David A. Heintz Vice President

Mr. Heintz is a Vice President who has over 30 years of experience working with regulated rates and tariffs at both the federal and state levels. He also provides clients with analyses of natural gas projects, markets, and issues. Mr. Heintz's areas of expertise include cost of service, allocation and rate design, tariff terms and conditions, rate case preparation, and regulatory issues.

REPRESENTATIVE PROJECT EXPERIENCE

Regulatory Analysis, Ratemaking, Cost of Service

- Prepared electric cost of service studies for Eversource Energy East (NSTAR Electric) and West (Western Massachusetts Electric Company)
- Prepared gas cost of service study for Eversource Energy (NSTAR Gas)
- Prepared electric and gas class cost of service studies for New York State Electric and Gas and Rochester Gas and Electric Companies
- Prepared class cost of service study for Green Mountain Power Company
- Cash Working Capital witness for Ameren Illinois Company in its 2009, 2011, 2012 and 2013 Illinois rate filings.
- Assisted a customer group served by Dominion Cove Point LNG in a FERC rate proceeding, Docket No. RP11-2136.
- Prepared a cost of service study for Virginia Natural Gas, Case No. PUE-2011-00142.
- Assisted a customer group served by Tennessee Gas Pipeline Company in a FERC rate proceeding, Docket No. RP11-1566.
- Filed testimony on the proper design of Kern River Gas Transmission Period Two rates in Docket RP04-274-023 on behalf of a Kern River shipper.
- Prepared a cost of service study for Atlanta Gas Light Company, Docket No. 31647-U.
- Project manager for preparation of Granite State Gas Transmission FERC rate filing, Docket No. RP10-896. Witness on issues of billing determinants, revenues, cost allocation and rate design.
- Participated in the development of a gas cost of service and rate re-redesign for Northern Indiana Public Service Company.
- Assisted a customer group served by Southern Natural Gas Company in a FERC rate proceeding.
- Assisted ISO-NE in the evaluation of de-list bids and new capacity offers for the first two Forward Capacity Auctions conducted by ISO-NE.
- Prepared a cost of service study and rate design proposals for National Grid Rhode Island (Gas).
- Prepared cost of service studies for New England Gas Company in three Massachusetts rate filings.
- Assist New England Gas in the preparation of periodic filings before the Massachusetts Department of Public Utilities including Gas Cost and Local Distribution Adjustment filings.
- Prepared cost of service studies for Connecticut Natural Gas Corporation and Southern Connecticut Gas Company in their Phase 2 rate design proceeding before the Connecticut Department of Public Utility Control.
- Prepared a cost of service study and rate design proposals for Northwest Natural Gas Company (WA) which included the phase out a commercial rate class.

- Prepared a cost of service study for Puget Sound Energy and assisted in the development of a revenue decoupling mechanism.
- Prepared cost of service studies for Peoples Gas Light and Coke Company and North Shore Gas Company. Assisted in the development of a revenue decoupling mechanism for these companies.
- Performed a cost of service study for Arkansas Oklahoma Gas Corporation. Provided testimony on cost of service and rate design.
- Participated in a review of the cost of service and rate design methodologies for the natural gas transmission affiliate of a Canadian Crown Corporation.
- Performed an electric cost of service and rate review for the City of Vero Beach, Florida.
- Performed a cost of service study for Chesapeake Utility Corporation, Delaware Division, and provided testimony on rate design issues.
- Performed cost of service and rate design studies integrating the rates and tariffs of Providence Gas Company and Valley Gas Company. Provide testimony on cost of service and proposed new rate designs for the integrated company.
- Performed cost of service study for an investor owned Canadian electric utility.
- Assisted a Canadian marketing company in its intervention in Northern Border Pipeline Company FERC rate proceeding. Filed testimony on various cost-of-service and rate design issues.
- Assisted an Indiana local distribution company in the preparation of a general rate case and unbundling filing. Assisted in the development of the proposed unbundled services and tariffs.
- Assisted a New Jersey local distribution company with its initial filing under New Jersey's Electric Discount and Energy Competition Act.
- Assisted a major Southwest utility in the preparation of a cost of service and rate design study for filing with the regulatory commission.
- Reviewed and evaluated an electric cost-of-service and unbundling model for the Ontario Energy Board. This model is to be used by the municipal electric utilities in their filings to the Board.
- Assisted a group of Midwest local distribution companies served by Northern Natural Gas Company in a FERC rate proceeding. Filed testimony on various cost-of-service and rate design issues.
- Reviewed the rate harmonization proposal of a major Canadian gas utility for potential shortcomings alternative approaches.
- Responsible for the development, defense, implementation and administration of the Boston Gas Company's rates in rate cases and CGA filings. Prepared annual sales, revenue, margin and gas cost forecasts for budgeting and financial reporting. Directed the company's load research project. Represented the company in regulatory proceedings.
- Responsible for all aspects of United Gas Pipeline Company's rate department, including cost-ofservice allocation and rate design, certificates and analysis of other pipeline FERC filings. Represented the company and supported its positions through testimony and negotiations with regulatory agencies, customers and intervenors.
- Responsible for the development of cost-of-service, allocation and rate design studies and filings for Consolidated Natural Gas Company. Analyzed supplier rate and certificate filings. Represented the company and supported its position in negotiations with regulatory agencies, customers and intervenors.
- Responsible for the development and support of FERC staff's position on allocation and rate design issues in pipeline rate and certificate filings.

Valuation and Appraisal

Assisted in the preparation of a report to the FERC on appraised value and insurance recommendations in a certificate proceeding.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities Docket No. DG 17-048 Attachment DAH-1 Page 3 of 3

Market Analysis

Assisted the Province of New Brunswick in the preparation of its Stage I document for the establishment of natural gas distribution within the Province.

Expert Witness Testimony Presentation

- Federal Energy Regulatory Commission
- Arkansas Public Service Commission
- Connecticut Department of Public Utility Control
- Delaware Public Service Commission
- Georgia Public Service Commission
- Idaho Public Utilities Commission
- Illinois Commerce Commission
- Massachusetts Department of Public Utilities
- New York State Public Service Commission
- New Jersey Board of Public Utilities
- Pennsylvania Public Utility Commission
- State of Rhode Island and Providence Plantations Public Utility Commission
- Washington Utilities and Transportation Commission

PROFESSIONAL HISTORY

Concentric Energy Advisors, Inc. (2006 – Present) Vice President Assistant Vice President

Navigant Consulting (1998 - 2006)

Senior Engagement Manager

Boston Gas Company (1993 – 1998) Director, Rates and Revenue Analysis

United Gas Pipeline Company (1992 – 1993) Director, Rates and Regulatory Affairs

Consolidated Natural Gas Company (1985 – 1992)

Manager, Regulatory Projects

Federal Regulatory Energy Commission (1979 – 1985) Industry Economist, Allocation and Rate Design Branch

EDUCATION

M.B.A., Katz Graduate School of Business, University of Pittsburgh, 1989 B.S., Economics, Behrend College, Pennsylvania State University, 1978

FUNCTIONAL COST STUDY SUMMARY OF RESULTS

Line

No.	Description	5	System Total	Delivery Costs	Dir	ect Gas Costs	LPG & LNG		Misc	I	Production Costs
	(A)		(B)	 (Č)		(D)	(E)		(F)		(G)
	Rate Base										
1	Plant in Service	\$	480,183,923	\$ 465,529,818	\$	- 9	\$ 14,654,10	4 \$	-	\$	14,654,104
2	Accumulated Reserve		(158,732,601)	(149,518,456)		-	(9,214,14	5)	-		(9,214,145
3	Other Rate Base Items		(69,422,638)	(67,316,474)		-	(2,134,57	1)	28,408		(2,106,164
4	Total Rate Base	\$	252,028,683	\$ 248,694,888	\$	- (\$ 3,305,38		28,408	\$	3,333,796
	Revenues at Current Rates										
5	Sales Revenue	\$	70,681,266	\$ 70,681,266	\$	-	\$	- \$	-	\$	-
6	Miscellaneous Revenues		881,259	874,655		-	4,35	7	2,247		6,604
7	Total Revenues	\$	71,562,525	\$ 71,555,921	\$	- :	\$ 4,35		2,247	\$	6,604
	Expenses at Current Rates										
8	Operations & Maintenance Expenses	\$	30,577,282	\$ 30,627,593	\$	- 9	\$ (474,42	7)\$	424,117	\$	(50,310
9	Depreciation Expense		17,713,892	17,085,899		-	621,78	9	6,204		627,993
10	Taxes Other Than Income Taxes		10,895,009	10,544,993		-	350,01	5	-		350,016
11	Total Expenses - Current	\$	59,186,183	\$ 58,258,485	\$	- :	\$ 497,37	7 \$	430,321	\$	927,698
12	Total Income Taxes	\$	2,157,769	\$ 2,556,747	\$	- :	\$ (229,96	3) \$	(169,010)	\$	(398,978
13	Current Operating Income	\$	10,218,573	\$ 10,740,689	\$	- :	\$ (263,05	3)\$	(259,064)	\$	(522,117
14	Return at Current Rates		4.05%	 4.32%		0.00%	-7.96	%	-911.95%		-15.66%
15	Index Rate of Return		1.00	 1.07		-	(1.9	6)	(224.92)		(3.86
	Revenue Requirement at Equal Rates of Retur	n									
16	Required Return		7.36%	7.36%		7.36%	7.36	%	7.36%		7.36%
17	Required Operating Income	\$	18,549,311	\$ 18,303,944	\$	- 9	\$ 243,27	7 \$	2,091	\$	245,367
18	Operating Income (Deficiency)/Surplus	\$	(8,330,738)	\$ (7,563,254)	\$	- (\$ (506,32	9)\$	(261,155)	\$	(767,484
	Expenses at Required Return										
19	Operations & Maintenance Expenses	\$	30,577,282	\$ 30,627,593	\$	- 9	\$ (474,42	7)\$	424,117	\$	(50,310
20	Depreciation Expense		17,713,892	17,085,899		-	621,78	9	6,204		627,993
21	Taxes Other than Income		10,895,009	10,544,993		-	350,01	6	-		350,016
22	Interest on Customer Deposits		-	-		-		-	-		-
23	Total Expenses Required	\$	59,186,183	\$ 58,258,485	\$	- :	\$ 497,37	7 \$	430,321	\$	927,698
24	Income Taxes	\$	7,576,393	\$ 7,476,170	\$	- :	\$ 99,36	7\$	855	\$	100,223
25	Total Revenue Requirement at Equal Return	\$	85,311,887	\$ 84,038,599	\$	- {	\$ 840,02	1\$	433,267	\$	1,273,288
26	Revenue (Deficiency)/Surplus	\$	(13,749,362)	\$ (12,482,678)	\$	- 5	\$ (835,66	1) \$	(431,020)	\$	(1,266,684)

FUNCTIONAL COST STUDY INDIRECT COSTS

Line No.	Description	l	-PG & LNG Costs	F	Misc. Production Costs		ad Debts cl. LPG & LNG	V	as Cost /orking Capital	Т	otal Indirect Costs
	(A)		(B)		(C)		(D)		(E)		(F)
	Summary of Results at Present Rates										
	Rate Base										
1	Gas Plant in Service	\$	14,654,104	\$	-	\$	-	\$	-	\$	14,654,104
2	Accumulated Reserve	•	(9,214,145)	•	-	•	-	•	-	•	(9,214,145)
3	Net Utility Plant in Service	\$	5,439,959	\$	-	\$	-	\$	-	\$	5,439,959
	Other Rate Base Items:										
4	Materials & Supplies	\$	209,810	\$	-	\$	-	\$	-	\$	209,810
5	Working Capital		(9,765)		28,408		-		-		18,643
6	Prepayments		82,532		-		-		-		82,532
7	Accumulated Deferred Income Taxes		(2,417,149)		-		-		-		(2,417,149)
8	Total Rate Base	\$	3,305,388	\$	28,408	\$	-	\$	-	\$	3,333,796
	Revenues										
9	Total Sales Revenue	\$	-	\$	-	\$	-	\$	-	\$	-
10	Other Operating Revenues		4,357		2,247		-		-		6,604
11	Total Operating Revenues	\$	4,357	\$	2,247	\$	-	\$	-	\$	6,604
	Expenses										
12	Purchased Gas Costs	\$	-	\$	-	\$	-	\$	-	\$	-
13	Other O&M excl. Uncollectible		(489,249)		416,472		-		-		(72,777)
14	Uncollectible Expense		14,822		-		7,645		-		22,466
15	Depreciation Expense		621,789		6,204		-		-		627,993
16	Other Taxes		350,016		-		-		-		350,016
17	Income Taxes		(229,968)		(165,997)		(3,013)		-		(398,978)
18	Total Operating Expenses	\$	267,409	\$	256,679	\$	4,632	\$	-	\$	528,720
19	Operating Income	\$	(263,053)	\$	(254,432)	\$	(4,632)	\$	-	\$	(522,117)
20	Rate of Return		-7.96%		-895.65%		0.00%		0.00%		-15.66%
21	Index Rate of Return		1.00		112.54		-		-		1.97
22	Net Revenues	\$	-	\$	-	\$	-	\$	-	\$	-

175

FUNCTIONAL COST STUDY INDIRECT COSTS

Line No.	Description	L	PG & LNG Costs	Р	Misc. roduction Costs		ad Debts cl. LPG & LNG	V	as Cost /orking Capital	Т	otal Indirect Costs
	(A)		(B)		(C)		(D)		(E)		(F)
	Summary of Results at Claimed Rates										
	Rate Base										
1	Gas Plant in Service	\$	14,654,104	\$	-	\$	-	\$	-	\$	14,654,104
2	Accumulated Reserve		(9,214,145)		-		-		-		(9,214,145)
3	Net Utility Plant in Service	\$	5,439,959	\$	-	\$	-	\$	-	\$	5,439,959
	Other Rate Base Items:										
4	Materials & Supplies	\$	209,810	\$	-	\$	-	\$	-	\$	209,810
5	Working Capital	\$	(9,765)	\$	28,408	\$	-	\$	-	\$	18,643
5	Prepayments	•	82,532	•		•	-	•	-	•	82,532
6	Accumulated Deferred Income Taxes		(2,417,149)		-		-		-		(2,417,149)
7	Total Rate Base	\$	3,305,388	\$	28,408	\$	-	\$	-	\$	3,333,796
8	Required Rate of Return		7.36%		7.36%		7.36%		7.36%		7.36%
9	Required Operating Income	\$	243,277	\$	2,091	\$	-	\$	-	\$	245,367
	Expenses										
10	Purchased Gas Costs	\$	-	\$	-	\$	-	\$	-	\$	-
11	Other O&M excl. Uncollectible		(489,249)		416,472		-		-		(72,777)
12	Uncollectible Expense		14,822		-		7,645		-		22,466
13	Depreciation Expense		621,789		6,204		-		-		627,993
14	Other Taxes		350,016		-		-		-		350,016
15	Total Expenses Required	\$	497,377	\$	422,676	\$	7,645	\$	-	\$	927,698
16	Income Taxes		99,367		856		(0)		-	\$	100,223
17	Total Rev.Req. at Required Return	\$	840,021	\$	425,622	\$	7,645	\$	-	\$	1,273,288
	Revenues										
18	Total Sales Revenue	\$	835,664	\$	423,375	\$	7,645	\$	-	\$	1,266,684
19	Other Operating Revenues	•	4,357		2,247		-	·	-		6,604
20	Total Operating Revenues	\$	840,021	\$	425,622	\$	7,645	\$	-	\$	1,273,288

Docket No.DG17-048 Attachment DAH-3 Page 1 of 14

Mount Alloc. Factor 14,745,889 LABOR 14,745,889 LABOR 14,745,889 DPROD 335,421 DPROD_K 14,361,658 DIST 623,659 DIST 231,079,452 DIST 147,512,755 CUST 20,781,525 CUST 986,277 DIST 420,465,832 16,806	DEM 7,130,370 7,130,370 1,220,283 335,421 1,555,703 197,931 623,659 231,079,452 4,924,228 	CUS 7,014,665 7,014,665 - - - - - - - - - - - - - - - - - -	СОМ - - - - - - - - - - - - - - - - - - -	TOTAL 14,145,035 14,145,035 1,220,283 335,421 1,555,703 197,931 623,659 231,079,452 4,924,228 147,512,755 20,781,525 14,360,025 986,277 420,465,832	DEM	CUS	COM	TOTAL
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420,465,832 16,806 LABOR	237,811,547	182,654,285	-		-	-		
							-	
	8,127	7,995		16,121	-	-	-	
22,126,395 LABOR	10,699,211	10,525,594	-	21,224,805	-	-	-	
2,911,316 LABOR	1,407,766	1,384,922	-	2,792,688	-	-	-	
2,750,151 LABOR	1,329,835	1,308,255	-	2,638,090	-	-	-	
99,421 LABOR	48,075	47,295	-	95,370	-	-	-	
1,148,344 LABOR	555,281	546,271	-	1,101,552	-	-	-	
- LABOR	-	-	-	-	-	-	-	
726,968 LABOR	351,525	345,821	-	697,346	-	-	-	
477,578 LABOR	230,933	227,185	-	458,118	-	-	-	
353,566 LABOR	170,967	168,192		339,159	-	-	-	
30,610,544	14,801,718	14,561,530	-	29,363,248	-	-	-	
480,183,923	261,299,339	204,230,480	-	465,529,818	-	-	-	
(4,975,703) LABOR	(2,406,000)	(2,366,957)	-	(4,772,957)	-	-	-	
(4,975,703)	(2,406,000)	(2,366,957)	-	(4,772,957)	-	-	-	
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			-		-	_	-	
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	(377 799)	(2,010,004)			-	_	-	
(2,750,151 LABOR 99,421 LABOR - LABOR 726,968 LABOR 353,566 LABOR 30,610,544 480,183,923 (4,975,703) LABOR (4,975,703) LABOR (4,975,703) DPROD (188,851) DPROD_K	2,750,151 LABOR 1,329,835 9,421 LABOR 440,075 1,148,344 LABOR 555,281 - LABOR 555,281 - LABOR 351,525 477,578 LABOR 230,933 353,566 LABOR 170,967 30,610,544 14,801,718 480,183,923 261,299,339 (4,975,703) LABOR (2,406,000) (9,579,080) DPROD (833,380) (188,851) DPROD (833,380) (188,851) DPROD (188,851) (9,767,932) (1,022,231) - 0 - (455,849) DIST (455,849) (55,119,021) DIST (1,898,257) (66,914,257) CUST - (10,159,323) CUST - (2,510,364) CUST - - 0	2,750,151 LABOR 1,329,835 1,308,255 9,9,421 LABOR 48,075 47,295 1,148,344 LABOR 555,281 546,271 - LABOR 351,525 346,271 726,968 LABOR 3351,525 345,821 477,578 LABOR 230,933 2227,185 353,566 LABOR 170,967 168,192 30,610,544 14,801,718 14,561,530 480,183,923 261,299,339 204,230,480 (4,975,703) LABOR (2,406,000) (2,366,957) (4,975,703) (2,406,000) (2,366,957) (4,975,703) (2,406,000) (2,366,957) (9,579,080) DPROD (833,380) - (188,851) DPROD (833,380) - (188,851) DPROD K (188,851) - (9,767,932) (1,022,231) - - 0 - 0 - 0 - 0 - (455,849) DIST (55,119,021) - (1,898,257) DIST (1,898,257) - (66,914,257) CUST - (10,159,323) CUST - (2,510,354) CUST - (2,510,354) CUST - (2,510,354) CUST - (2,510,354)	2,750,151 LABOR 1,329,835 1,308,255 - 99,421 LABOR 48,075 47,295 - 1,148,34 LABOR 555,281 546,271 - LABOR 351,525 345,821 - 726,968 LABOR 230,933 227,185 - 353,566 LABOR 170,967 168,192 - 30,610,544 14,801,718 14,561,530 - 480,183,923 261,299,339 204,230,480 - (4,975,703) LABOR (2,406,000) (2,366,957) - (4,975,703) LABOR (2,406,000) (2,366,957) - (4,975,703) (2,406,000) (2,366,957) - (9,579,080) DPROD (833,380) - (188,851) DPROD (833,380) - (188,851) DPROD K (188,851) - (188,851) DPROD K (188,851) - (1,88,851) DPROD K (188,851) - (1,86,849) DIST (455,849) - (1,976,7932) (1,022,231) - - 0 - (455,849) DIST (1,898,257) - (66,914,257) DIST (1,898,257) - (10,159,323) CUST - (10,159,323) CUST - (2,510,354) CUST - (2,5	2,750,151 LABOR 1,329,835 1,308,255 - 2,638,090 9,421 LABOR 48,075 47,295 - 95,370 1,148,344 LABOR 555,281 546,271 - 1,101,552 - LABOR 351,525 345,821 - 697,346 477,578 LABOR 230,933 227,185 - 468,118 353,566 LABOR 170,967 168,192 - 339,159 30,610,544 14,801,718 14,561,530 - 29,363,248 180,183,923 261,299,339 204,230,480 - 465,529,818 (4,975,703) LABOR (2,406,000) (2,366,957) - (4,772,957) (4,975,703) (2,406,000) (2,366,957) - (4,772,957) (9,579,080) DPROD (833,380) - (833,380) (188,851) DPROD (833,380) - (188,851) (9,676,932) (1,022,231) - (1,188,851) (9,676,932) (1,022,231) - (1,188,257) - 0 - (455,849) - (4,55,119,021) - 0 - (1,022,231) - (1,189,257) - (1,198,257) DIST (1,598,257) - (1,198,257) (10,159,323) CUST - (10,159,323) - (10,159,323) (2,510,354) CUST - (2,510,354) - (2,510,354)	2,750,151 LABOR 1,329,835 1,309,255 - 2,638,090 - 99,421 LABOR 48,075 47,295 - 95,370 - 1,148,34 LABOR 555,281 546,271 - 1,101,552 - - LABOR 351,525 345,821 - 697,346 - - 3726,968 LABOR 230,933 227,185 - 458,118 - - 353,566 LABOR 170,967 168,192 - 339,159 - - 360,610,544 14,801,718 14,561,530 - 29,363,248 - - (4,975,703) LABOR (2,406,000) (2,366,957) - (4,772,957) - (4,975,703) LABOR (2,406,000) (2,366,957) - (4,772,957) - (9,579,080) DPROD (833,380) - - (833,380) - - (188,851) - - 0 - - - (1,022,231) - - (1,022,231) - -	2,750,151 LABOR 1,329,835 1,308,255 - 2,638,090	2,750,151 LABOR 1,329,835 1,308,255 - 2,638,090

Docket No.DG17-048 Attachment DAH-3 Page 2 of 14

			LPG 8				Mis	c	
Account Description	Amount Alloc.	Factor DEM	CUS	СОМ	TOTAL	DEM	CUS	СОМ	TOTAL
RATE BASE									
Plant in Service									
Intangible Plant Misc. Intangible Plant	14,745,889 LABOR	600,854			600,854				
Sub-total	14,745,889 LABOR 14,745,889	600,854 600,854	-	-	600,854	-	-	-	-
Production Plant									
Production Plant EN	14,026,237 DPROD	12,805,954	-	-	12,805,954	-	-	-	-
Production Plant Keene	335,421 DPROD	_К -	-	-	-	-	-	-	-
Sub-total	14,361,658	12,805,954	-	-	12,805,954	-	-	-	-
Distribution Plant									
Land & Land Rights	197,931 DIST	-	-	-	-	-	-	-	-
M&R Stations	623,659 DIST	-	-	-	-	-	-	-	-
Mains	231,079,452 DIST	-	-	-	-	-	-	-	-
Compressor Station Equipment Services	4,924,228 DIST 147,512,755 CUST	-	-	-	-	-	-	-	-
Meters & Meter Installations	20,781,525 CUST	_			-			-	
Meters Installations	14,360,005 CUST	-	-	-	-	-	-	-	-
Other Equipment	986,277 DIST	-	-	-	-	-	-	-	-
Sub-total	420,465,832	-	-	-	-	-	-	-	-
General Plant									
Land & Land Rights	16,806 LABOR	685	-	-	685	-	-	-	-
Structures & Improvements	22,126,395 LABOR		-	-	901,590	-	-	-	-
Office Furniture & Equipment	2,911,316 LABOR		-	-	118,628	-	-	-	-
Transportation Equipment	2,750,151 LABOR		-	-	112,061	-	-	-	-
Stores Equipment Tools, Shop & Garage Equip.	99,421 LABOR 1,148,344 LABOR		-	-	4,051 46,792	-		-	-
Laboratory Equip.	- LABOR				40,732			-	
Power Operated Equip.	726,968 LABOR		-		29,622	-		-	-
Communication Equip.	477,578 LABOR		-	-	19,460	-	-	-	-
Miscellaneous Equip.	353,566 LABOR		-	-	14,407	-	-	-	-
Sub-total	30,610,544	1,247,295	-	-	1,247,295	-	-	-	-
TOTAL PLANT-IN-SERVICE	480,183,923	14,654,104	-	-	14,654,104	-	-	-	-
Accumulated Reserve for Depreciation									
Intangible Plant									
Misc. Intangible Plant	(4,975,703) LABOR	(202,746)		_	(202,746)			_	_
Sub-total	(4,975,703)	(202,746)	-	-	(202,746)	-	-	-	-
Production Plant									
Production Plant	(9,579,080) DPROD	(8,745,700)			(8,745,700)			_	
Production Plant Keene	(188,851) DPROD		-	-	-	-	-	-	-
Sub-total	(9,767,932)	(8,745,700)	-	-	(8,745,700)	-	-	-	-
Distribution Plant									
Land & Land Rights	-	0 -	-	-	-	-	-	-	-
M&R Stations	(455,849) DIST	-	-	-	-	-	-	-	-
Mains	(55,119,021) DIST	-	-	-	-	-	-	-	-
Compressor Station Equipment Services	(1,898,257) DIST (66,914,257) CUST	-	-	-	-	-	-	-	-
Services Meters	(66,914,257) CUST (10,159,323) CUST		-	-	-	-	-	-	-
Meter Installations	(2,510,354) CUST	-	-	-	-	-	-	-	-
Other Equipment	(377,799) DIST	-	-	-	-	-	-	-	-

Docket No.DG17-048 Attachment DAH-3 Page 3 of 14

				Delivery Co	osts			Direct Ga	s Costs	
Account Description	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	СОМ	TOTAL
General Plant										
Land & Land Rights	-	0	-		-	-	-	-	-	
Structures & Improvements	(3,369,744)	LABOR	(1,629,438)	(1,602,997)	-	(3,232,436)	-	-	-	-
Office Furniture & Equipment	(510,622)		(246.911)	(242,905)	-	(489,816)	-	-	-	-
Transportation Equipment	(807,510)		(390,471)	(384,135)	-	(774,606)		-		
Stores Equipment	(28,007)	LABOR	(13,543)	(13,323)	-	(26,866)	-	-	-	
Tools, Shop & Garage Equip.	(641,731)		(310,309)	(305,273)	-	(615,582)		-		
Laboratory Equip.	-	LABOR	-	-	-	-	-	-	-	
Power Operated Equip.	(665,676)	LABOR	(321,887)	(316,664)	-	(638,551)		-		
Communication Equip.	(240,750)	LABOR	(116,415)	(114,526)	-	(230,940)	-	-	-	
Miscellaneous Equip.	(156,784)		(75,813)	(74,582)	-	(150,395)		-		
Other	(133,284)	PLANT	(72,529)	(56,688)	-	(129,216)	-	-	-	
Sub-total	(6,554,108)		(3,177,316)	(3,111,094)	-	(6,288,409)	-	-	-	-
				· · · · ·		····				
TOTAL DEPRECIATION ACCRUAL	(158,732,601)		(64,456,472)	(85,061,984)	-	(149,518,456)	-	-	-	-
NET PLANT	321,451,321		196,842,867	119,168,495	-	316,011,362	-	-	-	-
Rate Base Adjustments										
Additions										
Gas Materials and Supplies	6.948.817	PDGPLT	3,794,648	2,944,359	-	6,739,007	-	-	-	-
Cash Working Capital (Other)	2,725,860	OMEXPX	1,437,916	1,239,765	29,536	2,707,217		-		
Prepayments	2,733,433	PDGPLT	1,492,688	1,158,213	-	2,650,901		-		
Sub-total	12,408,110		6,725,253	5,342,336	29,536	12,097,125	-	-	-	-
Deductions										
Customer Deposits	(1,775,750)	CUST	_	(1,775,750)	_	(1,775,750)	_	_		
Accum. Deferred Income Taxes	(80,054,998)		(43,716,875)	(33,920,975)	_	(77,637,849)		_	-	_
Sub-total	(81,830,748)	IDOILI	(43,716,875)	(35,696,725)	-	(79,413,599)	_			-
	(01,000,140)		(40,110,010)	(00,000,720)		(10,410,000)				
TOTAL RATE BASE ADJ.	(00,400,000)		(20,004,000)	(20.254.200)	29,536	(67,316,474)				
I UTAL RATE DASE ADJ.	(69,422,638)		(36,991,622)	(30,354,388)	29,536	(07,310,474)	-	-	-	-
TOTAL RATE BASE	252,028,683		159,851,244	88,814,107	29,536	248,694,888	-	-	-	-

Docket No.DG17-048 Attachment DAH-3 Page 4 of 14

				LPG a	LNG		Misc					
Account Description	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL		
General Plant												
Land & Land Rights		- 0	-	-	-	-	-	-	-	-		
Structures & Improvements	(3.369.74	4) LABOR	(137,308)	-	-	(137,308)	-	-	-	-		
Office Furniture & Equipment		2) LABOR	(20,806)	-	-	(20,806)	-	-	-	-		
Transportation Equipment) LABOR	(32,904)	-	-	(32,904)	-	-	-	-		
Stores Equipment	(28,00)	7) LABOR	(1,141)	-	-	(1,141)	-	-	-	-		
Tools, Shop & Garage Equip.	(641,73	1) LABOR	(26,149)	-	-	(26,149)	-	-	-	-		
Laboratory Equip.		- LABOR	-	-	-	-	-	-	-	-		
Power Operated Equip.	(665,676	6) LABOR	(27,124)	-	-	(27,124)	-	-	-	-		
Communication Equip.	(240,750) LABOR	(9,810)	-	-	(9,810)	-	-	-	-		
Miscellaneous Equip.	(156,784	4) LABOR	(6,389)	-	-	(6,389)	-	-	-	-		
Other	(133,284	4) PLANT	(4,068)	-	-	(4,068)	-	-	-	-		
Sub-total	(6,554,10	B)	(265,698)	-	-	(265,698)	-	-	-	-		
TOTAL DEPRECIATION ACCRUAL	(158,732,60	1)	(9,214,145)	-	-	(9,214,145)	-	-	-	-		
NET PLANT	321,451,32	1	5,439,959	-	-	5,439,959	-	-	-	-		
Rate Base Adjustments												
Additions												
Gas Materials and Supplies	6 948 81	7 PDGPLT	209,810	-		209,810	-	-	-	-		
Cash Working Capital (Other)		OMEXPX	125,252	-	(135,016)	(9,765)	-	-	28,408	28,408		
Prepayments		B PDGPLT	82,532		(;;)	82,532	-	-				
Sub-total	12,408,110		417,594	-	(135,016)	282,577	-	-	28,408	28,408		
Deductions												
Customer Deposits	(1,775,750)) CUST		-			-	-	-	-		
Accum, Deferred Income Taxes	(80,054,998		(2,417,149)	-		(2,417,149)	-	-	-	_		
Sub-total	(81,830,74		(2,417,149)	-	-	(2,417,149)		-	-	-		
	(01,000,74	<i>.</i> ,	(2,417,140)			(2,417,140)						
TOTAL RATE BASE ADJ.	(69,422,63)	8)	(1,999,555)	-	(135,016)	(2,134,571)	-	-	28,408	28,408		
	050 000 00		2 440 404		(425.040)	2 205 200			20,400	00,400		
TOTAL RATE BASE	252,028,683	5	3,440,404	-	(135,016)	3,305,388	-	-	28,408	28,408		

Docket No.DG17-048 Attachment DAH-3 Page 5 of 14

			Delivery Co	osts			Direct Ga	is Costs	
Account Description	Amount Alloc. Factor	DEM	CUS	СОМ	TOTAL	DEM	CUS	СОМ	TOTAL
EXPENSES									
O & M Expenses									
Production (LPG LNG) - Operation									
Supervision	333,238 DPROD	28,992	-	-	28,992	-	-	-	-
LPG - Production	263,598 DPROD	22,933	-	-	22,933	-	-	-	-
LPG - Materials	46,178 DPROD	4,017	-	-	4,017	-	-	-	-
Gas Mixing & Misc Exp - Keene	(23,701) DPROD_K	(23,701)	-	-	(23,701)	-	-	-	-
Misc. Prod. Exp.	388,258 DPROD	33,778	-	-	33,778	-	-	-	-
Operation Labor & Expenses	2,543 DPROD	221 374	-	-	221 374	-	-	-	-
Other	4,296 DPROD	374	-	-	374	-	-	-	-
Indirect Expenses	(1,992,581) INDIRECT	-	-	-	-	-	-	-	-
Sub-total	(978,172)	66,615	-	-	66,615	-	-	-	-
Production (LPG LNG) - Maintenance									
Maint. of Prod. Equip	72,133 DPROD	6,276	-	-	6,276	-	-	-	-
Sub-total	72,133	6,276	-	-	6,276	-	-	-	-
Total Production	(906,039)	72,890	-	-	72,890	-	-	-	-
Durahasad Ose Fursuese									
Purchased Gas Expenses	010007								
Gas Supply	- GASCOST - GASCOST	-	-	-	-	-	-	-	-
Storage Gas		-	-	-	-	-	-	-	-
Other Gas Supply Sub-total	- GASSPLY	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-
Distribution Operation Expenses									
Operation Supervision & Engineering	1,725,207 DISTOPX	1,333,485	391,722	-	1,725,207	-	-	-	-
Distribution Load Dispatch	252,649 DIST	252,649		-	252,649	-	-	-	-
Mains & Services Expenses	4,899,898 DIST	4,899,898	-	-	4,899,898	-	-	-	-
M&R Station Expenses - General	160,140 DIST	160,140	-	-	160,140	-	-	-	-
M&R Station Expenses - Industrial	14,536 DIST	14,536	-	-	14,536	-	-	-	-
Meter & House Regulator Expenses	1,800,052 CUST	-	1,800,052	-	1,800,052	-	-	-	-
Customer Installation Expenses	58,893 CUST	-	58,893	-	58,893	-	-	-	-
Other Expenses	988,828 DIST	988,828	-	-	988,828	-	-	-	-
Rents	12,098 DIST	12,098	-	-	12,098	-	-	-	-
Sub-total	9,912,299	7,661,633	2,250,667	-	9,912,299	-	-	-	-
Distribution Maintenance Expenses									
Maint. Supervision & Engineering	- DISTMNX	-		-	-	-	-		-
Maint. of Structures & Improv.	123,257 DIST	123,257		-	123,257	-	-	-	-
Maint. of Mains	1,673,937 DIST	1,673,937	-	-	1,673,937	-	-	-	-
Maint. of M&R Station Equip General	55,977 DIST	55,977	-	-	55,977	-	-	-	-
Maint. of Services	678,014 CUST	-	678,014	-	678,014	-	-	-	-
Maint. of Meters & House Regulators	310,270 CUST	-	310,270	-	310,270	-	-	-	-
Maint. of Other Equip.	13,686 DIST	13,686	-	-	13,686	-	-	-	-
Sub-total	2,855,141	1,866,857	988,284	-	2,855,141	-	-	-	-
	10 707 110	0.500.455	0.000.05		10 707 110				
Total Distribution	12,767,440	9,528,489	3,238,951	-	12,767,440	-	-	-	-

Docket No.DG17-048 Attachment DAH-3 Page 6 of 14

Account Description	Amount Alloc. Fac	tor DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
			665	COM	TOTAL	DEW	003	COM	TOTAL
XPENSES									
& M Expenses									
Production (LPG LNG) - Operation									
Supervision	333,238 DPROD	304,246	-		304,246	-		-	
LPG - Production	263,598 DPROD	240,665	_		240,665	_			
LPG - Materials	46,178 DPROD	42,161	_		42,161				
Gas Mixing & Misc Exp - Keene	(23,701) DPROD_K	42,101	-	-	42,101	-	-	-	
Misc. Prod. Exp.	388,258 DPROD_K	- 354,479	-	-	354,479	-	-	-	
			-	-		-	-	-	
Operation Labor & Expenses	2,543 DPROD	2,322	-	-	2,322	-	-	-	
Other	4,296 DPROD	3,922	-	-	3,922	-	-	-	
Indirect Expenses	(1,992,581) INDIRECT		-	(1,979,418)	(1,979,418)	-	-	(13,163)	(13,16
Sub-total	(978,172)	947,795	-	(1,979,418)	(1,031,623)	-	-	(13,163)	(13,16
Production (LPG LNG) - Maintenance									
Maint. of Prod. Equip	72,133 DPROD	65,857	-	-	65,857	-	-	-	
Sub-total	72,133	65,857	-	-	65,857	-	-	-	
Total Production	(906,039)	1,013,652	-	(1,979,418)	(965,766)	-	-	(13,163)	(13,16
Purchased Gas Expenses									
Gas Supply	- GASCOST								
Storage Gas	- GASCOST - GASCOST	-	-	-		-	-	-	
Other Gas Supply	- GASCOST - GASSPLY		-	-		-		-	
Sub-total	- GASSPLT	-	-	-	-	-	-	-	
Sub-lotal	-	-	-	-	-	-	-	-	
Distribution Operation Expenses									
Operation Supervision & Engineering	1,725,207 DISTOPX	-	-	-	-	-	-	-	
Distribution Load Dispatch	252,649 DIST	-	-	-	-	-	-	-	
Mains & Services Expenses	4,899,898 DIST	-	-	-	-	-	-	-	
M&R Station Expenses - General	160,140 DIST	-	-	-	-	-	-	-	
M&R Station Expenses - Industrial	14,536 DIST	-	-	-	-	-	-	-	
Meter & House Regulator Expenses	1,800,052 CUST	-	-	-	-	-	-	-	
Customer Installation Expenses	58,893 CUST	-	-	-	-	-	-	-	
Other Expenses	988,828 DIST	-	-		-	-	-	-	
Rents	12,098 DIST	-	-				-	-	
Sub-total	9,912,299	-	-	-	-	-	-	-	
Distribution Maintenance Expenses									
	- DISTMNX								
Maint. Supervision & Engineering		-	-	-	-	-	-	-	
Maint. of Structures & Improv.	123,257 DIST	-	-	-	-	-	-	-	
Maint. of Mains	1,673,937 DIST	-	-	-	-	-	-	-	
Maint. of M&R Station Equip General	55,977 DIST	-	-	-	-	-	-	-	
Maint. of Services	678,014 CUST	-	-	-	-	-	-	-	
Maint. of Meters & House Regulators	310,270 CUST	-	-	-	-	-	-	-	
Maint. of Other Equip.	13,686 DIST	-	-	-	-	-	-	-	
Sub-total	2,855,141	-	-	-	-	-	-	-	

Docket No.DG17-048 Attachment DAH-3 Page 7 of 14

					Direct Ga	s Costs				
Account Description	Amount	Alloc. Factor	DEM	Delivery Co CUS	СОМ	TOTAL	DEM	CUS	COM	TOTAL
Customer Account										
Supervision		CACCTX	-	199,462	-	199,462	-	-	-	-
Meter Reading	408,042		-	408,042	-	408,042	-	-	-	-
Customer Records & Collection	3,902,071		-	3,902,071	-	3,902,071	-	-	-	-
Uncollectable Accounts - Delivery		PREV_DEL	-	-	1,482,816	1,482,816	-	-	-	-
Uncollectable Accounts - Production		PREV_PROD	-	-	-	-	-	-	-	-
Misc. Customer Accounts	(19,398)	CUST	-	(19,398)	-	(19,398)	-	-	-	-
Sub-total	5,995,459		-	4,490,176	1,482,816	5,972,992	-	-	-	-
Customer Service & Information Expenses										
Customer Assistance Expense	-	CUST	-	-		-		-	-	-
Misc Customer Assistance Expense	2,521	CUST	-	2,521	-	2,521	-	-	-	-
Sub-total	2,521		-	2,521	-	2,521	-	-	-	-
Sales Expenses										
Demostrating & Selling Expenses	160,782	CUST	-	160,782	-	160,782	-	-	-	-
Sub-total	160,782		-	160,782	-	160,782	-	-	-	-
Administrative and General Expenses										
Administrative & General Salaries	4,878,391	LABOR	2,358,944	2,320,666	-	4,679,610	-	-	-	-
A&G Salaries - Energy Procurement	641,584	GASSPLY	-	-	-	-		-		-
Office Supplies	1,219,159	LABOR	589,524	579,958		1,169,482		-	-	-
Office Supplies - Energy Procurement		GASSPLY	-	-	-	-		-		
A&G Transferred		AGxTRANSFER	(3,419,762)	(3,364,270)	(261,868)	(7,045,900)			-	-
A&G Transferred - Energy Procurement		GASSPLY	(0,110,102)	(0,001,210)	(201,000)	(1,010,000)				
Outside Services	3,980,056		1,924,555	1,893,325		3,817,880				
Outside Serv Gas Acquistion		GASSPLY	1,324,555	1,035,525	-	3,817,000	-	_	-	-
Property Insurance		LABOR	17,374	17,092	_	34,466	-	-	-	-
Injuries & Damages	1,074,851		519,744	511,310		1,031,053	-	-	-	-
					-		-	-	-	-
Employee Pension & Benefits	7,227,581		3,494,894	3,438,183	-	6,933,077		-	-	-
Regulatory Commission - Delivery		PREV_DEL	-	-	694,888	694,888	-	-	-	-
Regulatory Commission - Production		REG_COMM			-		-	-	-	-
Misc. General Expenses		LABOR	34,221	33,665	-	67,886	-	-	-	-
Office Rent	146,051		70,623	69,477	-	140,100	-	-	-	-
Maintenance of General Plant	133,881	LABOR	64,738	63,687	-	128,426	-	-	-	-
Sub-total	12,557,120		5,654,855	5,563,093	433,020	11,650,967	-	-	-	-
TOTAL O & M EXPENSES	30,577,282		15,256,234	13,455,523	1,915,836	30,627,593	-	-	-	-
Labor Expense										
Production - Operation										
Supervision	299,027	DPROD	26,015	-	-	26,015	-	-	-	-
LPG - Production	13,574	DPROD	1,181	-	-	1,181	-	-	-	-
LPG - Materials	194,832	DPROD	16,950	-	-	16,950	-	-	-	-
Gas Mixing & Misc Exp - Keene		DPROD K	(9,365)		-	(9,365)		-		
Misc. Prod. Exp.		DPROD	221	-	-	221		-		-
Operation Labor & Expenses		DPROD		-	-		-	-		-
Sub-total	500,612	511105	35,003	-	-	35,003	-	-	-	-
Production - Maintenance										
Maint. of Prod. Equip		DPROD			-			-		
Sub-total	-	-	-	-	-	-	-	-	-	-
Total Production	500,612		35,003	-	-	35,003	-	-	-	-
			,							

Docket No.DG17-048 Attachment DAH-3 Page 8 of 14

Account Description Amount Alloc, Factor DEM CUS COM TOTAL DEM CUS COM TOTAL Customer Account 99.462 CACTX .				LPG 8	LNG			Mi	sc	
Byservition 194,42 CACCTX - <th>Account Description</th> <th>Amount Alloc. Factor</th> <th>DEM</th> <th></th> <th></th> <th>TOTAL</th> <th>DEM</th> <th></th> <th></th> <th>TOTAL</th>	Account Description	Amount Alloc. Factor	DEM			TOTAL	DEM			TOTAL
Byservition 194,42 CACCTX - <td>Customer Account</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Customer Account									
Mader Reading 400,042 CUST - 7,645		199.462 CACCTX		-					-	
Clastomer Recirct 8. Collection 3.302.071 CUST -<			_	_	_	_		_	_	
Incollectable Accounts - Delivery 1.42,816 PREV_PEL 1 1.42,2 1.42,			-	-	-	-	-	-	-	-
Uncollectable Accounts - Production 22.469 PREV_PROD - 14.822 14.822 - 7.845 7.845 Sub-locat Sub-locat Sub-locat 14.822 14.822 - 7.845 7.845 Cattorer Accounts - Production - Sevines al Information Expenses _ Cutorer Accounts - Production - Sevines al Information Expenses _ . . 14.822 14.822 . 7.845 7.845 Cattorer Assistion - Sevines al Information Expenses _ .			-	-	-	-	-	-	-	-
Mat: Customer Customer <th< td=""><td></td><td></td><td>-</td><td>-</td><td>14 922</td><td>14 922</td><td></td><td>-</td><td>7 6 4 5</td><td>7645</td></th<>			-	-	14 922	14 922		-	7 6 4 5	7645
Sub-total 5,965,459 - 1,4,822 1,4,822 1,4,822 - - 7,645 7,645 Custome Absolution Express Sub-total CUST - <td></td> <td></td> <td>-</td> <td>-</td> <td>14,022</td> <td>14,022</td> <td></td> <td>-</td> <td>7,045</td> <td>7,045</td>			-	-	14,022	14,022		-	7,045	7,045
Customer Assistance Exponse CUST · <th< td=""><td></td><td></td><td>-</td><td>-</td><td>14,822</td><td>14,822</td><td>-</td><td>-</td><td>7,645</td><td>7,645</td></th<>			-	-	14,822	14,822	-	-	7,645	7,645
Msc. Customer Aspanses 2,521 CUST - <t< td=""><td>Customer Service & Information Expenses</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Customer Service & Information Expenses									
Msc. Customer Aspanses 2,521 CUST - <t< td=""><td>Customer Assistance Expense</td><td>- CUST</td><td>-</td><td>-</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td></t<>	Customer Assistance Expense	- CUST	-	-			-	-	-	
Sub-tool 2,221 - - -				-				-	-	
Demostrating & Selling Expenses .			-	-	-	-	-	-	-	-
Sub-coal f60,782 .	Sales Expenses									
Administrative and General Expenses 4,878,391 LABOR 198,781 1 198,781 1 6,61,584 61,584 6,61,584 61,585 61,584 61,5	Demostrating & Selling Expenses	160,782 CUST	-	-	-	-	-	-	-	-
Administrative & General Salaries 4,873,391 LABOR 198,791 - - 164,584 64,584 Add Salaries Energy Procurement 1,219,159 LABOR 49,677 - 49,677 - 66,699 68,999 Add Salaries Energy Procurement 66,699 68,591Y - - 66,699 68,999 Add Transferred (7,749,920) AdX/TRANSFER (288,173) - (288,173) - (415,844) (415,844) (415,844) (415,844) (415,844) (415,844) (415,844) (415,844) (415,844) (415,845) (415,845) (415,845) (415,845) (415,844) (415,844) (415,844) (415,845) (415,844) (415,844) (415,845)	Sub-total	160,782	-	-	-	-	-	-	-	-
A&G Statiries - Energy Procurement 641.684 6A3SPLY - - - 641.684 641.684 Office Supplies Finansferred 7.000 66.699 68.699 68.699 Office Supplies Finansferred - - - 66.699 69.699 A&G Transferred Finansferred - - - 62.80173 - - 66.699 69.699 A&G Transferred Finansferred 162.176 - - - 62.80173 - - 62.80173 - 22.8003 (228.003) (208.000) (208										
Office Supples 1:219,159 LABOR 49,677 - 49,677 - 6,697 6,699 69,699 AGG Transferred (7,749,920) AGKTRANSFER (28,173) - (28,173) - (415,848) </td <td></td> <td></td> <td>198,781</td> <td>-</td> <td>-</td> <td>198,781</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>			198,781	-	-	198,781	-	-	-	-
Office Supplies -Energy Procurement 69,699 GASSPLY - - - 69,699 645,699 AGG Transferred - Energy Procurement (258,003) GASSPLY - - - - - (415,648) (615,649) AGG Transferred - Energy Procurement (258,003) GASSPLY - <td>A&G Salaries - Energy Procurement</td> <td>641,584 GASSPLY</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>641,584</td> <td>641,584</td>	A&G Salaries - Energy Procurement	641,584 GASSPLY	-	-	-	-	-	-	641,584	641,584
A&G Transfered (7,749,90) AGXTRANSFER (8,173) - - (28,073) - - (415,848) (415,848) A&G Transfered (28,003) (28,0	Office Supplies	1,219,159 LABOR	49,677	-	-	49,677	-	-	-	-
A&G Transferred - Energy Procurement (258,003) GASSPLY - - - (258,003) (258,003) Outside Services 380,056 LADOR 162,176 - - - 381,674	Office Supplies - Energy Procurement	69,699 GASSPLY	-	-	-	-	-	-	69,699	69,699
Outside Services 3.980.066 LABOR 162.176 - 162.176 - - - - - - - - - 381.674 381.674 - - - - 381.674 381.674 - <	A&G Transferred	(7,749,920) AGxTRANSFER	(288,173)	-	-	(288,173)	-	-	(415,848)	(415,848)
Outside Services 3.980.066 LABOR 162.176 - 162.176 - - - - - - - - - 381.674 381.674 - - - - 381.674 381.674 - <	A&G Transferred - Energy Procurement	(258.003) GASSPLY	-	-		-	-	-	(258,003)	(258,003)
Outside Serv Gas Acquision 381674 GASSPLY - - - - 381674 <td></td> <td></td> <td>162.176</td> <td>-</td> <td></td> <td>162.176</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>			162.176	-		162.176	-	-	-	-
Property Insurance 35,330 LABOR 1,444 - 1,464 -				-				-	381 674	381 674
Injuries & Damages 1.074.851 LABOR 43.797 - - 43.797 - - 43.797 - - 43.797 - - 43.797 - - 43.797 -			1 464	-		1 464			-	-
Employee Pension & Benefitis 7,227,581 LABOR 294,504 - 294,504 -				-					-	
Regulatory Commission - Delivery 694,888 PREV_DEL - <td< td=""><td></td><td></td><td>- / -</td><td>_</td><td>_</td><td>- / -</td><td></td><td>_</td><td>_</td><td></td></td<>			- / -	_	_	- / -		_	_	
Regulatory Commission - Production 10.528 REG_COMM - - - - - 10.528 10.528 10.528 Misc. General Expenses 70,70 LABOR 2,884 - - 2,884 -			234,304	_		234,304			_	
Misc. General Expenses 70,770 LABOR 2,884 - - 2,884 - <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>10 529</td> <td>10 5 29</td>			-	-				-	10 529	10 5 29
Office Rent 146,051 LABOR 5,951 - 5,951 - <t< td=""><td></td><td></td><td>2 004</td><td>-</td><td>-</td><td>2 00 4</td><td>-</td><td>-</td><td>10,526</td><td>10,526</td></t<>			2 004	-	-	2 00 4	-	-	10,526	10,526
Maintenance of General Plant 133,881 LABOR 5,455 - - 5,455 - - - 429,635 429,635 TOTAL O & M EXPENSES 30,577,282 1,490,169 - (1,964,596) (17,427) - - 429,635 429,635 Labor Expense Supervision 299,027 DPROD 273,012 - - - - - - - - 429,635 429,635 429,635 429,635 429,635 429,635 429,635 Labor Expense Image: Control of the state				-	-		-	-	-	-
Sub-total 12,557,120 476,517 - 476,517 - - 429,635 429,635 TOTAL 0 & M EXPENSES 30,577,282 1,490,169 (1,964,596) (474,427) - - 429,177 424,117 Labor Expense Production - Operation 299,027 DPROD 273,012 - - 273,012 - - - 424,117 LPG - Production 13,574 DPROD 273,012 - - 273,012 -			- /	-	-		-	-	-	-
TOTAL O & M EXPENSES 30,577,282 1,490,169 - (1,964,596) (474,427) - - 4 24,117 424,117 Labor Expense Supervision 299,027 DPROD 273,012 - - 273,012 - - - 4 24,117 Labor Expense Supervision 299,027 DPROD 273,012 - - 273,012 - <th< td=""><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td></td><td>-</td></th<>				-	-		-	-		-
Labor Expense Production - Operation 299,027 DPROD 273,012 - - 273,012 - <td>Sub-total</td> <td>12,557,120</td> <td>476,517</td> <td>-</td> <td>-</td> <td>476,517</td> <td>-</td> <td>-</td> <td>429,635</td> <td>429,635</td>	Sub-total	12,557,120	476,517	-	-	476,517	-	-	429,635	429,635
Production - Operation 299,027 DPROD 273,012 - - 273,012 -	TOTAL O & M EXPENSES	30,577,282	1,490,169	-	(1,964,596)	(474,427)	-	-	424,117	424,117
Supervision 299,027 DPROD 273,012 - - 273,012 -	Labor Expense									
LPG - Production 13,574 DPROD 12,393 - 12,393 -	Production - Operation									
LPG - Production 13,574 DPROD 12,393 - 12,393 -		299,027 DPROD	273,012	-	-	273,012	-	-	-	-
Gas Mixing & Misc Exp - Keene(9,365)DPROD_K	LPG - Production	13,574 DPROD	12,393	-		12,393	-	-	-	
Gas Mixing & Misc Exp - Keene(9,365)DPROD_K	LPG - Materials	194,832 DPROD	177,882	-		177,882	-	-	-	
Misc. Prod. Exp.2,543DPROD2,3222,322 <th< td=""><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<>			-	-	-	-	-	-	-	-
Operation Labor & Expenses DPROD I <			2.322	-	-	2.322	-	-	-	-
Sub-total500,612465,609-465,609 <td></td> <td></td> <td>-,</td> <td>-</td> <td></td> <td>-,</td> <td></td> <td>-</td> <td>-</td> <td></td>			-,	-		-,		-	-	
Maint. of Prod. Equip - DPROD -			465,609	-	-	465,609	-	-	-	-
Sub-total	Production - Maintenance									
Sub-total	Maint. of Prod. Equip	- DPROD	-	-	-	-	-	-	-	-
Total Production 500,612 465,609 465,609		-	-	-	-	-	-	-	-	-
	Total Production	500,612	465,609	-	-	465,609	-	-	-	-

Docket No.DG17-048 Attachment DAH-3 Page 9 of 14

				Delivery Co	osts			Direct Gas	s Costs	
Account Description	Amount	Alloc. Factor	DEM	cus	СОМ	TOTAL	DEM	CUS	СОМ	TOTAL
Distribution Operation Expenses										
Operation Supervision & Engineering	847,506	DISTOPX	655,073	192,433		847,506	-	-		-
Distribution Load Dispatch	215,372	DIST	215,372	-	-	215,372	-	-	-	-
Mains & Services Expenses	3,237,065		3,237,065	-	-	3,237,065	-	-	-	-
M&R Station Expenses - General	129,841		129,841	-	-	129,841	-	-	-	-
M&R Station Expenses - Industrial	9,569	DIST	9,569	-	-	9,569	-	-	-	-
Meter & House Regulator Expenses	1,521,556			1,521,556	-	1,521,556	-	-	-	-
Customer Installation Expenses	17,889		-	17,889	-	17,889	-	-	-	-
Other Expenses	468,781		468,781	-	-	468,781	-	-	-	-
Rents		DIST		-	-	-	-	-	-	-
Sub-total	6,447,579		4,715,701	1,731,879	-	6,447,579	-	-	-	-
Distribution Maintenance Expenses										
Maint. Supervision & Engineering		DISTMNX	-	-	-	-	-	-	-	-
Maint. of Structures & Improv.	83,216		83,216	-	-	83,216	-	-	-	-
Maint. of Mains	656,606		656,606	-	-	656,606	-	-	-	-
Maint. of M&R Station Equip General	30,851		30,851	-	-	30,851	-	-	-	-
Maint. of Services	367,661		-	367,661	-	367,661	-	-	-	-
Maint. of Meters & House Regulators	196,372		-	196,372	-	196,372	-	-	-	-
Maint. of Other Equip.	4,029	DIST	4,029	-	-	4,029	-	-	-	-
Sub-total	1,338,735		774,702	564,033	-	1,338,735	-	-	-	-
Total Distribution	7,786,315		5,490,403	2,295,912	-	7,786,315	-	-	-	-
Customer Account										
Supervision		CACCTX	-	185,091	-	185,091	-	-	-	-
Meter Reading	386,682		-	386,682	-	386,682	-	-	-	-
Customer Records & Collection	2,448,098		-	2,448,098	-	2,448,098	-	-	-	-
Uncollectable Accounts	-	0	-	-	-	-	-	-	-	-
Misc. Customer Accounts		CUST	-	-	-	-	-	-	-	-
Sub-total	3,019,870		-	3,019,870	-	3,019,870	-	-	-	-
Customer Service & Information Expenses										
Customer Assistance Expense		CUST	-	-	-	-	-	-	-	-
Misc Customer Assistance Expense		CUST	-	3,994	-	3,994	-	-	-	-
Sub-total	3,994		-	3,994	-	3,994	-	-	-	-
Sales Expenses										
Demostrating & Selling Expenses	115,969	CUST	-	115,969	-	115,969	-	-	-	-
Sub-total	115,969		-	115,969	-	115,969	-	-	-	-
TOTAL O & M LABOR EXP.	11,426,760		5,525,406	5,435,745	-	10,961,151	-	-	-	

Docket No.DG17-048 Attachment DAH-3 Page 10 of 14

			LPG & LNG				Misc				
Account Description	Amount	Alloc. Factor	DEM	CUS	СОМ	TOTAL	DEM	CUS	COM	TOTAL	
Distribution Operation Expenses											
Operation Supervision & Engineering	947 506	DISTOPX									
Distribution Load Dispatch	215.372		-	-	-	-	-	-	-	-	
Mains & Services Expenses	3,237,065		-	-	-	-	-	-	-	-	
M&R Station Expenses - General	129,841						-	-	-	-	
M&R Station Expenses - Industrial	9,569									-	
Meter & House Regulator Expenses	1,521,556										
Customer Installation Expenses	17,889									-	
Other Expenses	468,781										
Rents		DIST							_	_	
Sub-total	6,447,579	DIOT					-	-	-	-	
	0,447,075										
Distribution Maintenance Expenses											
Maint. Supervision & Engineering	-	DISTMNX			-		-	-	-	-	
Maint. of Structures & Improv.	83,216		-	-	-	-	-	-	-	-	
Maint, of Mains	656,606				-		-	-	-	-	
Maint. of M&R Station Equip General	30,851		-	-	-	-	-	-	-	-	
Maint. of Services	367,661				-		-	-	-	-	
Maint. of Meters & House Regulators	196,372				-		-	-	-	-	
Maint. of Other Equip.	4,029		-	-	-	-	-	-	-	-	
Sub-total	1,338,735		-	-	-	-	-	-	-	-	
Total Distribution	7,786,315		-	-	-	-	-	-	-	-	
Customer Account											
Supervision	185 091	CACCTX								-	
Meter Reading	386,682									-	
Customer Records & Collection	2,448,098									-	
Uncollectable Accounts	2,440,000	0							-	-	
Misc. Customer Accounts		CUST							-	-	
Sub-total	3,019,870		-	-	-	-	-	-	-	-	
	-,,										
Customer Service & Information Expenses											
Customer Assistance Expense	-	CUST	-			-	-	-	-	-	
Misc Customer Assistance Expense	3,994	CUST						-	-	-	
Sub-total	3,994		-	-	-	-	-	-	-	-	
Sales Expenses											
Demostrating & Selling Expenses	115,969	CUST	-	-	-	-	-	-	-	-	
Sub-total	115,969		-	-	-	-	-	-	-	-	
TOTAL O & M LABOR EXP.	11,426,760		465,609	-	-	465,609	-	-	-	-	

Docket No.DG17-048 Attachment DAH-3 Page 11 of 14

	Delivery Costs					Direct Gas Costs				
Account Description	Amount A	lloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Depreciation Expense										
Intangible Plant										
Misc. Intangible Plant	2,378,512 LA	BOR	1,150,129	1,131,465	-	2,281,594	-	-	-	-
Sub-total	2,378,512		1,150,129	1,131,465	-	2,281,594	-	-	-	-
Production Plant										
Production Plant EN	389,879 DF	PROD	33,919	-	-	33,919	-	-		
Production Plant Keene	66,241 DF		66,241	-	-	66,241	-	-	-	-
Sub-total	456,120		100,160	-	-	100,160	-	-	-	-
Other										
Depr Amort of Reserve Surplus	(933,588) PL	ANT	(508,026)	(397,071)	-	(905,097)	-	-	-	-
Regulatory Debits	181,327 AG		81,657	80,332	6,253	168,242	-	-	-	-
Amort. Of Regulatory Asset	3,854,214 LA		1,863,704	1,833,461	-	3,697,165	-	-	-	-
Ratemaking Adjustment	(1,325,000) PD	DGPLT	(723,563)	(561,430)	-	(1,284,993)	-	-	-	-
Sub-total	1,776,953		713,772	955,292	6,253	1,675,317	-	-	-	-
Distribution Plant										
Land & Land Rights	-	0			-					-
M&R Stations	17,837 DI		17,837	-	-	17,837	-	-	-	-
Mains	4,532,743 DIS		4,532,743		-	4,532,743	-	-		-
Compressor Station Equipment	141,154 DI	ST	141,154	-	-	141,154	-	-	-	-
Services	5,248,167 CL	JST	-	5,248,167	-	5,248,167	-	-	-	-
Meters & Installations	857,975 CL	JST	-	857,975	-	857,975	-	-	-	-
Meters Installations	449,468 CL		-	449,468	-	449,468	-	-	-	-
Other Equipment	51,674 DIS	ST	51,674	-	-	51,674	-	-	-	-
Sub-total	11,299,019		4,743,409	6,555,610	-	11,299,019	-	-	-	-
General Plant Plant										
Land & Land Rights	-	0	-	-	-	-	-	-	-	-
Structures & Improvements	642,361 LA	BOR	310,613	305,573	-	616,186	-	-	-	-
Office Furniture & Equipment	345,644 LA	BOR	167,136	164,424	-	331,560	-	-	-	-
Transportation Equipment	534,213 LA		258,319	254,127	-	512,446	-	-	-	-
Stores Equipment	3,311 LA		1,601	1,575	-	3,176	-	-	-	-
Tools, Shop & Garage Equip.	65,199 LA		31,527	31,015	-	62,542	-	-	-	-
Laboratory Equip.	-	0	-	-	-	-	-	-	-	-
Power Operated Equip.	131,974 LA		63,816	62,780	-	126,596	-	-	-	-
Communication Equip.	55,599 LA		26,885	26,449	-	53,334	-	-	-	-
Miscellaneous Equip. Sub-total	24,986 LA 1,803,288	BOR	12,082 871,979	11,886 857,830	-	23,968 1,729,809	-	-	-	-
Sub-Iolar	1,003,200		071,979	037,030	-	1,729,809	-	-	-	-
TOTAL DEPRECIATION EXPENSES	17,713,892		7,579,449	9,500,198	6,253	17,085,899	-	-	-	-
Taxes Other Than Income Taxes										
Payroll	1,713,204 LA	BOR	828,419	814,976	-	1,643,395	-	-	-	
Property	9,181,806 PL		4,996,418	3,905,180	-	8,901,598	-	-	-	-
Sub-total	10,895,009		5,824,837	4,720,156	-	10,544,993	-	-	-	-
TOTAL TAXES OTHER THAN INCOME TAX	۔ 10,895,009		5,824,837	4,720,156	_	10,544,993	_	_		_
TOTAL TAXES OTHER THAN INCOME TAX	10,035,005		5,024,057	4,720,130	-	10,544,555	-	-	-	-
Operating Revenues										
Distribution Rate Revenue	70,681,266 CL		-	-	70,681,266	70,681,266	-	-	-	-
Late Payment Charges - Delivery	435,860 PR		-	-	435,860	435,860	-	-	-	-
Late Payment Charges - Production		REV_PROD	-	-	-	-	-	-	-	-
Connect/Reconnect Fees	400,285 CL		-	400,285	-	400,285	-	-	-	-
Other Revenues Sub-total	38,510 OT	III_REV	-	400,285	38,510 71 155 636	38,510 71 555 921	-	-	-	-
Sub-total	71,562,525		-	400,200	71,155,636	71,555,921	-	-	-	-
TOTAL	71,562,525		-	400,285	71,155,636	71,555,921	-	-	-	-

Docket No.DG17-048 Attachment DAH-3 Page 12 of 14

		LPG & LNG				Misc			
Account Description	Amount Alloc. Factor	DEM	CUS	СОМ	TOTAL	DEM	CUS	СОМ	TOTAL
Depreciation Expense									
Intangible Plant									
Misc. Intangible Plant	2,378,512 LABOR	96,918	-	-	96,918		-	-	-
Sub-total	2,378,512	96,918	-	-	96,918	-	-	-	-
Production Plant									
Production Plant EN	389,879 DPROD	355,960	-	-	355,960	-	-	-	-
Production Plant Keene	66,241 DPROD_K	-	-	-	-	-	-	-	-
Sub-total	456,120	355,960	-	-	355,960	-	-	-	-
Other									
Depr Amort of Reserve Surplus	(933,588) PLANT	(28,491)	-	-	(28,491)		-	-	-
Regulatory Debits	181,327 AGEXP	6,881	-	-	6,881		-	6,204	6,204
Amort. Of Regulatory Asset	3,854,214 LABOR	157,049	-	-	157,049	-	-	-	-
Ratemaking Adjustment	(1,325,000) PDGPLT	(40,007)	-	-	(40,007)	-	-	-	-
Sub-total	1,776,953	95,432	-	-	95,432	-	-	6,204	6,204
Distribution Plant									
Land & Land Rights	- 0	-	-	-			-	-	-
M&R Stations	17,837 DIST	-	-	-	-	-	-	-	-
Mains	4,532,743 DIST		-	-			-	-	-
Compressor Station Equipment	141,154 DIST	-	-	-	-	-	-	-	-
Services	5,248,167 CUST	-	-	-	-	-	-	-	-
Meters & Installations	857,975 CUST	-	-					-	-
Meters Installations	449,468 CUST	-	-					-	-
Other Equipment	51,674 DIST	-	-	-	-	-	-	-	-
Sub-total	11,299,019	-	-	-	-	-	-	-	-
General Plant Plant									
Land & Land Rights	- 0								
Structures & Improvements	642,361 LABOR	26,174			26.174				
Office Furniture & Equipment	345,644 LABOR	14,084			14,084				
Transportation Equipment	534,213 LABOR	21,768	-	-	21,768		-	-	-
Stores Equipment	3,311 LABOR	135	-	-	135	-	-	-	-
Tools, Shop & Garage Equip.	65,199 LABOR	2,657	-		2,657			-	-
Laboratory Equip.	- 0	-	-	-	-	-	-	-	-
Power Operated Equip.	131,974 LABOR	5,378	-	-	5,378	-	-	-	-
Communication Equip.	55,599 LABOR	2,266	-	-	2,266	-	-	-	-
Miscellaneous Equip.	24,986 LABOR	1,018	-	-	1,018	-	-	-	-
Sub-total	1,803,288	73,479	-	-	73,479	-	-	-	-
TOTAL DEPRECIATION EXPENSES	17,713,892	621,789	-	-	621,789	-	-	6,204	6,204
Taura Other They have a Taura									
Taxes Other Than Income Taxes	1 712 204 ABOD	60.900			60.800			-	
Payroll	1,713,204 LABOR 9,181,806 PLANT	69,808 280,208	-	-	69,808 280,208	-	-	-	-
Property Sub-total	9,181,806 PLANT 10,895,009	280,208 350,016	-	-	280,208 350,016	-	-	-	-
	-	,			,				
TOTAL TAXES OTHER THAN INCOME TAX	10,895,009	350,016	-	-	350,016	-	-	-	-
Operating Revenues									
Distribution Rate Revenue	70,681,266 CUR_REV	-	-	-	-	-	-	-	-
Late Payment Charges - Delivery	435,860 PREV_DEL	-	-	-	-	-	-	-	-
Late Payment Charges - Production	6,604 PREV_PROD	-	-	4,357	4,357	-	-	2,247	2,247
Connect/Reconnect Fees	400,285 CUST	-	-	-	-	-	-	-	-
Other Revenues	38,510 OTH_REV	-	-	-	-	-	-	-	-
Sub-total	71,562,525	-	-	4,357	4,357	-	-	2,247	2,247
TOTAL	71,562,525	-	-	4,357	4,357	-	-	2,247	2,247

Functional Cost Study External Allocation Factors

Docket No. DG17-048 Attachment DAH/FCOS-3 Page 13 of 14

Name DEMAND AL	Description LOCATORS		Total	Delivery Costs	Direct Gas Costs	Production Costs	Misc. Costs
LPG LNG	Production	DEM) г	0.00%	0.00%	100.00%	0.00%
	Test Yr with K&N	DEW	1	0.0070	0.0070	1	0.0070
DIST	Distribution	DEM] [100.00%	0.00%	0.00%	0.00%
	Test Yr with K&N	·	1	1			
DPROD	Delivery & Production	DEM		8.70%	0.00%	91.30%	0.00%
	Test Yr with K&N		1	0.087		0.913	
DPROD_K	Keene Production	DEM] _ [100.00%	0.00%	0.00%	0.00%
CUSTOMER	Test Yr with K&N ALLOCATORS		' [
CUST	Distribution Customer	CUS] [100.00%	0.00%	0.00%	0.00%
	Test Yr with K&N		1	1			
	ALLOCATORS	СОМ	1 -	0.00%	0.00%	100.00%	0.00%
TROFAILE	Test Yr with K&N		1	0.0070	0.0070	1	0.0070
LNG	LNG Commodity	СОМ	. –	0.00%	0.00%	100.00%	0.00%
LING	Test Yr with K&N	COIVI	1	0.00%	0.00%	100.00%	0.00%
GASCOST	Allocated Gas Costs	COM	1 [0.00%	100.00%	0.00%	0.00%
	Test Yr with K&N	·	1		1		
GASSPLY	Gas Supply	COM		0.00%	0.00%	0.00%	100.00%
	Test Yr with K&N		1				1
CUR_REV	Revenues at Current Rates	COM		100.00%	0.00%	0.00%	0.00%
	Test Yr with K&N		70,681,266	70,681,266	-	-	-
PROP_REV	Proposed Revenues	COM		98.51%	0.00%	0.98%	0.51%
	Test Yr with K&N		85,311,887	84,038,599		840,021	433,267
PREV_DEL	Proposed Revenues Delivery	COM		100.00%	0.00%	0.00%	0.00%
	Test Yr with K&N		1	1			
PREV_PROD	Proposed Production Revenue	COM		0.00%	0.00%	65.97%	34.03%
	Test Yr with K&N		1,273,288			840,021	433,267
INDIRECT	Settlement Indirect Expenses	COM		0.00%	0.00%	99.34%	0.66%
	Test Yr with K&N		(1,993,598)			(1,980,428)	(13,170)
REG_COMM	Production Regulatory Comm. Exp	COM		0.00%	0.00%	0.00%	100.00%
	Test Yr with K&N		1				1
OTH_REV	Other Revenue	COM		100.00%	0.00%	0.00%	0.00%
	Test Yr with K&N		1	1			

Functional Cost Study Internal Allocators

Allocator						
Name	Description	Total	Delivery Costs	Direct Gas Costs	Production Costs	Misc. Costs
PLANT	Total Plant in Service	480,183,923	465,529,818	-	14,654,104	-
	Percent	100.00%	96.95%	0.00%	3.05%	0.00%
OMEXPX	TOI and O&M Exp. excl. gas costs & uncollectible	39,962,714	39,689,396	-	(143,155)	416,472
	Percent	100.00%	99.32%	0.00%	-0.36%	1.04%
PRODOEXP	Production Operations Expenses	681,172	37,623	-	643,549	-
	Percent	100.00%	5.52%	0.00%	94.48%	0.00%
PRODMNTX	Production Maintenance Expenses	72,133	6,276	-	65,857	-
	Percent	100.00%	8.70%	0.00%	91.30%	0.00%
DISTOPX	Distribution Operations Expense	8,187,092	8,187,092	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
DISTMNX	Distribution Maintenance Expense	2,855,141	2,855,141	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
CACCTX	Customer Accounting Expenses	4,290,715	4,290,715	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
LABOR	Labor expense excluding A&G	11,426,760	10,961,151	-	465,609	-
	Percent	100.00%	95.93%	0.00%	4.07%	0.00%
GENPLT	General Plant	30,610,544	29,363,248	-	1,247,295	-
	Percent	100.00%	95.93%	0.00%	4.07%	0.00%
AGxTRANSFER	A&G Expenses excluding transfer	20,565,043	18,696,867	-	764,690	1,103,486
	Percent	100.00%	90.92%	0.00%	3.72%	5.37%
AGEXP	Total A&G Expense	12,557,120	11,650,967	-	476,517	429,635
	Percent	100.00%	92.78%	0.00%	3.79%	3.42%
DISTRPLT	Distribution Plant	420,465,832	420,465,832	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
RTBASE	Rate Base	252,028,683	248,694,888	-	3,305,388	28,408
	Percent	100.00%	98.68%	0.00%	1.31%	0.01%
PDGPLT	Production, Distribution & General Plant	465,438,034	451,384,784	-	14,053,250	-
	Percent	100.00%	96.98%	0.00%	3.02%	0.00%