost of Sen	vice	Under Present	Rates	Under Propose	d Rates		Percent
Classification	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Increase
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Rate R	\$ 184,799,510	67.3%	\$ 108,668,733 *	50.2%	\$ 152,001,162	55.4%	\$ 43,332,429	39.9%
Rate N	65,532,397	23.9%	55,100,277	25.5%	67,596,056	24.6%	12,495,779	22.7%
Rate DS	7,310,922	2.7%	10,602,234	4.9%	11,583,714	4.2%	981,480	9.3%
Rate LFD	12,074,119	4.4%	25,008,284	11.6%	26,762,521	9.7%	1,754,237	7.0%
Rate XD Firm	3,421,615	1.2%	11,785,496	5.5%	11,785,496	4.3%	-	0.0%
Interruptible	1,491,389_	0.5%	4,900,000	2.3%	4,900,000	1.8%	·	0.0%
Total	\$ 274,629,952	100.0%	\$ 216,065,024	100.0%	\$ 274,628,950	100.0%	\$ 58,563,925	27.1%
Other Operating Revenues	4,480,000		4,480,000		4,480,000		0	
Total	\$279,109,952		\$220,545,024		\$279,108,950		\$58,563,925	26.6%

^{*} Includes GL.

DEVELOPMENT OF RATE OF RETURN BY SERVICE CLASSIFICATION UNDER PRESENT RATES

No. on	Cost of	Poto P	Data N	Bata DC	Date LED	Data VD Eine	1 . 4 455 1 -
ltem	Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD-Firm	<u>Interruptible</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Revenues From Tariff Sales							
and Transportation	\$ 216,065,024	\$ 108,668,733	\$ 55,100,277	\$ 10,602,234	\$ 25,008,284	\$ 11,785,496	\$ 4,900,000
2. Other Revenues	4,480,002_	2,859,762	1,316,807	237,174	44,074	12,388	9,797
			<u></u>				
3. Total Operating Revenues	220,545,026	111,528,495	56,417,084	10,839,408	25,052,358	11,797,884	4,909,797
, 5				, .	, .	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7
4. Less: Operating Expenses	164,808,955	113,677,654	37,332,746	3,916,809	6,680,679	2,003,327	1,197,740
3							
5. Return and Income Taxes	55,736,071	(2,149,159)	19,084,338	6,922,599	18,371,679	9,794,557	3,712,057
		• • • • •			.,	-11111	-,,
6. Less: Interest Expense	20,044,000	12,896,310	5,229,480	643,412	962,112	256,563	56,123
		<u> </u>					
7. Taxable Income	35,692,071	(15,045,469)	13,854,858	6,279,187	17,409,567	9,537,994	3,655,934
	*****	(- - - - - - - - - -	, , , , , , , , , , , , , , , , , , , ,	5,2.5,.0.	,	0,007,007	5,555,55
8. Less: Income Taxes	13,962,000	(5,884,983)	5,420,048	2,455,916	6,810,664	3,730,646	1,429,709
5. 2555. III551775 Taxo-	,-,,	(0,000,000)	0,120,010		0,0 (0,00)	0,700,070	1, 125,700
9. Net Return (Ln 5 - Ln 8)	41,774,071	3,735,824	13,664,290	4,466,683	11,561,015	6,063,911	2,282,348
o. Hot Hotelii (Eli o bir o)	, ,	0,, 00,00	70,001,200	1, 100,000	11,001,010	0,000,011	2,202,040
10. Original Cost Measure							
of Value (Factor 15.)	923,709,058	594,388,633	240,980,487	29,672,165	44,323,223	11,791,007	2,553,543
or value (ractor 15.)	020,700,000	001,000,000	240,000,407	25,072,105	44,020,220	11,781,007	2,000,040
11. Rate of Return, Percent	4.52%	0.63%	5.67%	15.05%	26.08%	51.43%	89.38%
11. Nate of Neturn, resocut	7.02.70	0.0070	3.07 /0	13.0370	20.0076	J1.4370	03.3076
12. Relative Rate of Return	1.00	0.14	1.25	3.33	5.77	11.37	10.76
12. Neidlive Nate Of Neturn	1.00	U. 14	1.20	3.33	5.11	11.37	19.76

DEVELOPMENT OF RATE OF RETURN BY SERVICE CLASSIFICATION UNDER PROPOSED RATES

	Cost of						
Item	Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD-Firm	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Revenues From Tariff Sales							
and Transportation	274,628,950	\$ 152,001,162	\$ 67,596,056	\$ 11,583,714	\$ 26,762,521	\$ 11,785,496	\$ 4,900,000
2. Other Revenues	4,480,001	2,855,753	1,319,876	238,086	44,793	12,355	9,138
3. Total Operating Revenues	279,108,951	154,856,915	68,915,932	11,821,800	26,807,314	11,797,851	4,909,138
4. Less: Operating Expenses	165,785,952	114,719,936	37,297,373	3,911,307	6,668,029	1,994,755	1,194,552
5. Return and Income Taxes	113,322,999	40,136,979	31,618,559	7,910,493	20,139,285	9,803,096	3,714,586
6. Less: Interest Expense	20,044,000	12,898,314	5,227,475	643,412	962,112	256,563	56,123
7. Taxable Income	93,278,999	27,238,665	26,391,084	7,267,081	19,177,173	9,546,533	3,658,463
8. Less: Income Taxes	37,857,000	11,058,030	10,709,745	2,949,060	7,783,399	3,872,771	1,483,994
9. Net Return (Ln 5 - Ln 8)	75,465,999	29,078,949	20,908,814	4,961,433	12,355,886	5,930,325	2,230,592
10. Original Cost Measure of Value (Factor 15.)	923,709,061	594,470,219	240,924,394	29,656,847	44,328,368	11,780,795	2,548,438
11. Rate of Return, Percent	8.17%	4.89%	8.68%	16.73%	27.87%	50.34%	87.53%
12. Relative Rate of Return	1.00	0.60	1.06	2.05	3.41	6.16	10.71

SUMMARY OF COST OF SERVICE BY SERVICE CLASSIFICATION

Cost Function	Cost of Service (Schedule E)	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Volumetric Costs							
Rate R	\$ 64,113,714	\$ 64,113,714					
Rate N	37,334,628	, ,	\$37,334,628				
Rate DS	6,387,228			\$ 6,387,228			
Rate LFD	10,063,222			, ,	\$10,063,222		
Rate XD Firm	3,244,864				•	\$ 3,244,864	
Rate IS/IL	961,860						\$ 961,860
Total Volumetric Costs	122,105,516	64,113,714	37,334,628	6,387,228	10,063,222	3,244,864	961,860
Customer Costs							
Rate R	\$ 120,685,796	\$ 120,685,796					
Rate N	28,197,769		\$28,197,769				
Rate DS	923,694			\$ 923,694			
Rate LFD	2,010,897				\$ 2,010,897		
Rate XD Firm	176,751					\$ 176,751	
Rate IS/IL	529,529						\$ 529,529
Total Customer Costs	152,524,436	120,685,796	28,197,769	923,694	2,010,897	176,751	529,529
Total Excluding Gas Costs	\$ 274,629,952	\$ 184,799,510	\$65,532,397	\$ 7,310,922	\$12,074,119	\$ 3,421,615	\$_1,491,389

		_	Cartal	Volumetric Costs					Customer Costs						
	Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
OPERATIO	ION AND MAINTENANCE EXPENSES														
NATURAL	L GAS PRODUCTION EXPENSES														
	Manufactured Gas Production Expenses	_													
710	Operation Supervision and Engineering	1	0	•	-	•	-	•	•	•	•	•	•	-	
717	Total Production Labor and Expenses	1	O	•	-	•	•	•	-	-	•	•	•	-	•
725-736	Total Gas Fuels Expenses	1	0			-			-	-			-		
740-742		1 _	68,000	50,259	17,741		:_						<u>·</u>	·	
	Total Operation		66,000	50,259	17,741	-	•	-	•	-	-	-	•		•
	Production and Gathering														
750 - 760		1	-	•	•	-	-	-	•	-	-	•	-	-	-
761 - 769 770 - 783			•												
	Total Products Extraction Maintenance Exps	i				_	-	_		_			_		
704 - 751	Total Production Expenses			-		·	-	-	-					-	
	Other Gas Supply Expenses														
800 - 803		1	-			-					-			_	
804	Natural Gas City Gate Purchases	1				-	-		-			-	_		
813	Other Gas Supply Expenses	1		•	-		-		_				_	-	-
,	Total Other Gas Supply Expenses	_		<u> </u>		<u> </u>	<u>:</u>		=====						
	Total Natural Gas Production Expenses	_	68,000	50,259	17,741				·	<u>-</u>			<u>.</u>		<u>·</u>
	TORAGE EXPENSE	4													
840 841	Operating Supervision and Engineering Operation Labor and Expenses	4	•	•	•	-	-	•	•	•	•	•	-	•	•
	Operation Labor and Expenses Other Operations Expense	4	-	-		_			-	_	_	_		_	
142 - 042.3	2 Older Obergrous Exheuse	,	_									<u> </u>			<u>`</u>
	Total Natural Gas Storage Expense				-	-	-	•	-	-			•	•	-
TRANSMI	ISSION EXPENSE														
	Total Transmission Operation Expenses	4	-		-		-		-	-	-		-	-	
	Total Transmission Maintenance Expenses	4 _		 .	<u> </u>	<u> </u>	<u> </u>			<u> </u>		·		<u> </u>	
•	Total Transmission Expense		-	-	÷	•	-	-	-	-	-			-	-
DISTRIBU	JTION EXPENSES														
51411104	Operation														
870	Supervision And Engineering	10	2,402,000	495 292	306,495	\$3,565	84,550	43,476	36,991	873,367	431,399	15,373	50,682	4,564	6,245
871	Distribution Load Dispatching	4a	554,000	207,362	128,196	20,686	38,121	63,876	97,559				,	:	.,
872	Compressor Station Labor and Expenses		•												
873	Compressor Station Fuel and Power	2	1,000	186	116	27	119	142	411		-		-	-	-
874	Mains And Services Expenses	5	2,077,287	1,163,904	720,611	129,000	63,773								
	Mains - Small Mains - Large	5 17	3,189,713	1,103,904	947,427	185,459	394.629	126,472	4,755	•	-	•	-	-	•
	Mains - Large Service∌	ec.	5,247,000	1,000,011	271,7£/ -	103,435	304,028	120,472	4,755	4,510,321	636,461	41.451	32,531	3,673	22,562
875	M & R Station Expenses -General	48	425,000	159,078	98,345	16,023	27,710	49,003	74,843	.,0.0,021		41.407	JE, JJ (3,013	££,502
676	M & R Station Expenses - Industrial	68	417,000		-	-		•	•	•	97,203	-	294,027	25,103	667
877	M & R Station Expenses - City Gate Station	4a	348,000	130,258	80,527	13,120	22,690	40,124	61,283		-				
878	Meter and House Regulator Expenses	6	1,959,000	-	•	-	•	-	-	876,443	1,237,500	34,674	-	-	10,383
879	Customer Installations Expenses	8 10	1,281,000 2,527,000	521.067	222 445	56.352		45 700	05.046	442,329	809,208	22,874			6,789
880 861	Other Expenses	10	2,527,000 69,000	521,067 14,228	322,445 8,804	1,539	88,950 2,429	45,739 1,249	38,916 1,063	918,817 25,088	453,849 12,392	16,173 442	53,320 1,458	4,801 131	6,570
001	Rents Fotal Operation		20,477,000	4,222,344	2,612,966	455,971	720,971	370,081	315,821	7,446,365	3,678,012	130,787	432,016	38,272	179 53,395
	Total Operation		20,777,000	40001044	2,0 12,000	.,,,,,,,	, 20,01	075,041	3,3,02 (1,770,500	5,010,012	130,761	402,U10	30,212	22,387

				Volumetric Costs					Customer Costs						
	Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
885	Maintenance Supervision - Engineering and Labor	11	786,000	338,373	209,469	36,863	57,614	18,707	5,659	77,342	30,811	1,179	8,646	786	550
886	Structures & Improvements	18	3,000	1,539	952	168	265	74	3				-	-	
887	Mains - Small	5	5,287,245	2,962,443	1,834,145	328,338	162,318	-	•		-	-		-	
	Mains - Large	17	6,067,756	3,896,726	2,411,452	421,137	1,004,436	321,903	12,102						
888	Maintenance of Compressor Station Equipment	4													
889	M & R Equip - General	4a	187,000	62,508	38,644	6,296	10,888	19,255	29 409	•		•	•	•	-
690	M & R Equip - Industrial	6B	242,000			40.407				-	56,410	•	170,634	14,568	387
891	M & R Equip - City Gate	4a	436,000	163,195	100,890	16,437	28,427	50,271	76,780	4 400 744		-			
692	Services	6C 6	1,640,000	•	•	•	•	-	•	1,409,744	198,932	12,956	10,168	1,148	7,052
893	Meters & House Regulators	11	617,000 102,000	43,911	27,183	4,784	7,477	2 420	734	213,050	389,759 3,998	10,921	4 422	400	3,270
894	Other Expenses	11	(176,000)	(75.788)	(48,904)	(8,254)	(12,901)	2,428 (4,189)	(1,267)	10,037 (17,318)	(6,899)	153 (264)	1,122 (1,936)	102	71
895	Construction and Maintenance Total Maintenance	'' =	17,172,001	7,392,927	4,575,831	805,769	1,258,524	408,449	123 420	1,692,855	673,011	24,945	188,634	(176) 16,428	11,207
	Total Distribution Expenses		37,649,001	11,615,271	7,188,797	1,261,740	1,979,495	778,530	439,241	9,139,220	4,351,023	155,732	620,650	54,700	64,602
CUSTOM	ER ACCOUNTING EXPENSES														
	Operation														
901	Supervision	7 .	425,000							381,395	42,075	638	510	43	340
902	Meter Reading Expenses	7	1,001,000	-		-				898,297	99,099	1,502	1,201	100	801
903	Customer Records & Coll Expenses	7	13,681,000	-	•	-				12,277,329	1,354,419	20,522	16,417	1,368	10,945
904	Uncollectible Accounts	19	5,811,000	1,781,484	134,987	-	-	-		3,372,781	217,384	33,666	44,327		26,372
905	Miscellaneous Cust Accts Expenses	7 _	358,000		<u> </u>	<u> </u>		<u>:</u> _	<u>-</u>	321,269	35,442	537	430	36	286
	Total Customer Accounting Expenses	_	21,076,000	1,781,484	134,987			<u> </u>	<u>-</u>	17,251,071	1,748,419	56,865	62,885	1,547	38,744
တ _{CUSTOM}	ER SERVICE AND INFORMATION EXPENSES														
	Operation														
907	Supervision	7	164,000		-	-		-	-	147,173	16,236	246	197	16	131
908	Customer Assistance Expenses	9	1,308,000		•		-		-	1,308,000	•	-	-	-	
909	informational and Instructional Advertising	. 7	721,000	•		•	-	=	-	647,025	71,379	1,082	865	72	577
910	Miscellaneous Customer Service & Informational	ப ்7	116,000			<u> </u>				104,098	11,484	174	139	12	93
	Total Customer Service & Info Expenses	_	2,309,000		 -	-	<u>-</u>			2,206,296	99,099	1,502	1,201	100	801
SALES E	KPENSES														
	Operation														
911 912	Supervision Demonstrating and Selling Expenses	B	3,635,000	•	•	-	•	-	-	3,274,045	360,956	-	•	-	-
912 913	Demonstrating and Setting Expenses Advertising Expenses	a	111,000		-	-		-	-	3,274,045 99,978	11,022	•	•	-	-
915	Miscellaneous	8	104,000		•	Ť	-	-	-	93,673	10,327	-			
310	Total Sales Expenses	· -	3,650,000							3,467,696	382,305		<u>-</u>		<u> </u>
ADMINIST	RATIVE AND GENERAL EXPENSES														
-	Operation														
920	Administrative & General Salanes	12	9,958,000	2,056,327	1,124,250	193,185	303,719	119,496	87,714	4,920,248	1,009,741	32,861	105,555	8,962	15,933
921	Office Supplies and Expenses	12	9,639,000	1,990,454	1,088,243	186,997	293,990	115.668	85,545	4,762,630	977,395	31,809	102,173	8,675	15,422
923	Outside Services Employed - Other	12	9,243,000	1,908,680	1,043,535	179,314	281,912	110,916	62,852	4,566,966	937,240	30,502	97,976	B,319	14,789
924	Property Damage Insurance	12	195,000	40,268	22,016	3,783	5,948	2,340	1,326	96,350	19,773	644	2,067	176	312
925	Injuries and Damages	12	7,041,000	1,453,967	794,929	138,595	214,751	84,492	47,879	3,478,958	713,957	23,235	74,635	6,337	11,266
926	Employee Pensions and Benefits	13	11,272,000	2,150,698	1,279,372	222,058	349,432	152,172	103,702	5,331,656	1,472,123	45,088	135,264	11,272	19,162
928	Regulatory Commission Expenses	16	828,000	144,754	84,278	14,444	22,734	7,348	2,198	277,450	66,126	2,575	4,522	377	1,193
930	Miscellaneous General Expenses	12 12	678,000	140,007 313,261	76,546	13,153 29,430	20,679	8,136	4,610	335,000	68,749 153,824	2,237	7,197	610	1,085
930 931	Miscellaneous Company Charges	12	1,517,000 277,000	57,201	171,269 31,273	29,430 5,374	46,259 8,449	18,204 3,324	10,316 1,884	749,550 136,866	28,088	5,006 914	16,080 2,936	1,365 249	2,427
421	Other Tatel Operation		50,448,000	10,255,617	5,715,719	984,333	1,547,883	622,096	368,026	24,655,874	5,447,018	174,871	548,395	46,342	82.032
i	Total Operation		30,440,000	10,200,017	3,7 13,7 19	354,355	1,541,003	022,080	300,020	24,000,074	3,447,010	1/4,0/1	246,353	40,342	82,032

				Volumetric Costs				Customer Costs							
		Factor	Cost of	D-4+ D	Date N	Rate DS	Date I ED	D-4- VD 61	1-4161-	D-4- D	S 1	D-4- DD	D-4- FD	B. A MD ET .	
	Account	(2)	Service (3)	(4)	Rate N (5)	(6)	Rate LFD (7)	Rate XD Firm (8)	Interruptible (9)	(10)	(11)	Rate DS (12)	Rate LFD (13)	(14)	Interruptible (15)
	Maintenance														
932	Maintenance of General Plant	12	1,435,000	296,328	162,012	27,839	43,768	17,220	9,758	709,034	145,509	4,736	15,211	1,292	2,296
935	Maintenance of General Plant	12	12,000	2,478	1,355	233	366	144_	82	5,929	1,217	40	127	11	19
	Total Maintenance		1,447,000	298,806	163,367	28,072	44,134	17,364	9,840	714,963	146,726	4,776	15,338	1,303	2,315
	Total Administrative & General Expenses		51,895,000	10,554,423	5,879,086	1,012,405	1,592,017	639,460	377,866	25,370,637	5,593,744	179,647	563,733	47,645	B4,347
	Total Operation and Maintenance Expenses		116,847,001	24,001,437	13,220,611	2,274,145	3,571,512	1,417,990	817,107	57,434,920	12,174,590	393,746	1,248,469	103,992	188,494
DEPREC	CIATION AND AMORTIZATION EXPENSE														
	UTION PLANT														
305	Manufactured Gas Plant Site Remediation	1	207,811	153,593	54,218			_		_				_	_
375	Structures And Improvements	18	27,612	14,162	8,764	1,546	2,438	676	25			_	_		
376	Mains - Small	5	5,007,323	2,805,603	1,737,040	310,955	153,725		-		-		-		-
-	Mains - Large	4	7,640,626	3,849,347	2,382,347	416,414	992,517	-	•						
	Mains - Direct Assign	DA	310,359		_			301,344	9,015						
378	Measuring & Regulating Equipment - General	18	1,128,978	579,053	358,330	63,223	99,689	27,660	1,016	•	•	-	-	-	-
378	Measuring & Regulating Equipment - SCADA	18 18	107,140 88,508	54,952 45,398	34,006 28,092	6,000 4,956	9,450 7,815	2,625	96 80	-	•	-	-	•	-
379	Measuring & Regulating Equipment - City Gate	6C	18 440 532	45,390	20,092	4,530	7,015	2,168	60	15,851,481	2,236,837	145,680	114,331	12,908	79,294
380 381	Services	6 6	1,553,801	-	•		-		•	536,527	981,536	27,502	114,331	12,908	79,294 8,235
381.2	Meters Electronic Meters	Á	445.841	-			-	-		153,949	281,638	7,891		-	2,363
381.2	Meter Installations	A	1,578,782		_			_		545,152	997,317	27,944		-	8.368
383	House Regulators	6	404 313			-		_		139,609	255,405	7,156			2,143
364	House Regulator Installations	6	268,996		-	-	-	_		92.884	169,925	4,761	-		1,426
√ 385	Industrial Measuring & Regulating Equipment	68	128,680	-	-	-			-	_	29,995		90,732	7,747	206
386	Other Property on Customer Premises	6	23,414	-	-	-				8,085	14,791	414	-		124
387	Other Equipment	10	105,852	21,827	13,507	2,360	3,726	1,916	1,630	38,488	19,011	677	2,233	201	275
387.1	Other Equipment	10	4,539	936	579_	101	160	82	70	1,651	815	29	96	99_	12
	Total Distribution Plant		37,473,107	7,524,869	4,616,891	805,555	1,269,530	336,471	11,932	17,367,826	4,987,270	222,054	207,392	20,865	102,446
GENERA	AL PLANT														
390	Structures And Improvements	12	1,124,899	232,292	127,001	21,823	34,309	13 499	7,649	555.813	114,065	3,712	11,924	1,012	1,800
391	Office Furniture And Equipment	12	109,370	22,585	12,348	2,122	3,336	1,312	744	54,040	11,090	361	1,159	98	175
392	Transportation Equipment	12	80,541	16,632	9,093	1,562	2,457	966	548	39,795	8,167	266	854	72	129
394	Tools, Shop And Garage Equipment	12	501,958	103,654	56,671	9,738	15,310	6,023	3,413	248,017	50,899	1,656	5,321	452	803
396	Power Operated Equipment	12	8,536	1,763	964	166	260	102	58	4,218	866	28	90	8	14
397	Communication Equipment	12	40,154	8,291	4,533	779	1,225	482	273	19,840	4,072	133	426	36	64
398	Miscellaneous Equipment	12	85,585	17,672	9,663	1,660	2,610	1,027	582	42,288	8,678	282	907	77	137
399	Other Tangible Property Total General Plant	12 .	1,951,043	402,889	220,273	37,850	59,507	23,411	13,267	964,011	197,837	6,438	20,681	1,755	3,122
	N PLANT ALLOCATED @ 15.36%	-													
	Structures and Improvements	12	2,114	437	239	41	64	25	14	1,045	214	7	22	2	3
390 2	Office Furniture and Equipment	12	14,784	3,053	1,669	287	451	177	101	7,305	1,499	49	157	13	24
391 392.1	Transportation Equipment	12	533	110	60	10	16	. 6	4	263	54	2	6	13	24
382.1	Total Common Plant		17,431	3,600	1,968	338	531	208	119	8,613	1,767	58	185		78
INFORM	ATION SERVICES (IS) ALLOCATED @ 48.83%														
391	Office Furniture and Equipment	12	1,556,244	321,364	175,700	30,191	47, 4 65	18,675	10.582	768,940	157,803	5,136	16,496	1,401	2,490
391.1	Office Furniture and Equip - New CIS Software	7	2,867,067	-					•	2,572,906	283,840	4,301	3,440	287	2,294
501.1	Total Information Services	_	4,423,311	321,364	175,700	30,191	47,465	18,675	10,582	3,341,846	441,643	9,437	19,936	1,688	4,784
Less:															
	Amount Charged to Clearing Accounts	12	(637,000)	(131,541)	(71,917)	(12,358)	(19 429)	(7,644)	(4,332)	(314,742)	(64,592)	(2,102)	(6,752)	(573)	(1,019)
390.1	Struct & Imps- Reading Service Center @ 51.74	% 12	(38,944)	(8,042)	(4.397)	(756)	(1,188)	(467)	(265)	(19,242)	(3,949)	(129)	(413)	(35)	(62)
	Total Depreciation & Amortization Expense	-	43,188,948	8,113,139	4,938,518	860,820	1,356,416	370,654	31,303	21,348,312	5,559,976	235,756	241,029	23,715	109,299
	- con the contract of the cont	_		+1+1	.,,		.,,			2 - 1 - 1 - 1 - 1 -	-,,-	,			,20

					Volumetr	ic Costs					Customer	Costs		
Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
TAXES OTHER THAN INCOME TAXES														
408.10 Capital Stock	15	•			-	*	•	-	-	-			•	-
408.10 County and Municipal Taxes	16	177,000	40,798	23,753	4,071	6,407	2,071	620	78,199	18,638	726	1,274	106	336
408 10 Payroll Related Tax	13	3,397,000	648,148	385,560	86,921	105,307	45,860	31,252	1,606,781	443,648	13,588	40,764	3,397	5,775
408.10 Public Utility Assessment	16	1,663,000	383,322	223,175	38,249	60,201	19,457	5,821	734,713	175,114	6,818	11,974	998	3,160
408 10 Public Utility Reality Tax	15	513,000	140,357	84,132	14,261	22,521	6,310	35 9	189,810	49,658	2,206	2,155	205	1,026
408 10 Miscellaneous Taxes	18							<u>-</u>						
Total Taxes Other Than Income		5,750,000	1,212,825	716,620	123,502	194,438	73,698	38,052	2,609,503	687,058	23,338	56,167	4,706	10,297
Total Operating Expenses		185,785,949	33,327,201	18,875,749	3,258,467	5,122,364	1,862,342	886,462	81,392,735	18,421,624	652,840	1,545,665	132,413	308,090
INCOME TAXES	15	37,857,000	10,357,676	6,208,548	1,052,425	1,661,922	465,641	26,500	14,007,090	3,564,558	162,785	158,999	15,143	75,714
OPERATING INCOME AVAILABLE FOR RETURN	15	75,467,000	20,647,771	12,376,588	2,097,983	3,313,001	928,244	52,827	27,922 790	7,305,206	324,508	316,961	30,187	150,934
TOTAL COST OF SERVICE		279,109,949	64,332,648	37,460,885	6,408,875	10,097,287	3,256,227	965,789	123,322,615	29,391,388	1,140,133	2,021,625	177,743	534,738
TOTAL COST OF SERVICE							0,20,01221		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11.40,100		1.77.40	
Less: Other Revenues														
Reconnection Charges	6C	517,000	-	•	-		-		444,413	62,712	4,084	3,205	362	2,223
Rent From Gas Property	12	165,000	34,073	16,629	3,201	5,033	1,980	1,122	81,527	16,731	545	1,749	149	264
Forfieted Discounts/Penalties	20	2,996,000	-	•	•		-		1,756,555	1,029,725	208,522		-	1,198
Other Miscellaneous Revenues	18	602,000	184,861	107,628	18,446	29,032	9,383	2,807	354,324	84,451	3,288	5,774	481	1,524
Subtotal		4,460,000	218,934	126,257	21,647	34,065	11,363	3,929	2,636,819	1,193,619	216,439	10,728	992	5,209
00														
TOTAL COST OF SERVICE RELATED TO TARIFF SALES AND TRANSPORTATION		\$ 274,629,949	\$ 64,113,714	\$ 37,334,628	\$ 6,387,228	\$ 10,063,222	\$ 3,244,864	\$ 961,860	\$ 120,685,796	\$ 2 <u>8,</u> 197,769	\$ 923,694	\$ 2,010,897	\$ 176,751	\$ 529,529

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 1. ALLOCATION OF COSTS WHICH VARY DIRECTLY WITH PGC SALES.

Factors are based on the pro forma average daily PGC sales volumes for each service classification.

	Pro Forma	
	Average	
	Daily PGC	
Service	Volumes	Allocation
Classification	(Mcf)	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	52,240	0.7391
Rate N	18,444	0.2609
Rate DS	-	•
Rate LFD	-	
Rate XD	-	
Interruptible	-	
Total	70,684	1,0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTORS 2. ALLOCATION OF COMPRESSOR STATION FUEL.

Factors are based on the pro forma average daily throughput volumes for each service classification.

	Pro Forma	
	Average Daily	
	Throughput	
Service	Volumes	Allocation
Classification	(Mcf)	Factor 2
(1)	(2)	(3)
Volumetric Costs		
Rate R	62,313	0.1859
Rate N	38,743	0.1155
Rate DS	8,875	0.0265
Rate LFD	39,903	0.1190
Rate XD Firm	47,722	0.1423
Interruptible	137,744	0.4108
Total	335,300	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 3. CALCULATION OF MAXIMUM DAY EXTRA DEMAND FACTORS.

Factors are based on the maximum day extra demand throughput for each classification.

	Pro Forma Average Daily				
	Throughput	Peak Day	Extra		
Service	Volumes	Capacity	Capacity	Allocation	Allocation
Classification	(Mcf)	(Mcf)	(Mcf)	Factor 3	Factor 3A
(1)	(2)	(3)	(4)=(3)-(2)	(5)	(5)
Volumetric Costs					
Rate R	62,313	363,772	301,459	0.5157	0.5698
Rate N	38,743	224,930	186,187	0.3185	0.3519
Rate DS	8,875	35,791	26,916	0.0460	0.0509
Rate LFD	39,903	54,422	14,519	0.0248	0.0274
Subtotal	149,834	678,915	529,081	0.9050	1.0000
Rate XD Firm	47,722	103,283	<u>55,561</u>	0.0950	
Total	197,556	782,198	584,642	1.0000	1.0000

FACTOR 3B. CALCULATION OF MAXIMUM DAY EXTRA DEMAND FACTORS FOR SMALL MAINS ALLOCATION.

Factors are based on the maximum day extra demand throughput for each classification, excluding XD and Interruptible classifications.

	Pro Forma Average Daily			
	Throughput	Peak Day	Extra	
Service	Volumes	Capacity	Capacity	Allocation
Classification	(Mcf)	(Mcf)	(Mcf)	Factor 3B
(1)	(2)	(3)	(4)=(3)-(2)	(5)
Volumetric Costs		•		
Rate R	62,313	363,772	301,459	0.5828
Rate N	38,743	224,930	186,187	0.3599
Rate DS	8,875	35,791	26,916	0.0520
Rate LFD	7,582	10,340	2,758	0.0053
Total	117,513	634,833	517,320	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 4. ALLOCATION OF COSTS ASSOCIATED WITH LARGE DISTRIBUYION MAINS.

Factors are based on the weighting of the factors derived from average daily throughput volumes volumes and from maximum day extra capacity demand for each service classification, as follows:

		Average		Maxim	um Day	
		aily Through	nput	Extra D	Demand	
Service		Allocation	Weighted	Allocation	Weighted	Allocation
Classification	Interruptible	Factor	Factor*	Factor 3A	Factor	Factor 4
(1)	(2)	(3)	(4)=(3)x	(5)	(6)=(5)x	(7)=(4)+(6)
			0.4287		0.5713	
Volumetric Costs						
Rate R	62,313	0.4159	0.1783	0.5698	0.3255	0.5038
Rate N	38,743	0.2586	0.1108	0.3519	0.2010	0.3118
Rate DS	8,875	0.0592	0.0254	0.0509	0.0291	0.0545
Rate LFD	39,903	0.2663	0.1142	0.0274	0.0157	0.1299
Rate XD Firm		-	-	-	•	-
Interruptible		-				
Total	149,834	1.0000	0.4287	1.0000	0.5713	1.0000

^{*} The weighting of the factors is based on the percentage of average daily throughput of 335,300 mcf divided by peak day demand of 782,198 mcf. (335,300 / 782,198 = 42.87%)

FACTOR 4A. ALLOCATION OF COSTS ASSOCIATED WITH LOAD DISPATCHING AND M&R STATION EQUIPMENT.

Factors are based on the weighting of the factors derived from average daily throughput volumes and from maximum day extra capacity demand for each service classification, as follows:

		Average Daily Throughput			um Day Dema <u>n</u> d	
Service Classification	Throughput	Allocation Factor 2	Weighted Factor	Allocation Factor 3	Weighted Factor	Allocation Factor
(1)	(2)	(3)	(4)=(3)x 0.4287	(5)	(6)=(5)x 0.5713	(7)=(4)+(6)
Volumetric						
Rate R	62,313	0.1859	0.0798	0.5157	0.2945	0.3743
Rate N	38,743	0.1155	0.0494	0.3185	0.1820	0.2314
Rate DS	8,875	0.0265	0.0114	0.0460	0.0263	0.0377
Rate LFD	39,903	0.1190	0.0510	0.0248	0.0142	0.0652
Rate XD-Firm Interruptible	47,722 137,744	0.1423 0.4108	0.0610 0.1761	0.0950	0.0543	0.1153 0.1761
Total	335,300	1.0000	0.4287	1.0000	0.5713	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 5. ALLOCATION OF COSTS ASSOCIATED WITH SMALL DISTRIBUTION MAINS.

Factors are based on the weighting of the factors derived from average daily throughput volumes and from maximum day extra capacity demand for each service classification, as follows:

	Average Daily Throughput			Maximum Day Extra Demand			
Service Classification	Volumes (Mcf)	Allocation Factor	Weighted Factor	Allocation Factor 3B	Weighted Factor	Allocation Factor 5	
(1)	(2)	(3)	(4)=(3)x 0.4287	(5)	(6)=(5)x 0.5713	(7)	
Volumetric Costs							
Rate R	62,313	0.5303	0.2273	0.5828	0.3330	0.5603	
Rate N	38,743	0.3297	0.1413	0.3599	0.2056	0.3469	
Rate DS	8,875	0.0755	0.0324	0.0520	0.0297	0.0621	
Rate LFD	7,582	0.0645	0.0277	0.0053	0.0030	0.0307	
Rate XD - Firm		-	-	-	-	-	
Interruptible (IS)							
Total	117,513	1.0000	0.4287	1.0000	0.5713	1.0000	

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 6. ALLOCATION OF COSTS ASSOCIATED WITH ACCOUNT 381, METERS.

Factors are based on the cost of meters by class included in Account 381, Meters.

Service	Cost of	Allocation
Classification	Meters	Factor
(1)	(2)	(3)
Customer Costs		
Rate R	\$ 15,645,801	0.3453
Rate N	28,616,967	0.6317
Rate DS	800,115	0.0177
Rate LFD	-	-
Interruptible	<u>240,109</u>	0.0053
Total	\$ 45,302,992	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 6B. ALLOCATION OF COSTS ASSOCIATED WITH INDUSTRIAL MEASURING AND REGULATING EQUIPMENT, ACCOUNT 385.

Factors are based on the cost of M&R equipment by class included in Account 385, Industrial Measuring and Regulating Equipment.

Service Classification	Cost of M&R Equipment	Allocation Factor
(1)	(2)	(3)
Customer Costs		
Rate N	\$ 1,223,583	0.2331
Rate LFD	3,702,212	0.7051
Rate XD - Firm	316,174	0.0602
Interruptible	8, <u>475</u>	0.0016
Total	\$ 5,250,444	1.0000

FACTOR 6C. ALLOCATION OF COSTS ASSOCIATED WITH SERVICES.

Factors are based on the cost of services by class included in Account 380, Service Lines.

Service Classification (1)	Cost of Services (2)	Allocation Factor (3)
Customer Costs		
Rate R	\$ 436,652,618	0.8596
Rate N	61,565,658	0.1213
Rate DS	3,993,767	0.0079
Rate LFD	3,130,250	0.0062
Rate XD - Firm	372,098	0.0007
Interruptible	2,172,285	0.0043
Total	\$ 507,886,676	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 7. ALLOCATION OF COSTS ASSOCIATED WITH CUSTOMER ACCOUNTING. AND METER READING

Factors are based on the number of customers for each classification, as follows.

Service	Number of	Allocation
Classification	Customers	Factor 7
(1)	(2)	(3)
Customer Costs		
Rate R	348,120	0.8974
Rate N	38,394	0.0990
Rate DS	592	0.0015
Rate LFD	464	0.0012
Rate XD	27	0.0001
Interruptible	322_	8000.0
Total	387,919	1.0000

FACTOR 8. ALLOCATION OF COSTS ASSOCIATED WITH SALES EXPENSES.

Factors are based on the number of Rate R and Rate N customers.

Service	Number of	Allocation
Classification	Customers	Factor
(1)	(2)	(3)
Customer Costs		
Rate R	348,120	0.9007
Rate N	38,394	0.0993
Total	<u>3</u> 86,514	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 9 (DA). ALLOCATION OF CUSTOMER ASSISTANCE EXPENSES.

These costs are directly assigned to the Residential Classification.

Service	Allocation
Classification	Factor
(1)	(3)
Customer Costs	
Rate R	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 10. ALLOCATION OF DISTRIBUTION OPERATION OTHER EXPENSES AND RENT.

Factors are based on distribution operation expenses other than those being allocated.

Service Classification	Operation Expenses	Allocation Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 3,191,757	0.2062
Rate N	1,975,222	0.1276
Rate DS	344,515	0.0223
Rate LFD	545,042	0.0352
Rate XD	279,617	0.0181
Interruptible	238,851	0.0154
Customer Costs		
Rate R	5,629,093	0.3636
Rate N	2,780,372	0.1796
Rate DS	98,799	0.0064
Rate LFD	326,558	0.0211
Rate XD	28,776	0.0019
Interruptible	40,401	0.0026
Total	\$ 15,479,003	1.0000

FACTOR 11. ALLOCATION OF DISTRIBUTION MAINTENANCE OTHER EXPENSES.

Factors are based on distribution maintenance expenses other than those being allocated.

Service Classification	Maintenance Expenses	Allocation Factor
(1)	(2)	(3)
Volumetric Costs		, ,
Rate R	\$ 7,084,872	0.4305
Rate N	4,385,131	0.2665
Rate DS	772,208	0.0469
Rate LFD	1,206,069	0.0733
Rate XD	391,429	0.0238
Interruptible	118,291	0.0072
Customer Costs		
Rate R	1,622,794	0.0984
Rate N	645,101	0.0392
Rate DS	23,877	0.0015
Rate LFD	180,802	0.0110
Rate XD	15,716	0.0010
Interruptible	10,709	0.0007
Total	\$ 16,456,999	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 12. ALLOCATION OF ADMINISTRATIVE AND GENERAL EXPENSES.

Factors are based on the allocation of operation and maintenance expenses.

	Operation &	
Service	Maintenance	Allocation
Classification	Expenses	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 13,396,755	0.2065
Rate N	7,323,784	0.1129
Rate DS	1,261,740	0.0194
Rate LFD	1,979,495	0.0305
Rate XD	778,530	0.0120
Interruptible	439,241	0.0068
Customer Costs		
Rate R	32,064,283	0.4941
Rate N	6,580,846	0.1014
Rate DS	214,099	0.0033
Rate LFD	684,736	0.0106
Rate XD	56,347	0.0009
Interruptible	104,147	0.0016
Total	\$ 64,884,003	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 13. ALLOCATION OF LABOR RELATED TAXES AND BENEFITS.

Factors are based on the allocation of total operation and maintenance direct labor expense to service classifications as shown on the following page.

Service Classification	Total Labor Expense	Allocation Factor
(1)	(2)	(3)
Volumetric Costs	(2)	(0)
Rate R	\$ 6,627,630	0.1908
Rate N	3,942,463	0.1135
Rate DS	683,366	0.0197
Rate LFD	1,075,661	0.0310
Rate XD	468,679	0.0135
Interruptible	320,922	0.0092
Customer Costs		
Rate R	16,437,559	0.4730
Rate N	4,535,978	0.1306
Rate DS	138,727	0.0040
Rate LFD	417,239	0.0120
Rate XD	36,457	0.0010
Interruptible	58,325	0.0017
Total	\$ 34,743,006	1.0000

FACTOR 14. ALLOCATION OF ORGANIZATION, FRANCHISES AND CONSENTS, MISCELLANEOUS INTANGIBLE PLANT AND OTHER RATE BASE ELEMENTS.

Factors are based on the allocation of the original cost less depreciation excluding the items being allocated, as follows:

Service	Original Cost Less	Allocation
Classification	Depreciation	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 336,561,398	0.2736
Rate N	201,727,996	0.1640
Rate DS	34,222,594	0.0278
Rate LFD	53,928,674	0.0438
Rate XD	15,165,501	0.0123
Interruptible	905,970	0.0007
Customer Costs		
Rate R	455,139,051	0.3701
Rate N	119,117,959	0.0968
Rate DS	5,281,401	0.0043
Rate LFD	5,124,401	0.0042
Rate XD	511,205	0.0004
Interruptible	2,470,732	0.0020
Total	\$ 1,230,156,882	1.0000

UGI UTILITES, INC. - GAS DIVISION

						Volumetri	c Costs					Customer	Costs	_	
	Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	{10}	(11)	(12)	(13)	{14}	(15)
	ABOR EXPENSE														
DIRECT L		_													
750-7 6 0	Total Production & Gathering Operation Expense:	. 1			17,741	•	-	•	•	•	•	•	•	•	•
761 - 769	Total Gas Raw Materials Expenses	1	68,000	50,259		•	-	•	•	•	•	-	-	-	-
850 - 860		4	•	-	-	•	-	-	-	•	•		•	•	-
861 - 867	Total Transmission Maintenance Expenses	4													
870	Operation Supervision and Engineering	10	2,093,000	431,577	267,067	45,674	73,674	37,883	32,232	761,015	375,903	13,395	44,162	3,977	5,442
871	Distribution Load Dispatching	48	436,000	163,195	100,690	16,437	28,427	50,271	76,780	-	-	•	-	-	-
874	Mains And Services Expenses														
	Mains - Small	5	76B 244	430,447	266,504	47,708	23,585	•		•	-	•	•	•	•
	Mains - Large	17	1,172,256	588,200	350,387	61,192	145,946	46,773	1,758	•	•	•	•	•	-
	Services	6C	1,940,500	•	•	•	-	-	•	1,658,054	235,383	15,330	12,031	1,358	B,344
875	M & R Station Expenses -General	4a	233,000	87,212	53,916	8,784	15,192	26,865	41,031	-	-	-	-	-	
876	Measuring and Regulating Station Expenses-indus	1 68	225,000	-			-	-	•	-	52,448	-	158,648	13,545	360
877	Measuring and Regulating Station Expenses-City C		168,000	62,882	38,875	6,334	10,954	19,370	29,585	-	-		-		-
878	Mater And House Regulator Expenses	6	1,447,000		· -					499,649	914,070	25 612		•	7,669
879	Customer Installation Expenses	6	994.000		_		_	_	-	343,228	627,910	17,594	-		5,268
	Other Expenses	10	1.698.000	350,128	216,665	37,865	59,770	30,734	26,149	617,393	304,961	10.867	35.828	3,226	4.415
088	Rent	10	1,050,000	550,.20	,	-	,							-,	
881		11	661,000	284,561	176.157	31,001	48 451	15,732	4.759	65,042	25.911	992	7.271	661	463
885	Supervision - Engineering and Labor	18	001,000	204,001	,,,,,,,	0,,00	70,701	10,102	3,100	00,272	20,011	-		-	
886	Structures & Improvements		4 804 044	897,495	555.668	99,472	49.176								
887	Mains - Small	5	1,601,811	1,180,543	730,568	127,587	304,302	97,523	3,666	=	-	•	_	=	-
	Mains - Large	17	2,444,189							•	-	•	•	•	-
889	M & R Equip - General	4a	36,000	13,475	8,330	1,357	2,347	4,151	6,340	•	13,986	•	42,306	3,612	96
890	M & R Equip - Ind	6B	60,000	·						•		•		3,012	
891	M & R Equip - CG Check Station	4a	180,000	67,374	41,652	6,786	11,736	20,754	31,698			_ :	_ :		
892	Services	6C	882,000	•	•	•	•	-	•	758,167	106,987	6,968	5,468	617	3,793
. 893	Meters & House Regulators	6	371,000	•			•	-	• • • • • • • • • • • • • • • • • • • •	128,108	234,361	6,567	·	•	1,966
N 895	Other Equipment	11	47,000	20 234	12,528	2,204	3,445	1,119	338	4,625	1,842	71	517	47	33
894	Other Equipment	11	-	-	•	•	-	•	-	•	•		•	•	•
901	Supervision	7	362,000	•	-		•	-	-	324,659	35.838	543	434	36	290
902	Meter Reading Expenses	7	628,000		-	-		-	•	561,772	61,974	939	751	63	501
903	Customer Records & Coil Expenses	7	4.861,000	*		-			-	4,362,261	481,239	7,292	5,833	466	3,889
907	Supervision	7	134,000	-	-		-			120,252	13,266	201	161	13	107
908	Customer Assistance Expenses	9	868,000	-	-	-	-		-	868,000	•	-	-	-	-
910	Miscellaneous Customer Service & Info Exp.	7	28,000					-		25 127	2,772	42	34	3	22
911	Supervision	8						-	-				-	-	
912	Demonstrating And Selling Expenses	8	546,000	-	•	-		÷	-	491,782	54,218	-	•	+	
920	Administrative & General Salaries	12	8,808,000	1.818.852	994,423	170,875	268,644	105,696	59,894	4,352,033	893,131	29,068	93,365	7,927	14,093
921	Office Supplies And Expenses	12	240,000	49.560	27,096	4,658	7,320	2,880	1,632	118,584	24,338	792	2,544	216	384
	Injuries and Damages	12	552,000	113,988	62,321	10,709	16,836	6,624	3,754	272,743	55,973	1,822	5,851	497	683
925	Maintenance of General Plant	12	192,000	39.648	21.677	3,725	5,856	2,304	1.306	94,867	19,469	634	2,035	173	307
932	Markenance of General Floris	–	,02,000												
	Total Direct Labor Expense		34,743,000	6,627,630	3,942,463	683,386	1,075,661	468,679	320,922	16,437,559	4,535,978	138,727	417,239	36,457	58,325

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 15. ALLOCATION OF RETURN AND TAXES.

Factors are based on the result of allocating the original cost measure of value, as presented on the following page.

	Original	
Service	Cost Less	Allocation
Classification	Depreciation	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 252,630,563	0.2736
Rate N	151,418,578	0.1640
Rate DS	25,694,534	0.0278
Rate LFD	40,492,378	0.0439
Rate XD	11,392,295	0.0123
Interruptible	691,235	0.0007
Customer Costs		
Rate R	341,605,418	0.3700
Rate N	89,423,131	0.0968
Rate DS	3,962,313	0.0043
Rate LFD	3,835,990	0.0042
Rate XD	388,500	0.0004
Interruptible	1,857,203	0.0020
Total	<u>\$ 923,392,138</u>	1.0000

FACTOR 16. ALLOCATION OF REGULATORY COMMISSION EXPENSES, ASSESSMENTS AND OTHER REVENUES.

Factors are based on the allocated cost of service excluding those items being allocated.

	Total	
Service	Cost of	Allocation
Classification	Service	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 63,763,774	0.2305
Rate N	37,129,679	0.1342
Rate DS	6,352,111	0.0230
Rate LFD	10,007,945	0.0362
Rate XD	3,227,351	0.0117
Interruptible	957,150	0.0035
Customer Costs	•	
Rate R	122,232,253	0.4418
Rate N	29,131,508	0.1053
Rate DS	1,130,014	0.0041
Rate LFD	2,003,855	0.0072
Rate XD	176,262	0.0006
Interruptible	530,049_	0.0019
Total	<u>\$ 276,641,951</u>	1.0000

				Volumetric Costs				Customer Costs							
	Account	Factor	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
RATE B	IASE														
DISTRIE	BUTION PLANT														
374	Land	18	2,273,343	1,165,998	721,559	127,307	200,736	55,697	2,046	-	-	•	-	•	-
374	Land Rights of Way	4					-	-	-	-					
375	Structures And Improvements	18	739,180	379,125	234,616	41,394	65,270	18,110	665	-	-		-	-	-
376	Mains - Small	5	215,322,649	120,645,392 165,528,056	74,695,496	13,371,549 17,908,469	6,610,411	•	-	•	-	•	•	-	•
	Mains - Large	4 DA	328,559,063 14,193,075	100,020,000	102,444,718	17,300,408	42,679,822	13,686,419	506.656						
378	Mains - Direct Assign	18	28,975,073	14,861,315	9,196,688	1,622,604	2,558,499	709,889	26,078						
379	Measuring & Regulating Equipment - General Measuring & Regulating Equipment - SCADA	18	856 319	336,626	208,316	36,754	57,953	16,080	20,076 591	•	-	•	-	•	•
379	Measuring & Regulating Equipment - City Gate	18	1,700,598	872,237	539,770	95 233	150,163	41,665	1,531	•	-	-	•	•	•
380	Services	6C	433,144,508		-	00,200	150,105	41,005	1,001	372,331,019	52,540,429	3,421,842	2,685,496	303,201	1,862,521
381	Meters	6	36,121,391	-		-	_	-		12,472,716	22,817,883	639,349	2,000,400	303,201	191,443
382	Meter Installations	6	42,041,135	_	-		_		_	14,516,804	26,557,386	744,128	-		222,818
383	House Regulators	6	5,737,053				-		-	1,981,004	3 624 096	101,546	_		30,406
384	House Regulator Installations	6	6,928,942		-	-	-		-	2,392,564	4,377,013	122,642	-		36,723
385	Industrial Measuring & Regulating Equipment	6B	2,576,972	•	-	-	-	-	-		600,692		1,817,023	155,134	4,123
386	Other Property on Customer Premises	6	206,382	-		-	-		-	71,264	130,372	3,653			1,094
386	Other Property on Customer Premises - Farm Ta	aps 6	362,939		-		-			125,323	229,269	6.424	-		1,924
386	Other Property on Customer Premises - Gas Lig		1,113	•	-	•		•	-	384	703	20	-		6
386	Other Property on Customer Premises - CNG Ref		(1,036)		·		-	•	-	(356)	(654)	(18)	-	-	(5)
387	Other Equipment	10	1,330,441	274,337	169,764	29,669	46,832	24,081	20,489	483,748	238,947	8,515	28,072	2,528	3,459
387	Other Equipment - Graphic Data Base	10	44,275	9,130	5,649	987	1,55B	801	682	16,098	7,952	283_	934	84	115
	Total Distribution Plant		1,120,913,616	304,072,216	108,216,574	33,231,966	52,371,244	14,552,742	550,738	404,390.566	111,124,088	5,048,384	4,531,525	460,947	2,354,627
GENER	AL PLANT														
389	Land and Land Rights	12	1,492,767	308,256	168,533	28,960	45,529	17,913	10,151	737,576	151,357	4,926	15,823	1,343	2.388
390	Structures And Improvements	12	16,370 674	3,380,544	1,845,249	317,591	499,306	196,448	111,321	8,088,750	1,659,986	54,023	173,529	14,734	26,193
391	Office Furniture And Equipment	12	1,227,472	253,473	138,582	23,813	37,438	14,730	8,347	606,494	124,466	4,051	13,011	1,105	1,964
392	Transportation Equipment	12	720,695	148,624	81,366	13,991	21,981	8,648	4,901	356,095	73,078	2,378	7,639	549	1,153
394	Tools, Shop And Garage Equipment	12	6,627,397	1,368,557	748 233	128,572	202,136	79,529	45,066	3,274,597	672,018	21,870	70,250	5,965	10,604
396	Power Operated Equipment	12	55,398	11,440	6,254	1,075	1,690	665	377	27,372	5,617	183	587	50	89
397	Communication Equipment	12	90,438	18,675	10,210	1,754	2,758	1,085	615	44,685	9,170	298	959	81	145
398	Miscellaneous Equipment	12	515,186	106,386	58,164	9,995	15,713	6,182	3,503	254,553	52,240	1,700	5,461	464	824
399	Other Tangible Property	12				`				<u> </u>	-			·	
	Total General Plant		27,100,027	5,596,155	3.059,591	525,741	826,551	325,200	184,281	13,390,122	2,747,942	89,429	287,259	24,391	43,360
	Total Plant		1,148,013,643	309,868.371	<u>191,2</u> 76,165	33,757,707	53 197,795	14,877,942	743,019	417,780,688	113,872,030	5,137,813	4,818,784	485,338	2,397,987
COMMO	ON PLANT ALLOCATED @ 15.36%														
390 2		12	3,171	655	358	62	97	38	22	1,567	322	10	34	3	5
391	Office Furniture and Equipment	12	110,464	22,811	12,471	2,143	3,369	1,326	751	54,580	11,201	365	1,171	99	177
392.1	Transportation Equipment	12	1,520	314	172	2,234	46	18_	10	751	154	5_	16	1	2
	Total Common Plant		115,155	23,780	13,001	2,234	3,512	1,382	783	56,898	11,677	380	1,221	103	184
INFORM	IATION SERVICES (IS) ALLOCATED @ 48.83%														
391	Office Furniture and Equipment	12	9,425,306	1,946,328	1,084,117	182,851	287,472	113,104	64,092	4,657,044	955,726	31.104	99.908	8,483	15.080
391.1	Office Furniture and Equip - New CIS Software	7	43,006,009				•		-	38,593,592	4,257,595	64,509	51.607	4,301	34,405
	Total Information Services		52,431,315	1,946,326	1,064,117	182,851	287,472	113,104	64,092	43,250,638	5 213 321	95,613	151,515	12,784	49,485
Less: Re	nading Service Center Allocated to Other Division	15													
390 1	Structures And Improvements @ 51,74%	12	(476,229)	(98,341)	(53,766)	(9,239)	<u>(14,525)</u>	(5,715)	(3,238)	(235,305)	(48,290)	(1,572)	(5,048)	(429)	(762)
INTANG	IBLE PLANT														
301	Organization (Allocated at 15.38%)	14	21,345	5,840	3,501	593	935	263	15	7,900	2,066	92	90	9	40
301	Franchises And Consents	14	28,256	7,731	4,634	788	1,238	203 348	20	7,900 10.458	2,000	92 122	90 119	_	43
304	Land and Land Rights	14	381,652	104,420	62,591	10,610	15,716	346 4,694	267	141,249	2,735 36, 9 44	122 1,641	1,603	11 153	57 763
305	Manufactured Gas Plant Remediation	1	316,923	234,238	82,685	,5,510	10,710	7,034	201	171,240	30,344	1,041	7,003	193	/63
200	Total Nondepreciable Plant	•	748,178	352,229	153,411	11,989	18,889	5,305	302	159,607	41,745	1,855	1,812	173	863
	Total Utility Plant in Service		1,200,832,960	311,892,385	192,452,928	33,945,542	53,493,143	14,992,018	804,958	461,012,524	119,090,483	5,234,089	4,988,284	497,969	2,447,757
OTHER	RATE BASE ELEMENTS														
	Gas Storage Inventory	1	21,730,000	16,060,643	5,669,357	•	-	-	-	-	-	•	-		-

					Volumetr	ic Costs				<u> </u>	Customer	Costs		
Account	Factor Ref.	Cost of Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
₍₁₎	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Cash Working Capital	12	10,687,000	2,206,866	1,206,562	207,328	325,954	128,244	72,672	5,280,447	1,083,662	35,267	113,282	9,618	17,099
Cash Working Capital - Purchased Gas Related		7,961,000	5,883,975	2,077,025	-	•	•	-	•	•	•	-	-	-
Materials & Supplies	12	4,212,000	869,778	475,535	81,713	128,466	50,544	28,642	2.081,149	427,097	13,900	44,647	3,791	6,739
Deferred Taxes	14	(307,196,000)	(84,048,826)	(50,380,144)	(8,540,049)	(13,455,185)	(3,778,511)	(215,037)	(113,693,240)	(29,736,573)	(1.320.943)	(1,290,223)	(122,878)	(614,392)
Customer Deposits	8	(14,517,000)	•		-	-	=	-	(13,075,462)	(1,441,538)	•	-		
Investment Tax Credit	14										-		-	-
Total Other Rate Base Elements		(277, 123,000)	(59,027,584)	(40,951,665)	(8,251,008)	(13,000,765)	(3.599,723)	(113,723)	(119,407,106)	(29,667,352)	(1,271,776)	(1,132,294)	(109,469)	(590,554)
Total Measure of Value		\$ 923,709,060	\$ 252,864,801	\$151,501,263	\$ 25,694,534	\$ 40,492,378	\$ 11,392,295	\$ 691,235	\$ 341,605,418	\$ 89,423,131	\$ 3,962,313	\$ 3,835,990	\$ 388,500	\$ 1,857,203

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 17. ALLOCATION OF OPERATION AND MAINTENANCE EXPENSES ASSOCIATED WITH LARGE MAINS.

Factors are based on the allocation of rate base for large and directly assigned mains.

	Original	
Service	Cost Less	Allocation
Classification	Depreciation	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 165,528,056	0.4830
Rate N	102,444,716	0.2989
Rate DS	17,906,469	0.0522
Rate LFD	42,679,822	0.1245
Rate XD	13,686,419	0.0399
Interruptible	506,656	0.0015
Total	\$ 342,752,138	1.0000

FACTOR 18. ALLOCATION OF RATE BASE ASSOCIATED M&R STATION EQUIPMENT.

Factors are based on the composite allocation of all mains.

	Original	
Service	Cost Less	Allocation
Classification	Depreciation	Factor
(1)	(2)	(3)
Volumetric Costs		
Rate R	\$ 286,173,448	0.5129
Rate N	177,140,212	0.3174
Rate DS	31,278,018	0.0560
Rate LFD	49,290,233	0.0883
· Rate XD	13,686,419	0.0245
Interruptible	506,656_	0.0009
Total	\$ 558,074,986	1.0000

FACTORS FOR ALLOCATING COST OF SERVICE TO SERVICE CLASSIFICATIONS

FACTOR 19. ALLOCATION OF UNCOLLECTIBLE ACCOUNTS

Factors are based on history of net write-offs by class.

Service	Service 5-Yr. Average	
Classification	of Write-offs	Factor
(1)	(2)	(3)
Customer Costs		
Rate R	\$ 6,527,255	0.9186
Rate N	446,108	0.0628
Rate DS	42,855	0.0060
Rate LFD	56,327	0.0079
Rate XD	-	0.0000
Interruptible	33,323	0.0047
Total	\$ 7,105,868	1.0000

FACTOR 20. ALLOCATION OF PENALTY REVENUE

Factors are based on an analysis of penalty revenue, by class.

Service		Allocation
Classification	_Penalty Revenue	Factor
(1)	(2)	(3)
Customer Costs		
Rate R	\$ 1,756,329	0.5863
Rate N	1,029,704	0.3437
Rate DS	208,436	0.0696
Rate LFD	-	0.0000
Rate XD	-	0.0000
Interruptible	1,200_	0.0004
Total	\$ 2,995,668	1.0000

CALCULATION OF CUSTOMER COSTS PER BILL BY SERVICE CLASSIFICATION

		Cost of Service (1)	Rate R (2)	Rate N	Rate DS (4)	Rate LFD (5)	Rate XD Firm (6)	Interruptible (7)
Fully A	Allocated Customer Costs							
	ner Costs	151,994,907	\$ 120,685,796	\$ 28,197,769	\$ 923,694	\$ 2,010,897	\$ 176,751	\$ 529,529
Numbe	er of bills	4,651,164	4,177,440	460,728	7,104	5,568	324	3,864
Custo	mer Cost per bill		\$ 28.89	\$ 61.20	\$ 130.02	\$ 361.15	\$ 545.53	\$ 137.04
	Customer Costs							
	M Expenses:							
874	Mains And Services Expenses							
	Mains	-	4 540 004	-	-	-		-
	Services	5,224,437	4,510,321	636,461	41,451	32,531	3,673	22,562
876	M & R Station Expenses - Industrial	416,333 1,948,617	- 676,443	97,203 1,237,500	34,674	294,027	25,103	667
878 879	Meter and House Regulator Expenses Customer Installations Expenses	1,274,211	442,329	809,208	22,674 22,674	-	-	10,383 6,789
890	M & R Equip - Industrial	241,612	442,329	56,410	22,074	170,634	14,568	387
892	Services	1,632,948	1,409,744	198,932	12,956	10,168	1,148	7,052
893	Meters & House Regulators	613,730	213,050	389,759	10,921	10,100	1,140	3,270
901	Supervision	424,661	381,395	42,075	638	510	43	340
902	Meter Reading Expenses	1,000,199	898,297	99,099	1,502	1,201	100	801
903	Customer Records & Coll Expenses	13,670,055	12,277,329	1,354,419	20,522	16,417	1,368	10,945
904	Uncollectible Accounts	3,668,158	3,372,781	217,384	33,666	44,327	- 1,000	26,372
905	Miscellaneous Cust Accts Expenses	357,714	321,269	35,442	537	430	36	286
907	Supervision	163,868	147,173	16,236	246	197	16	131
908	Customer Assistance Expenses	1,308,000	1,308,000	-		-		-
910	Miscellaneous Customer Service Exp.	115,907	104,098	11,484	174	139	12	93
911	Supervision	-	· •	, -	-	-	-	-
912	Demonstrating and Selling Expenses	3,635,001	3,274,045	360,956	-	_	-	-
913	Advertising Expenses	111,000	99,978	11,022	-	-	-	_
916	Miscellaneous	104,000	93,673	10,327	-	-	-	-
926	Employee Pensions and Benefits	6,995,403 *	5,331,656	1,472,123	45,088	135,264	11,272	19,162
408	Payroll Taxes	2,108,178_*	1,606,781	443,648	13,588	40,764	3,397	5,775
Sub	total O & M Expenses	45,014,032	36,468,362	7,499,688	238,637	746,609	60,736	115,015

CALCULATION OF CUSTOMER COSTS PER BILL BY SERVICE CLASSIFICATION

		Cost of		_				
		Service	Rate R	Rate N	Rate DS	Rate LFD	Rate XD Firm	Interruptible
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Dep	preciation Expense							
380	Services	18,361,237	15,851,481	2,236,837	145,680	114,331	12,908	79,294
381	Meters	1,545,565	536,527	981,536	27,502	-	-	8,235
382	Meter Installations	1,570,413	545,152	997,317	27,944	-	-	8,368
383	House Regulators	402,170	139,609	255,405	7,156	-	-	2,143
384	House Regulator Installations	267,570	92,884	169,925	4,761	-	-	1,426
385	Industrial M & R Equipment	128,474	-	29,995	-	90,732	7,747	206
390	Structures and Improvements	686,526 *	555 ,813	114,065	3,712	11,924	1,012	1,800
391	Office Furniture And Equipment	3,890,321 *	3,403,191	454,232	9,847	21,252	1,799	4,983_
Subto	tal Depreciation	26,852,276	21,124,657	5,239,312	226,602	238,239	23,466	106,455
Rat	e Base							
380	Services	431,281,987	372,331,019	52,540,429	3,421,842	2,685,496	303,201	1,862,521
381	Meters	35,929,948	12,472,716	22,817,883	639,349	-	-	191,443
382	Meter Installations	41,818,318	14,516,804	26,557,386	744,128	-	-	222,818
383	House Regulators	5,706,646	1,981,004	3,624,096	101,546	-	-	30,406
384	House Regulator Installations	6,892,219	2,392,564	4,377,013	122,642	_	-	36,723
385	Industrial M & R Equipment	2,572,849	-	600,692	-	1,817,023	155,134	4,123
390	Structures And Improvements	9,991,022 *	8,088,750	1,659,986	54,023	173,529	14,734	26,193
391	Office Furniture and Equipment	49,540,412 *	43,911,710	5,348,988	100,029	165,697	13,988	51,626
	Deferred Taxes	(146,163,857) *	(113,693,240)	(29,736,573)	(1,320,943)	(1,290,223)	(122,878)	(614,392)
	Customer Deposits	(14,517,000)	(13,075,462)	(1,441,538)				
Sub	ototal Rate Base	423,052,544	328,925,865	86,348,362	3,862,616	3,551,522	364,179	1,811,461
Tax	es and Return							
@	12.3%	51,901,631	40,353,826	10,593,532	473,880	435,714	<u>44,679</u>	222,237
Total D	irect Customer Costs	\$ 123,767,938	\$ 97,946,845	\$ 23,332,532	\$ 939,119	\$ 1,420,562	\$ 128,881	\$ 443,707
Less:	JSP and EEC Recovery	9,015,112	8,125,794	393,673	90,181	405,463		
	Total	\$ 114,752,827	\$ 89,821,051	\$ 22,938,859	\$ 848,938	\$ 1,015,098	\$ 128,881	\$ 443,707
Numbe	r of bills	4,651,164	4,177,440	460,728	7,104	5,568	324	3,864
Direct	Costs per bill		\$ 21.50	\$ 49.79	\$ 119.50	\$ 182.31	\$ 397.78	\$ 114.83

^{*} Customer cost portion of account.

UGI UTILITIES, INC. - GAS DIVISION CALCULATION OF COSTS RELATED TO LFD AND XD DEMAND CHARGES

Capital Costs	LFD	XD
Depreciation	\$ 1,356,416	\$ 370,654
Taxes Other Than Income	194,436	73,698
Income Taxes	1,661,922	465,641
Income Available for Return	3,313,001	928,244
Total	\$ 6,525,775	\$ 1,838,237
Cost Per Month	\$ 543,815	\$ 153,186
Demand Volume Units per Month	73,215	103,283
Demand Costs per MCF	\$ 7.43	\$ 1.48

UGI UTILITIES, INC. - GAS DIVISION Docket No. R-2015-2518438

AS OF SEPTEMBER 30, 2017

(Average of Cost of Service Allocation Studies)

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC
Harrisburg, Pennsylvania

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COMPARISON OF COST OF SERVICE WITH REVENUES UNDER PRESENT AND PROPOSED RATES BY SERVICE CLASSIFICATION FOR THE TWELVE MONTHS ENDED SEPTEMBER 30, 2017 WITHOUT GAS COSTS

	Average	of	Pro Forma Margin Revenues,			Revenue Increase			
Service	Cost of Service	Studies	Under Present	Rates	Under Propose	d Rates		Percent	
Classification	Amount	Percent	Amount	Percent	Amount Percent		Amount	Increase	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Rate R	\$ 183,209,711	66.7%	\$ 108,668,733 *	50.3%	\$ 152,001,162	55.3%	\$ 43,332,429	39.9%	
Rate N	64,549,196	23.5%	55,100,277	25.5%	67,596,056	24.6%	12,495,779	22.7%	
Rate DS	7,086,431	2.6%	10,602,234	4.9%	11,583,714	4.2%	981,480	9.3%	
Rate LFD	11,383,433	4.1%	25,008,284	11.6%	26,762,521	9.7%	1,754,237	7.0%	
Rate XD Firm	3,421,615	1.2%	11,785,496	5.5%	11,785,496	4.3%	-	0.0%	
Interruptible	4,979,568	1.8%	4,900,000	2.3%	4,900,000	1.8%	<u> </u>	0.0%	
Total	\$ 274,629,954	99.9%	\$ 216,065,024	100.1%	\$ 274,628,950	99.9%	\$ 58,563,925	27.1%	
Other Operating Revenues	4,480,000		4,480,000		4,480,000		0		
Total	\$279,109,954		\$220 <u>,</u> 545,024		\$279,108,950		\$58,563,925	26.6%	

^{*} Includes GL.

DEVELOPMENT OF RATE OF RETURN BY SERVICE CLASSIFICATION UNDER PRESENT RATES

AVERAGE of

	Cost of						
ltem	Service Studies	Rate R	Rate N	Rate DS	Rate LFD	Rate XD	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Revenues From Tariff Sales							
and Transportation	\$ 216,065,024	\$ 108,668,733	\$ 55,100,277	\$ 10,602,234	\$ 25,008,284	\$ 11,785,496	\$ 4,900,000
2. Other Revenues	4,480,001	2,849,807	1,310,476	235,676	39,628	12,388	32,026
3. Total Operating Revenues	220,545,025	111,518,540	56,410,753	10,837,910	25,047,912	11,797,884	4,932,026
4. Less: Operating Expenses	164,798,592	112,876,869	36,807,363	3,951,974	6,245,088	2,003,327	2,913,971
5. Return and Income Taxes	55,746,433	(1,358,329)	19,603,390	6,885,936	18,802,824	9,794,557	2,018,055
6. Less: Interest Expense	20,044,000	12,751,993	5,135,273	649,426	883,940	256,563	366,805
7. Taxable Income	35,702,433	(14,110,322)	14,468,117	6,236,510	17,918,884	9,537,994	1,651,250
8. Less: Income Taxes	13,962,000	(5,519,179)	5,657,402	2,439,161	7,007,528	3,730,646	646,441
9. Net Return (Ln 5 - Ln 8)	41,784,433	4,160,850	13,945,988	4,446,775	11,795,296	6,063,911	1,371,614
10. Original Cost Measure of Value (Factor 15.)	923,476,350	587,567,225	236,607,199	29,918,200	40,722,880	11,790,871	16,869,975
11. Rate of Return, Percent	4.52%	0.71%	5.89%	14.86%	28.96%	51.43%	8.13%
12. Relative Rate of Return	1.00	0.16	1.30	3.28	6.40	11.37	1.80

DEVELOPMENT OF RATE OF RETURN BY SERVICE CLASSIFICATION UNDER PROPOSED RATES

AVERAGE of	
04-8	

	Cost of						
item	Service Studies	Rate R	Rate N	Rate DS	Rate LFD	Rate XD-Firm	Interruptible
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Revenues From Tariff Sales							
and Transportation	\$ 274,628,950	\$ 152,001,162	\$ 67,596,056	\$ 11,583,714	\$ 26,762,521	\$ 11,785,496	\$ 4,900,000
2. Other Revenues	4,480,001	2,845,252	1,313,241	236,509	40,123	12,355	32,521
3. Total Operating Revenues	279,108,951	154,846,414	68,909,297	11,820,223	26,802,644	11,797,851	4,932,521
4. Less. Operating Expenses	165,785,954	113,935,153	36,809,480	3,799,352	6,326,312	1,994,755	2,920,902
5. Return and Income Taxes	113,322,997	40,911,261	32,099,817	8,020,871	20,476,332	9,803,096	2,011,619
6. Less: Interest Expense	20,044,000	12,756,002	5,139,282	623,368	899,976	256,563	368,810
7. Taxable Income	93,278,997	28,155,259	26,960,535	7,397,503	19,576,356	9,546,533	1,642,809
8. Less: Income Taxes	37,857,000	11,429,028	10,940,673	3,002,060	7,946,184	3,872,771	666,283
9. Net Return (Ln 5 - Ln 8)	75,465,997	29,482,233	21,159,144	5,018,811	12,530,148	5,930,325	1,345,336
10. Original Cost Measure of Value (Factor 15.)	923,709,065	587,934,654	236,847,425	28,718,618	41,467,208	11,780,795	16,960,365
11. Rate of Return, Percent	8.17%	5.01%	8.93%	17.48%	30.22%	50.34%	7.93%
12. Relative Rate of Return	1.00	0.61	1.09	2.14	3.70	6.16	0.97