

**FUNCTIONAL COST STUDY
SUMMARY OF RESULTS**

Line No.	Description	System Total	Delivery Costs	Direct Gas Costs	LPG & LNG	Misc	Production Costs
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
Rate Base							
1	Plant in Service	\$ 641,189,774	\$ 631,599,724	\$ -	\$ 9,590,051	\$ -	\$ 9,590,051
2	Accumulated Reserve	(204,751,433)	(200,951,293)	-	(3,800,140)	-	(3,800,140)
3	Other Rate Base Items	(80,026,614)	(79,043,506)	-	(1,002,362)	19,254	(983,108)
4	Total Rate Base	\$ 356,411,727	\$ 351,604,925	\$ -	\$ 4,787,548	\$ 19,254	\$ 4,806,803
Revenues at Current Rates							
5	Sales Revenue	\$ 84,591,458	\$ 84,591,458	\$ -	\$ -	\$ -	\$ -
6	Miscellaneous Revenues	1,197,776	1,197,340	-	371	65	436
7	Total Revenues	\$ 85,789,234	\$ 85,788,798	\$ -	\$ 371	\$ 65	\$ 436
Expenses at Current Rates							
8	Operations & Maintenance Expenses	\$ 27,964,575	\$ 27,462,472	\$ -	\$ 233,771	\$ 268,332	\$ 502,103
9	Depreciation Expense	22,911,910	22,219,362	-	662,435	30,113	692,548
10	Taxes Other Than Income Taxes	14,815,175	14,453,671	-	361,504	-	361,504
	Interest on Customer Deposits	-	-	-	-	-	-
11	Total Expenses - Current	\$ 65,691,661	\$ 64,135,506	\$ -	\$ 1,257,710	\$ 298,444	\$ 1,556,155
12	Total Income Taxes	\$ 3,315,812	\$ 3,765,781	\$ -	\$ (369,053)	\$ (80,916)	\$ (449,969)
13	Current Operating Income	\$ 16,781,762	\$ 17,887,511	\$ -	\$ (888,286)	\$ (217,463)	\$ (1,105,749)
14	Return at Current Rates	4.71%	5.09%	0.00%	-18.55%	-1129.43%	-23.00%
15	Index Rate of Return	1.00	1.08	-	(3.94)	(239.87)	(4.89)
Revenue Requirement at Equal Rates of Return							
16	Required Return	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%
17	Required Operating Income	\$ 26,623,956	\$ 26,264,888	\$ -	\$ 357,630	\$ 1,438	\$ 359,068
18	Operating Income (Deficiency)/Surplus	\$ (9,842,195)	\$ (8,377,377)	\$ -	\$ (1,245,916)	\$ (218,902)	\$ (1,464,817)
Expenses at Required Return							
19	Operations & Maintenance Expenses	\$ 27,964,575	\$ 27,462,472	\$ -	\$ 233,771	\$ 268,332	\$ 502,103
20	Depreciation Expense	22,911,910	22,219,362	-	662,435	30,113	692,548
21	Taxes Other than Income	14,815,175	14,453,671	-	361,504	-	361,504
22	Interest on Customer Deposits	-	-	-	-	-	-
23	Total Expenses Required	\$ 65,691,661	\$ 64,135,506	\$ -	\$ 1,257,710	\$ 298,444	\$ 1,556,155
24	Income Taxes	\$ 6,970,867	\$ 6,876,853	\$ -	\$ 93,637	\$ 377	\$ 94,014
25	Total Revenue Requirement at Equal Return	\$ 99,286,484	\$ 97,277,247	\$ -	\$ 1,708,977	\$ 300,259	\$ 2,009,237
26	Revenue (Deficiency)/Surplus	\$ (13,497,250)	\$ (11,488,449)	\$ -	\$ (1,708,606)	\$ (300,194)	\$ (2,008,800)

Functional Cost Study
Account Detail

Line No.	Description (A)	LPG & LNG Costs (B)	Misc. Production Costs (C)	Bad Debts Excl. LPG & LNG (D)	Gas Cost Working Capital (E)	Total Indirect Costs (F)
Summary of Results at Present Rates						
Rate Base						
1	Gas Plant in Service	\$ 9,590,051	\$ -	\$ -	\$ -	\$ 9,590,051
2	Accumulated Reserve	(3,800,140)	-	-	-	(3,800,140)
3	Net Utility Plant in Service	\$ 5,789,911	\$ -	\$ -	\$ -	\$ 5,789,911
Other Rate Base Items:						
4	Fuel Stock	\$ -	\$ -	\$ -	\$ -	\$ -
5	Materials and Supplies	77,309.14	-	-	-	77,309.14
6	Gas Stored Underground	-	-	-	-	-
7	LNG Inventory	-	-	-	-	-
8	Cash Working Capital	39,679	19,254	-	-	58,933
9	Accumulated Deferred Income Taxes	(762,973)	-	-	-	(762,973)
10	Excess Accum. Deferred Income Taxes	(356,377)	-	-	-	(356,377)
11	Total Rate Base	\$ 4,787,548	\$ 19,254	\$ -	\$ -	\$ 4,806,803
Revenues						
12	Total Sales Revenue	\$ -	\$ -	\$ -	\$ -	\$ -
13	Other Operating Revenues	371	65	-	-	436
14	Total Operating Revenues	\$ 371	\$ 65	\$ -	\$ -	\$ 436
Expenses						
15	Purchased Gas Costs	\$ -	\$ -	\$ -	\$ -	\$ -
16	Other O&M excl. Uncollectible	204,841	263,249	-	-	468,090
17	Uncollectible Expense	28,930	-	5,083	-	34,013
18	Depreciation Expense	662,435	30,113	-	-	692,548
19	Other Taxes	361,504	-	-	-	361,504
20	Income Taxes	(369,053)	(79,539)	(1,377)	-	(449,969)
21	Total Operating Expenses	\$ 888,657	\$ 213,822	\$ 3,706	\$ -	\$ 1,106,185
22	Operating Income	\$ (888,286)	\$ (213,757)	\$ (3,706)	\$ -	\$ (1,105,749)
23	Rate of Return	-18.55%	-1110.18%	0.00%	0.00%	-23.00%
24	Index Rate of Return	1.00	59.83	-	-	1.24
25	Net Revenues	\$ -	\$ -	\$ -	\$ -	\$ -

**Functional Cost Study
Account Detail**

Line No.	Description	LPG & LNG Costs	Misc. Production Costs	Bad Debts Excl. LPG & LNG	Gas Cost Working Capital	Total Indirect Costs
	(A)	(B)	(C)	(D)	(E)	(F)
Summary of Results at Claimed Rates						
Rate Base						
26	Gas Plant in Service	\$ 9,590,051	\$ -	\$ -	\$ -	\$ 9,590,051
27	Accumulated Reserve	<u>(3,800,140)</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(3,800,140)</u>
28	Net Utility Plant in Service	\$ 5,789,911	\$ -	\$ -	\$ -	\$ 5,789,911
Other Rate Base Items:						
29	Fuel Stock	\$ -	\$ -	\$ -	\$ -	\$ -
	Materials and Supplies	77,309	-	-	-	77,309
	Gas Stored Underground	-	-	-	-	-
	LNG Inventory	-	-	-	-	-
30	Cash Working Capital	39,679	19,254	-	-	58,933
31	Accumulated Deferred Income Taxes	<u>(762,973)</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(762,973)</u>
8	Excess Accum. Deferred Income Taxes	<u>(356,377)</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(356,377)</u>
9	Total Rate Base	\$ 4,787,548	\$ 19,254	\$ -	\$ -	\$ 4,806,803
Required Rate of Return						
10	Required Operating Income	\$ 357,630	\$ 1,438	\$ -	\$ -	\$ 359,068
Expenses						
11	Purchased Gas Costs	\$ -	\$ -	\$ -	\$ -	\$ -
12	Other O&M excl. Uncollectible	204,841	263,249	-	-	468,090
13	Uncollectible Expense	28,930	-	5,083	-	34,013
14	Depreciation Expense	662,435	30,113	-	-	692,548
15	Other Taxes	<u>361,504</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>361,504</u>
17	Total Expenses Required	\$ 1,257,710	\$ 293,361	\$ 5,083	\$ -	\$ 1,556,155
18	Income Taxes	<u>93,637</u>	<u>377</u>	<u>(0)</u>	<u>-</u>	<u>94,014</u>
19	Total Rev. Req. at Required Return	\$ 1,708,977	\$ 295,177	\$ 5,083	\$ -	\$ 2,009,237
Revenues						
20	Total Sales Revenue	\$ 1,708,606	\$ 295,111	\$ 5,083	\$ -	\$ 2,008,800
	Other Operating Revenues	<u>371</u>	<u>65</u>	<u>-</u>	<u>-</u>	<u>436</u>
	Total Operating Revenues	\$ 1,708,977	\$ 295,177	\$ 5,083	\$ -	\$ 2,009,237

Functional Cost Study
 Account Detail

Account Description	Amount	Alloc. Factor	Delivery Costs				Direct Gas Costs			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
RATE BASE										
Plant in Service										
Intangible Plant										
Misc. Intangible Plant	17,059,198	LABOR	8,865,576	6,749,995	-	15,615,571	-	-	-	-
Sub-total	17,310,148		8,995,994	6,849,291	-	15,845,285	-	-	-	-
Production Plant										
Production Plant EN	5,216,322	DPROD	453,820	-	-	453,820	-	-	-	-
Production Plant Keene	-	DPROD_K	-	-	-	-	-	-	-	-
Sub-total	5,216,322		453,820	-	-	453,820	-	-	-	-
Distribution Plant										
Land & Land Rights	-	DIST	-	-	-	-	-	-	-	-
M&R Stations	-	DIST	-	-	-	-	-	-	-	-
Mains	11,740,462	DIST	11,740,462	-	-	11,740,462	-	-	-	-
Compressor Station Equipment	2,246,186	DIST	2,246,186	-	-	2,246,186	-	-	-	-
M&R Stations	7,435,290	DIST	7,435,290	-	-	7,435,290	-	-	-	-
Services	178,923,785	CUST	-	178,923,785	-	178,923,785	-	-	-	-
Meters & Meter Installations	21,117,103	CUST	-	21,117,103	-	21,117,103	-	-	-	-
Other Equipment	2,677,770	DIST	2,677,770	-	-	2,677,770	-	-	-	-
Sub-total	578,926,765		352,824,153	226,102,612	-	578,926,765	-	-	-	-
General Plant										
Land & Land Rights	121,489	LABOR	63,137	48,071	-	111,208	-	-	-	-
Structures & Improvements	22,653,117	LABOR	11,772,707	8,963,400	-	20,736,107	-	-	-	-
Office Furniture & Equipment	2,403,092	LABOR	1,248,875	950,857	-	2,199,732	-	-	-	-
Transportation Equipment	8,007,116	LABOR	4,161,256	3,168,261	-	7,329,517	-	-	-	-
Stores Equipment	138,142	LABOR	71,792	54,660	-	126,452	-	-	-	-
Tools, Shop & Garage Equip.	3,339,457	LABOR	1,735,499	1,321,359	-	3,056,857	-	-	-	-
Laboratory Equip.	-	LABOR	-	-	-	-	-	-	-	-
Power Operated Equip.	1,378,752	LABOR	716,530	545,545	-	1,262,075	-	-	-	-
Communication Equip.	892,402	LABOR	463,777	353,106	-	816,883	-	-	-	-
Miscellaneous Equip.	802,973	LABOR	417,301	317,721	-	735,022	-	-	-	-
Sub-total	39,736,540		20,650,874	15,722,980	-	36,373,854	-	-	-	-
TOTAL PLANT-IN-SERVICE	641,189,774		382,924,840	248,674,883	-	631,599,724	-	-	-	-
Accumulated Reserve for Depreciation										
Intangible Plant										
Misc. Intangible Plant	(13,560,761)	LABOR	(7,047,457)	(5,365,731)	-	(12,413,188)	-	-	-	-
Sub-total	(13,560,761)		(7,047,457)	(5,365,731)	-	(12,413,188)	-	-	-	-
Production Plant										
Production Plant	(1,837,129)	DPROD	(159,830)	-	-	(159,830)	-	-	-	-
Production Plant Keene	-	DPROD_K	-	-	-	-	-	-	-	-
Sub-total	(1,837,129)		(159,830)	-	-	(159,830)	-	-	-	-
Distribution Plant										
Land & Land Rights	-	DIST	-	-	-	-	-	-	-	-
M&R Stations	83,294	DIST	83,294	-	-	83,294	-	-	-	-
Mains	(404,274)	DIST	(404,274)	-	-	(404,274)	-	-	-	-
Compressor Station Equipment	(192,723)	DIST	(192,723)	-	-	(192,723)	-	-	-	-
M&R Stations	(4,358,391)	DIST	(4,358,391)	-	-	(4,358,391)	-	-	-	-
Services	(85,611,484)	DIST	(85,611,484)	-	-	(85,611,484)	-	-	-	-
Meters & Meter Installations	(7,401,085)	DIST	(7,401,085)	-	-	(7,401,085)	-	-	-	-
Meters Installations	(4,122,684)	CUST	-	(4,122,684)	-	(4,122,684)	-	-	-	-
Land & Land Rights	-	CUST	-	-	-	-	-	-	-	-
Structures and Improvements	(460,293)	CUST	-	(460,293)	-	(460,293)	-	-	-	-
Other Equipment	(2,400,155)	DIST	(2,400,155)	-	-	(2,400,155)	-	-	-	-
Other Equipment	(1,078,797)	DIST	(1,078,797)	-	-	(1,078,797)	-	-	-	-

Functional Cost Study
 Account Detail

Account Description	Amount	Alloc. Factor	LPG & LNG				Misc			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
RATE BASE										
Plant in Service										
Intangible Plant										
Misc. Intangible Plant	17,059,198	LABOR	1,443,627	-	-	1,443,627	-	-	-	-
Sub-total	17,310,148		1,464,863	-	-	1,464,863	-	-	-	-
Production Plant										
Production Plant EN	5,216,322	DPROD	4,762,502	-	-	4,762,502	-	-	-	-
Production Plant Keene	-	DPROD_K	-	-	-	-	-	-	-	-
Sub-total	5,216,322		4,762,502	-	-	4,762,502	-	-	-	-
Distribution Plant										
Land & Land Rights	-	DIST	-	-	-	-	-	-	-	-
M&R Stations	-	DIST	-	-	-	-	-	-	-	-
Mains	11,740,462	DIST	-	-	-	-	-	-	-	-
Compressor Station Equipment	2,246,186	DIST	-	-	-	-	-	-	-	-
M&R Stations	7,435,290	DIST	-	-	-	-	-	-	-	-
Services	178,923,785	CUST	-	-	-	-	-	-	-	-
Meters & Meter Installations	21,117,103	CUST	-	-	-	-	-	-	-	-
Other Equipment	2,677,770	DIST	-	-	-	-	-	-	-	-
Sub-total	578,926,765		-	-	-	-	-	-	-	-
General Plant										
Land & Land Rights	121,489	LABOR	10,281	-	-	10,281	-	-	-	-
Structures & Improvements	22,653,117	LABOR	1,917,009	-	-	1,917,009	-	-	-	-
Office Furniture & Equipment	2,403,092	LABOR	203,361	-	-	203,361	-	-	-	-
Transportation Equipment	8,007,116	LABOR	677,598	-	-	677,598	-	-	-	-
Stores Equipment	138,142	LABOR	11,690	-	-	11,690	-	-	-	-
Tools, Shop & Garage Equip.	3,339,457	LABOR	282,600	-	-	282,600	-	-	-	-
Laboratory Equip.	-	LABOR	-	-	-	-	-	-	-	-
Power Operated Equip.	1,378,752	LABOR	116,676	-	-	116,676	-	-	-	-
Communication Equip.	892,402	LABOR	75,519	-	-	75,519	-	-	-	-
Miscellaneous Equip.	802,973	LABOR	67,951	-	-	67,951	-	-	-	-
Sub-total	39,736,540		3,362,686	-	-	3,362,686	-	-	-	-
TOTAL PLANT-IN-SERVICE	641,189,774		9,590,051	-	-	9,590,051	-	-	-	-
Accumulated Reserve for Depreciation										
Intangible Plant										
Misc. Intangible Plant	(13,560,761)	LABOR	(1,147,573)	-	-	(1,147,573)	-	-	-	-
Sub-total	(13,560,761)		(1,147,573)	-	-	(1,147,573)	-	-	-	-
Production Plant										
Production Plant	(1,837,129)	DPROD	(1,677,299)	-	-	(1,677,299)	-	-	-	-
Production Plant Keene	-	DPROD_K	-	-	-	-	-	-	-	-
Sub-total	(1,837,129)		(1,677,299)	-	-	(1,677,299)	-	-	-	-
Distribution Plant										
Land & Land Rights	-	DIST	-	-	-	-	-	-	-	-
M&R Stations	83,294	DIST	-	-	-	-	-	-	-	-
Mains	(404,274)	DIST	-	-	-	-	-	-	-	-
Compressor Station Equipment	(192,723)	DIST	-	-	-	-	-	-	-	-
M&R Stations	(4,358,391)	DIST	-	-	-	-	-	-	-	-
Services	(85,611,484)	DIST	-	-	-	-	-	-	-	-
Meters & Meter Installations	(7,401,085)	DIST	-	-	-	-	-	-	-	-
Meters Installations	(4,122,684)	CUST	-	-	-	-	-	-	-	-
Land & Land Rights	-	CUST	-	-	-	-	-	-	-	-
Structures and Improvements	(460,293)	CUST	-	-	-	-	-	-	-	-
Other Equipment	(2,400,155)	DIST	-	-	-	-	-	-	-	-
Other Equipment	(1,078,797)	DIST	-	-	-	-	-	-	-	-

Functional Cost Study
 Account Detail

Account Description	Amount	Alloc. Factor	Delivery Costs				Direct Gas Costs			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Measuring and Regulating Station Equipment	18,159	DIST	18,159	-	-	18,159	-	-	-	-
Dist-Measuring and regulating station equipment-Ci	(1,321,095)	DIST	(1,321,095)	-	-	(1,321,095)	-	-	-	-
Indust meas and reg station equip	(4,103)	DIST	(4,103)	-	-	(4,103)	-	-	-	-
Structures and Improvements	(213,309)	DIST	(213,309)	-	-	(213,309)	-	-	-	-
~	-	~	-	-	-	-	-	-	-	-
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~	-	~	-	-	-	-	-	-	-	-
~	-	~	-	-	-	-	-	-	-	-
Sub-total	(177,828,890)		(173,245,912)	(4,582,977)	-	(177,828,890)	-	-	-	-

Functional Cost Study
 Account Detail

Account Description	Amount	Alloc. Factor	LPG & LNG				Misc			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Measuring and Regulating Station Equipment	18,159	DIST	-	-	-	-	-	-	-	-
Dist-Measuring and regulating station equipment-Ci	(1,321,095)	DIST	-	-	-	-	-	-	-	-
Indust meas and reg station equip	(4,103)	DIST	-	-	-	-	-	-	-	-
Structures and Improvements	(213,309)	DIST	-	-	-	-	-	-	-	-
~	-	~	-	-	-	-	-	-	-	-
~	-	~	-	-	-	-	-	-	-	-
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~	-	~	-	-	-	-	-	-	-	-
~	-	~	-	-	-	-	-	-	-	-
Sub-total	(177,828,890)		-	-	-	-	-	-	-	-

Functional Cost Study
Account Detail

Account Description	Amount	Alloc. Factor	Delivery Costs				Direct Gas Costs			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
EXPENSES										
O & M Expenses										
Production (LPG LNG) - Operation										
Supervision	997,056	DPROD	86,744	-	-	86,744	-	-	-	-
LPG - Production	-	DPROD	-	-	-	-	-	-	-	-
LPG - Materials	-	DPROD	-	-	-	-	-	-	-	-
Gas Mixing & Misc Exp - Keene	70,719	DPROD	6,153	-	-	6,153	-	-	-	-
Misc. Prod. Exp.	470,400	DPROD	40,925	-	-	40,925	-	-	-	-
Operation Labor & Expenses	-	DPROD	-	-	-	-	-	-	-	-
Other	26,122	DPROD	2,273	-	-	2,273	-	-	-	-
Indirect Expenses	(1,993,587)	INDIRECT	-	-	-	-	-	-	-	-
Sub-total	(429,290)		136,094	-	-	136,094	-	-	-	-
Production (LPG LNG) - Maintenance										
Maint. of Prod. Equip	119,531	DPROD	10,399	-	-	10,399	-	-	-	-
Sub-total	119,531		10,399	-	-	10,399	-	-	-	-
Total Production	(309,759)		146,493	-	-	146,493	-	-	-	-
Purchased Gas Expenses										
Gas Supply	-	GASCOST	-	-	-	-	-	-	-	-
Storage Gas	-	GASCOST	-	-	-	-	-	-	-	-
Other Gas Supply	-	GASSPLY	-	-	-	-	-	-	-	-
Sub-total	-		-	-	-	-	-	-	-	-
Distribution Operation Expenses										
Operation Supervision & Engineering	543,453	DISTOPX	444,827	98,626	-	543,453	-	-	-	-
Distribution Load Dispatch	587,944	DIST	587,944	-	-	587,944	-	-	-	-
Mains & Services Expenses	5,708,819	DIST	5,708,819	-	-	5,708,819	-	-	-	-
M&R Station Expenses - General	-	DIST	-	-	-	-	-	-	-	-
M&R Station Expenses - Industrial	-	DIST	-	-	-	-	-	-	-	-
Meter & House Regulator Expenses	1,140,737	CUST	-	1,140,737	-	1,140,737	-	-	-	-
Customer Installation Expenses	642,746	CUST	-	642,746	-	642,746	-	-	-	-
Other Expenses	1,736,570	DIST	1,736,570	-	-	1,736,570	-	-	-	-
Rents	10,618	DIST	10,618	-	-	10,618	-	-	-	-
Sub-total	10,370,887		8,488,778	1,882,109	-	10,370,887	-	-	-	-
Distribution Maintenance Expenses										
Maint. Supervision & Engineering	-	DISTMNX	-	-	-	-	-	-	-	-
Maint. of Structures & Improv.	150,147	DIST	150,147	-	-	150,147	-	-	-	-
Maint. of Mains	2,677,943	DIST	2,677,943	-	-	2,677,943	-	-	-	-
Maint. of M&R Station Equip. - General	-	DIST	-	-	-	-	-	-	-	-
Maint. of Services	466,805	CUST	-	466,805	-	466,805	-	-	-	-
Maint. of Meters & House Regulators	356,709	CUST	-	356,709	-	356,709	-	-	-	-
Maint. of Other Equip.	347,300	DIST	347,300	-	-	347,300	-	-	-	-
Sub-total	3,998,904		3,175,390	823,514	-	3,998,904	-	-	-	-
Total Distribution	14,369,791		11,664,168	2,705,623	-	14,369,791	-	-	-	-

Functional Cost Study
 Account Detail

Account Description	Amount	Alloc. Factor	LPG & LNG				Misc			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
EXPENSES										
O & M Expenses										
Production (LPG LNG) - Operation										
Supervision	997,056	DPROD	910,312	-	-	910,312	-	-	-	-
LPG - Production	-	DPROD	-	-	-	-	-	-	-	-
LPG - Materials	-	DPROD	-	-	-	-	-	-	-	-
Gas Mixing & Misc Exp - Keene	70,719	DPROD	64,567	-	-	64,567	-	-	-	-
Misc. Prod. Exp.	470,400	DPROD	429,476	-	-	429,476	-	-	-	-
Operation Labor & Expenses	-	DPROD	-	-	-	-	-	-	-	-
Other	26,122	DPROD	23,849	-	-	23,849	-	-	-	-
Indirect Expenses	(1,993,587)	INDIRECT	-	-	(1,980,417)	(1,980,417)	-	-	(13,170)	(13,170)
Sub-total	(429,290)		1,428,204	-	(1,980,417)	(552,214)	-	-	(13,170)	(13,170)
Production (LPG LNG) - Maintenance										
Maint. of Prod. Equip	119,531	DPROD	109,132	-	-	109,132	-	-	-	-
Sub-total	119,531		109,132	-	-	109,132	-	-	-	-
Total Production	(309,759)		1,537,335	-	(1,980,417)	(443,082)	-	-	(13,170)	(13,170)
Purchased Gas Expenses										
Gas Supply	-	GASCOST	-	-	-	-	-	-	-	-
Storage Gas	-	GASCOST	-	-	-	-	-	-	-	-
Other Gas Supply	-	GASSPLY	-	-	-	-	-	-	-	-
Sub-total	-		-	-	-	-	-	-	-	-
Distribution Operation Expenses										
Operation Supervision & Engineering	543,453	DISTOPX	-	-	-	-	-	-	-	-
Distribution Load Dispatch	587,944	DIST	-	-	-	-	-	-	-	-
Mains & Services Expenses	5,708,819	DIST	-	-	-	-	-	-	-	-
M&R Station Expenses - General	-	DIST	-	-	-	-	-	-	-	-
M&R Station Expenses - Industrial	-	DIST	-	-	-	-	-	-	-	-
Meter & House Regulator Expenses	1,140,737	CUST	-	-	-	-	-	-	-	-
Customer Installation Expenses	642,746	CUST	-	-	-	-	-	-	-	-
Other Expenses	1,736,570	DIST	-	-	-	-	-	-	-	-
Rents	10,618	DIST	-	-	-	-	-	-	-	-
Sub-total	10,370,887		-	-	-	-	-	-	-	-
Distribution Maintenance Expenses										
Maint. Supervision & Engineering	-	DISTMNX	-	-	-	-	-	-	-	-
Maint. of Structures & Improv.	150,147	DIST	-	-	-	-	-	-	-	-
Maint. of Mains	2,677,943	DIST	-	-	-	-	-	-	-	-
Maint. of M&R Station Equip. - General	-	DIST	-	-	-	-	-	-	-	-
Maint. of Services	466,805	CUST	-	-	-	-	-	-	-	-
Maint. of Meters & House Regulators	356,709	CUST	-	-	-	-	-	-	-	-
Maint. of Other Equip.	347,300	DIST	-	-	-	-	-	-	-	-
Sub-total	3,998,904		-	-	-	-	-	-	-	-
Total Distribution	14,369,791		-	-	-	-	-	-	-	-

Functional Cost Study
 Account Detail

Account Description	Amount	Alloc. Factor	Delivery Costs				Direct Gas Costs			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Customer Account										
Supervision	248,451	CACCTX	-	248,451	-	248,451	-	-	-	-
Meter Reading	329,798	CUST	-	329,798	-	329,798	-	-	-	-
Customer Records & Collection	2,768,744	CUST	-	2,768,744	-	2,768,744	-	-	-	-
Uncollectable Accounts - Delivery	1,646,757	PREV_DEL	-	-	1,646,757	1,646,757	-	-	-	-
Uncollectable Accounts - Production	34,013	PREV_PROD	-	-	-	-	-	-	-	-
Misc. Customer Accounts	13,047	CUST	-	13,047	-	13,047	-	-	-	-
Sub-total	5,040,811		-	3,360,041	1,646,757	5,006,798	-	-	-	-
Customer Service & Information Expenses										
Informational and Instructional Advertisign Expenses	96,318	CUST	-	96,318	-	96,318	-	-	-	-
Misc Customer Assistance Expense	15,180	CUST	-	15,180	-	15,180	-	-	-	-
Sub-total	111,497		-	111,497	-	111,497	-	-	-	-
Sales Expenses										
Demostrating & Selling Expenses	458,691	CUST	-	458,691	-	458,691	-	-	-	-
Advertising Expenses	26,484	CUST	-	26,484	-	26,484	-	-	-	-
Misc. Sales Expenses	77,946	CUST	-	77,946	-	77,946	-	-	-	-
Sub-total	563,121		-	563,121	-	563,121	-	-	-	-
Administrative and General Expenses										
Administrative & General Salaries	5,450,219	LABOR	2,832,451	2,156,546	-	4,988,997	-	-	-	-
A&G Salaries - Energy Procurement	421,021	GASSPLY	-	-	-	-	-	-	-	-
Office Supplies	2,035,906	LABOR	1,058,050	805,569	-	1,863,618	-	-	-	-
Office Supplies - Energy Procurement	168,393	GASSPLY	-	-	-	-	-	-	-	-
A&G Transferred	(16,140,423)	AGxTRANSFER	(7,842,482)	(5,971,040)	(505,061)	(14,318,582)	-	-	-	-
A&G Transferred - Energy Procurement	-	GASSPLY	-	-	-	-	-	-	-	-
Outside Services	7,002,280	LABOR	3,639,048	2,770,667	-	6,409,715	-	-	-	-
Outside Serv. - Gas Acquisition	216,091	GASSPLY	-	-	-	-	-	-	-	-
Property Insurance	51,523	LABOR	26,776	20,387	-	47,163	-	-	-	-
Injuries & Damages	814,179	LABOR	423,125	322,155	-	745,280	-	-	-	-
Employee Pension & Benefits	7,260,431	LABOR	3,773,208	2,872,812	-	6,646,020	-	-	-	-
Regulatory Commission - Delivery	761,312	PREV_DEL	-	-	761,312	761,312	-	-	-	-
Regulatory Commission - Production	15,725	REG_COMM	-	-	-	-	-	-	-	-
Misc. General Expenses	1,146	LABOR	595	453	-	1,049	-	-	-	-
Office Rent	131,314	LABOR	68,243	51,958	-	120,202	-	-	-	-
Maintenance of General Plant	-	LABOR	-	-	-	-	-	-	-	-
Sub-total	8,189,114		3,979,014	3,029,507	256,251	7,264,772	-	-	-	-
TOTAL O & M EXPENSES	27,964,575		15,789,676	9,769,789	1,903,008	27,462,472	-	-	-	-
Labor Expense										
Production - Operation										
Supervision	965,037	DPROD	83,958	-	-	83,958	-	-	-	-
LPG - Production	-	DPROD	-	-	-	-	-	-	-	-
LPG - Materials	-	DPROD	-	-	-	-	-	-	-	-
Gas Mixing & Misc Exp - Keene	189,712	DPROD	16,505	-	-	16,505	-	-	-	-
Misc. Prod. Exp.	-	DPROD	-	-	-	-	-	-	-	-
Operation Labor & Expenses	-	DPROD	-	-	-	-	-	-	-	-
Sub-total	1,155,018		100,487	-	-	100,487	-	-	-	-
Production - Maintenance										
Maint. of Prod. Equip	-	DPROD	-	-	-	-	-	-	-	-
Sub-total	-		-	-	-	-	-	-	-	-
Total Production	1,155,018		100,487	-	-	100,487	-	-	-	-

Functional Cost Study
 Account Detail

Account Description	Amount	Alloc. Factor	LPG & LNG				Misc			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Customer Account										
Supervision	248,451	CACCTX	-	-	-	-	-	-	-	-
Meter Reading	329,798	CUST	-	-	-	-	-	-	-	-
Customer Records & Collection	2,768,744	CUST	-	-	-	-	-	-	-	-
Uncollectable Accounts - Delivery	1,646,757	PREV_DEL	-	-	-	-	-	-	-	-
Uncollectable Accounts - Production	34,013	PREV_PROD	-	-	28,930	28,930	-	-	5,083	5,083
Misc. Customer Accounts	13,047	CUST	-	-	-	-	-	-	-	-
Sub-total	5,040,811		-	-	28,930	28,930	-	-	5,083	5,083
Customer Service & Information Expenses										
Informational and Instructional Advertisign Expenses	96,318	CUST	-	-	-	-	-	-	-	-
Misc Customer Assistance Expense	15,180	CUST	-	-	-	-	-	-	-	-
Sub-total	111,497		-	-	-	-	-	-	-	-
Sales Expenses										
Demonstrating & Selling Expenses	458,691	CUST	-	-	-	-	-	-	-	-
Advertising Expenses	26,484	CUST	-	-	-	-	-	-	-	-
Misc. Sales Expenses	77,946	CUST	-	-	-	-	-	-	-	-
Sub-total	563,121		-	-	-	-	-	-	-	-
Administrative and General Expenses										
Administrative & General Salaries	5,450,219	LABOR	461,222	-	-	461,222	-	-	-	-
A&G Salaries - Energy Procurement	421,021	GASSPLY	-	-	-	-	-	-	421,021	421,021
Office Supplies	2,035,906	LABOR	172,288	-	-	172,288	-	-	-	-
Office Supplies - Energy Procurement	168,393	GASSPLY	-	-	-	-	-	-	168,393	168,393
A&G Transferred	(16,140,423)	AGxTRANSFER	(1,277,031)	-	-	(1,277,031)	-	-	(544,810)	(544,810)
A&G Transferred - Energy Procurement	-	GASSPLY	-	-	-	-	-	-	-	-
Outside Services	7,002,280	LABOR	592,565	-	-	592,565	-	-	-	-
Outside Serv. - Gas Acquisition	216,091	GASSPLY	-	-	-	-	-	-	216,091	216,091
Property Insurance	51,523	LABOR	4,360	-	-	4,360	-	-	-	-
Injuries & Damages	814,179	LABOR	68,900	-	-	68,900	-	-	-	-
Employee Pension & Benefits	7,260,431	LABOR	614,411	-	-	614,411	-	-	-	-
Regulatory Commission - Delivery	761,312	PREV_DEL	-	-	-	-	-	-	-	-
Regulatory Commission - Production	15,725	REG_COMM	-	-	-	-	-	-	15,725	15,725
Misc. General Expenses	1,146	LABOR	97	-	-	97	-	-	-	-
Office Rent	131,314	LABOR	11,112	-	-	11,112	-	-	-	-
Maintenance of General Plant	-	LABOR	-	-	-	-	-	-	-	-
Sub-total	8,189,114		647,923	-	-	647,923	-	-	276,419	276,419
TOTAL O & M EXPENSES	27,964,575		2,185,258	-	(1,951,487)	233,771	-	-	268,332	268,332
Labor Expense										
Production - Operation										
Supervision	965,037	DPROD	881,079	-	-	881,079	-	-	-	-
LPG - Production	-	DPROD	-	-	-	-	-	-	-	-
LPG - Materials	-	DPROD	-	-	-	-	-	-	-	-
Gas Mixing & Misc Exp - Keene	189,712	DPROD	173,207	-	-	173,207	-	-	-	-
Misc. Prod. Exp.	-	DPROD	-	-	-	-	-	-	-	-
Operation Labor & Expenses	-	DPROD	-	-	-	-	-	-	-	-
Sub-total	1,155,018		1,054,531	-	-	1,054,531	-	-	-	-
Production - Maintenance										
Maint. of Prod. Equip	-	DPROD	-	-	-	-	-	-	-	-
Sub-total	-		-	-	-	-	-	-	-	-
Total Production	1,155,018		1,054,531	-	-	1,054,531	-	-	-	-

Functional Cost Study
Account Detail

Account Description	Amount	Alloc. Factor	Delivery Costs				Direct Gas Costs			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Distribution Operation Expenses										
Operation Supervision & Engineering	338,512	DISTOPX	277,079	61,433	-	338,512	-	-	-	-
Distribution Load Dispatch	587,482	DIST	587,482	-	-	587,482	-	-	-	-
Mains & Services Expenses	3,573,456	DIST	3,573,456	-	-	3,573,456	-	-	-	-
M&R Station Expenses - General	-	DIST	-	-	-	-	-	-	-	-
M&R Station Expenses - Industrial	-	DIST	-	-	-	-	-	-	-	-
Meter & House Regulator Expenses	1,061,406	CUST	-	1,061,406	-	1,061,406	-	-	-	-
Customer Installation Expenses	636,680	CUST	-	636,680	-	636,680	-	-	-	-
Other Expenses	882,651	DIST	882,651	-	-	882,651	-	-	-	-
Rents	-	DIST	-	-	-	-	-	-	-	-
Sub-total	7,080,188		5,320,668	1,759,519	-	7,080,188	-	-	-	-
Distribution Maintenance Expenses										
Maint. Supervision & Engineering	-	DISTMNX	-	-	-	-	-	-	-	-
Maint. of Structures & Improv.	122,643	DIST	122,643	-	-	122,643	-	-	-	-
Maint. of Mains	833,130	DIST	833,130	-	-	833,130	-	-	-	-
Maint. of M&R Station Equip. - General	-	DIST	-	-	-	-	-	-	-	-
Maint. of Services	210,518	CUST	-	210,518	-	210,518	-	-	-	-
Maint. of Meters & House Regulators	269,244	CUST	-	269,244	-	269,244	-	-	-	-
Maint. of Other Equip.	99,144	DIST	99,144	-	-	99,144	-	-	-	-
Sub-total	1,534,678		1,054,917	479,761	-	1,534,678	-	-	-	-
Total Distribution	8,614,866		6,375,585	2,239,280	-	8,614,866	-	-	-	-
Customer Account										
Supervision	248,451	CACCTX	-	248,451	-	248,451	-	-	-	-
Meter Reading	304,150	CUST	-	304,150	-	304,150	-	-	-	-
Customer Records & Collection	1,611,586	CUST	-	1,611,586	-	1,611,586	-	-	-	-
Uncollectable Accounts	-		-	-	-	-	-	-	-	-
Misc. Customer Accounts	-	CUST	0	-	-	-	-	-	-	-
Sub-total	2,164,187		-	2,164,187	-	2,164,187	-	-	-	-
Customer Service & Information Expenses										
Informational and Instructional Advertising Expenses	21,871	CUST	-	21,871	-	21,871	-	-	-	-
Misc Customer Assistance Expense	-	CUST	-	-	-	-	-	-	-	-
Sub-total	21,871		-	21,871	-	21,871	-	-	-	-
Sales Expenses										
Demonstrating & Selling Expenses	427,410	CUST	-	427,410	-	427,410	-	-	-	-
Advertising Expenses	-	CUST	-	-	-	-	-	-	-	-
Misc. Sales Expenses	77,946	CUST	-	77,946	-	77,946	-	-	-	-
~	-	~	-	-	-	-	-	-	-	-
Sub-total	505,356		-	505,356	-	505,356	-	-	-	-
TOTAL O & M LABOR EXP.	12,461,298		6,476,072	4,930,695	-	11,406,766	-	-	-	-

Functional Cost Study
Account Detail

Account Description	Amount	Alloc. Factor	LPG & LNG				Misc			
			DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Distribution Operation Expenses										
Operation Supervision & Engineering	338,512	DISTOPX	-	-	-	-	-	-	-	-
Distribution Load Dispatch	587,482	DIST	-	-	-	-	-	-	-	-
Mains & Services Expenses	3,573,456	DIST	-	-	-	-	-	-	-	-
M&R Station Expenses - General	-	DIST	-	-	-	-	-	-	-	-
M&R Station Expenses - Industrial	-	DIST	-	-	-	-	-	-	-	-
Meter & House Regulator Expenses	1,061,406	CUST	-	-	-	-	-	-	-	-
Customer Installation Expenses	636,680	CUST	-	-	-	-	-	-	-	-
Other Expenses	882,651	DIST	-	-	-	-	-	-	-	-
Rents	-	DIST	-	-	-	-	-	-	-	-
Sub-total	7,080,188		-	-	-	-	-	-	-	-
Distribution Maintenance Expenses										
Maint. Supervision & Engineering	-	DISTMNX	-	-	-	-	-	-	-	-
Maint. of Structures & Improv.	122,643	DIST	-	-	-	-	-	-	-	-
Maint. of Mains	833,130	DIST	-	-	-	-	-	-	-	-
Maint. of M&R Station Equip. - General	-	DIST	-	-	-	-	-	-	-	-
Maint. of Services	210,518	CUST	-	-	-	-	-	-	-	-
Maint. of Meters & House Regulators	269,244	CUST	-	-	-	-	-	-	-	-
Maint. of Other Equip.	99,144	DIST	-	-	-	-	-	-	-	-
Sub-total	1,534,678		-	-	-	-	-	-	-	-
Total Distribution	8,614,866		-	-	-	-	-	-	-	-
Customer Account										
Supervision	248,451	CACCTX	-	-	-	-	-	-	-	-
Meter Reading	304,150	CUST	-	-	-	-	-	-	-	-
Customer Records & Collection	1,611,586	CUST	-	-	-	-	-	-	-	-
Uncollectable Accounts	-		0	-	-	-	-	-	-	-
Misc. Customer Accounts	-	CUST	-	-	-	-	-	-	-	-
Sub-total	2,164,187		-	-	-	-	-	-	-	-
Customer Service & Information Expenses										
Informational and Instructional Advertising Expenses	21,871	CUST	-	-	-	-	-	-	-	-
Misc Customer Assistance Expense	-	CUST	-	-	-	-	-	-	-	-
Sub-total	21,871		-	-	-	-	-	-	-	-
Sales Expenses										
Demonstrating & Selling Expenses	427,410	CUST	-	-	-	-	-	-	-	-
Advertising Expenses	-	CUST	-	-	-	-	-	-	-	-
Misc. Sales Expenses	77,946	CUST	-	-	-	-	-	-	-	-
~	-	~	-	-	-	-	-	-	-	-
Sub-total	505,356		-	-	-	-	-	-	-	-
TOTAL O & M LABOR EXP.	12,461,298		1,054,531	-	-	1,054,531	-	-	-	-

**Functional Cost Study
External Allocation Factors**

Name	Description		Total	Delivery Costs	Direct Gas Costs	Production Costs	Misc. Costs
DEMAND ALLOCATORS							
LPG_LNG	Production	DEM					
	Test Yr - Energy North		1	0.00%	0.00%	100.00%	0.00%
						1	
DIST	Distribution	DEM					
	Test Yr - Energy North		1	100.00%	0.00%	0.00%	0.00%
				1			
DPROD	Delivery & Production	DEM					
	Test Yr - Energy North		1	8.70%	0.00%	91.30%	0.00%
				0.087		0.913	
DPROD_K	Keene Production	DEM					
	Test Yr - Energy North		1	100.00%	0.00%	0.00%	0.00%
				1			
CUSTOMER ALLOCATORS							
CUST	Distribution Customer	CUS					
	Test Yr - Energy North		1	100.00%	0.00%	0.00%	0.00%
				1			
COMMODITY ALLOCATORS							
PROPANE	Propane Commodity	COM					
	Test Yr - Energy North		1	0.00%	0.00%	100.00%	0.00%
						1	
LNG	LNG Commodity	COM					
	Test Yr - Energy North		1	0.00%	0.00%	100.00%	0.00%
						1	
GASCOST	Allocated Gas Costs	COM					
	Test Yr - Energy North		1	0.00%	100.00%	0.00%	0.00%
					1		
GASSPLY	Gas Supply	COM					
	Test Yr - Energy North		1	0.00%	0.00%	0.00%	100.00%
							1
CUR_REV	Revenues at Current Rates	COM					
	Test Yr - Energy North		84,361,646	100.00%	0.00%	0.00%	0.00%
				84,361,646	-	-	-
PROP_REV	Proposed Revenues	COM					
	Test Yr - Energy North		99,286,484	97.98%	0.00%	1.72%	0.30%
				97,277,247		1,708,977	300,259
PREV_DEL	Proposed Revenues Delivery	COM					
	Test Yr - Energy North		1	100.00%	0.00%	0.00%	0.00%
				1			
PREV_PROD	Proposed Production Revenue	COM					
	Test Yr - Energy North		2,009,237	0.00%	0.00%	85.06%	14.94%
						1,708,977	300,259
INDIRECT	Settlement Indirect Expenses	COM					
	Test Yr - Energy North		(1,993,598)	0.00%	0.00%	99.34%	0.66%
						(1,980,428)	(13,170)
REG_COMM	Production Regulatory Comm. Exp	COM					
	Test Yr - Energy North		1	0.00%	0.00%	0.00%	100.00%
							1
OTH_REV	Other Revenue	COM					
	Test Yr - Energy North		1	100.00%	0.00%	0.00%	0.00%
				1			

**Functional Cost Study
Internal Allocators**

Allocator		Description	Total	Delivery Costs	Direct Gas		
Name					Costs	Production Costs	Misc. Costs
PLANT	Total Plant in Service		641,189,774	631,599,724	-	9,590,051	-
	Percent		100.00%	98.50%	0.00%	1.50%	0.00%
OMEXPX	TOI and O&M Exp. excl. gas costs & uncollectible		41,072,858	40,267,114	-	542,495	263,249
	Percent		100.00%	98.04%	0.00%	1.32%	0.64%
PRODOEXP	Production Operations Expenses		567,242	49,350	-	517,892	-
	Percent		100.00%	8.70%	0.00%	91.30%	0.00%
PRODMNTX	Production Maintenance Expenses		119,531	10,399	-	109,132	-
	Percent		100.00%	8.70%	0.00%	91.30%	0.00%
DISTOPX	Distribution Operations Expense		9,827,435	9,827,435	-	-	-
	Percent		100.00%	100.00%	0.00%	0.00%	0.00%
DISTMNX	Distribution Maintenance Expense		3,998,904	3,998,904	-	-	-
	Percent		100.00%	100.00%	0.00%	0.00%	0.00%
CACCTX	Customer Accounting Expenses		3,111,589	3,111,589	-	-	-
	Percent		100.00%	100.00%	0.00%	0.00%	0.00%
LABOR	Labor expense excluding A&G		12,461,298	11,406,766	-	1,054,531	-
	Percent		100.00%	91.54%	0.00%	8.46%	0.00%
GENPLT	General Plant		39,736,540	36,373,854	-	3,362,686	-
	Percent		100.00%	91.54%	0.00%	8.46%	0.00%
AGxTRANSFER	A&G Expenses excluding transfer		24,329,537	21,583,355	-	1,924,954	821,229
	Percent		100.00%	88.71%	0.00%	7.91%	3.38%
AGEXP	Total A&G Expense		8,189,114	7,264,772	-	647,923	276,419
	Percent		100.00%	88.71%	0.00%	7.91%	3.38%
DISTRPLT	Distribution Plant		578,926,765	578,926,765	-	-	-
	Percent		100.00%	100.00%	0.00%	0.00%	0.00%
RTBASE	Rate Base		356,411,727	351,604,925	-	4,787,548	19,254
	Percent		100.00%	98.65%	0.00%	1.34%	0.01%
PDGPLT	Production, Distribution & General Plant		623,879,626	615,754,439	-	8,125,188	-
	Percent		100.00%	98.70%	0.00%	1.30%	0.00%

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