Liberty Utilities (EnergyNorth Natural Gas) Corp. Request for Approval of Special Contract and Lease Agreement with Innovative Natural Gas, LLC d/b/a iNATGAS Computation of Revenue Requirement

	Computation	n of Revenue Req	unement			
$\frac{1}{2}$	Year	(<u>a)</u> 1	(b) 2	(c) 3	(<u>d)</u> 4	<u>(e)</u> 5
3	i eai	2014	2015	2016	4 2017	2018
4		2014	2013	2010	2017	2010
5	Investment					
6	Compressors	1,000,000	-	-	-	-
7	Piping, meter set, survey, etc	865,000	-	-	-	-
8	Land (pro-rated)	200,000	-	-	-	-
9	Contingency	180,000	-	-	-	-
10	Estimated annual operating costs see real estate taxes below					-
11	Total Amount	2,245,000	-	-	-	-
12 13	Cumulative Program Spend	2,245,000	2,245,000	2,245,000	2,245,000	2,245,000
14	Deferred Tax Calculation					
15	Annual Tax Depreciation (no bonus in 2014) MACRS 15 year	102,250	194,275	174,848	157,465	141,719
16	Cumulative Tax Depreciation	102,250	296,525	471,373	628,838	770,556
17	r · · · · ·				,	
18	Annual Book Depreciation (30-yr prop) 3.33%	68,167	68,167	68,167	68,167	68,167
19	Cumulative Book Depreciation	68,167	136,333	204,500	272,667	340,833
20						
21	Annual Book/Tax Timer	34,083	126,108	106,681	89,298	73,552
22	Cumulative Book/Tax Timer	34,083	160,192	266,872	356,171	429,723
23	Effective Tax Rate	39.61%	39.61%	39.61%	39.61%	39.619
24						
	Deferred Tax Reserve	13,451	63,452	105,708	141,079	170,213
26						
27	Rate Base Calculation					
28 29	Plant In Service	2,245,000	2,245,000	2,245,000	2,245,000	2,245,000
29 30	Accumulated Depreciation Net Plant in Service	(68,167)	(136,333)	(204,500)	(272,667)	(340,833
30 31	Deferred Tax Reserve	2,176,833 (13,451)	2,108,667	2,040,500 (105,708)	1,972,333 (141,079)	1,904,167 (170,213
32	Year End Rate Base	2,163,382	(63,452) 2,045,215	1,934,792	1,831,254	1,733,954
33	Tear End Rate Base	2,105,562	2,045,215	1,754,792	1,031,234	1,755,954
34	Revenue Requirement Calculation					
35		2,163,382	2,045,215	1,934,792	1,831,254	1,733,954
36	Pre-Tax ROR	11.50%	11.50%	11.50%	11.50%	11.509
37	Return and Income Taxes	248,789	235,200	222,501	210,594	199,405
38	Book Depreciation - annual	68,167	68,167	68,167	68,167	68,167
39	Property Taxes - annual (3% inflation adj)	49,196	49,132	48,972	48,717	48,556
40	Annual Revenue Requirement	366,152	352,499	339,640	327,477	316,128
41						
42	Prior Year Cumulative Revenue Requirement	-	366,152	718,651	1,058,290	1,385,768
43						
44	Cumulative Revenue Requirement	366,152	718,651	1,058,290	1,385,768	1,701,896
45						
46 47	Minimum Take-or-Pav Assumption Level	102 (00	285 200	600 800	1 014 400	1,817,000
47 48	Cumulative estimated revenue at minimum take-or-pay level	192,600	385,200	699,800	1,014,400	
40 49	Cumulative revenue requirement (line 39) Excess revenue (deficiency)	366,152 (173,552)	718,651 (333,451)	1,058,290 (358,490)	1,385,768 (371,368)	1,701,896
49 50	Excess revenue (denciency)	(175,552)	(333,431)	(338,490)	(371,308)	115,104
51	Baseline Assumption Level					
52	Cumulative estimated revenue at baseline level	314,600	781,700	1,401,300	2,325,900	3,403,000
53	Cumulative revenue requirement (line 39)	366,152	718,651	1,058,290	1,385,768	1,701,896
54	Excess revenue (deficiency)	(51,552)	63,049	343,010	940,132	1,701,104
55						
	Accelerated Sales Assumption Level					
56			1,025,700	1,828,300	3,057,900	4,287,500
	Cumulative estimated revenue at accelerated sales level	467,100	1,025,700			
56		467,100 366,152	718,651	1,058,290	1,385,768	1,701,896
56 57	Cumulative estimated revenue at accelerated sales level					1,701,896 2,585,604

	Imputed Capital Structure/ROR							
				(prior federal tax	(current federal tax			
				rate of 35% plus	rate of 34% plus			
			Weighted	NH rate of 8.5%)	NH rate of 8.5%)			
	Ratio	Rate	Rate	Pre Tax	Pre Tax			
Long Term Debt	50.00%	6.99%	3.50%	3.50%	3.50%			
Short Term Debt	0.00%	0.00%	0.00%	0.00%	0.00%			
Common Equity	50.00%	9.67%	4.84%	8.13%	8.01%			
	100.00%		8.33%	11.63%	11.50%			
				this rate is for				
				purposes only				
	Short Term Debt	Long Term Debt50.00%Short Term Debt0.00%Common Equity50.00%	Ratio Rate Long Term Debt 50.00% 6.99% Short Term Debt 0.00% 0.00% Common Equity <u>50.00%</u> 9.67%	Ratio Rate Rate Long Term Debt 50.00% 6.99% 3.50% Short Term Debt 0.00% 0.00% 0.00% Common Equity 50.00% 9.67% 4.84%	Ratio Rate Rate Pre Tax Long Term Debt 50.00% 6.99% 3.50% 3.50% Short Term Debt 0.00% 0.00% 0.00% 0.00% Common Equity 50.00% 9.67% 4.84% 8.13% 100.00% 8.33% 11.63%			

 Line / Column Notes:
 Property tax rate reflects actual calendar year 2012 ratio of municipal tax expense to average net plant in service, with 3% inflation factor.

007

Joint State Joint State Joint State Joint State 5 Intributed Compression - <th>1 2 3</th> <th>Year</th> <th>(f) 6 2019</th> <th>(<u>g)</u> 7 2020</th> <th>(<u>h)</u> 8 2021</th> <th>(<u>i)</u> 9 2022</th> <th>(<u>i)</u> 10 2023</th>	1 2 3	Year	(f) 6 2019	(<u>g)</u> 7 2020	(<u>h)</u> 8 2021	(<u>i)</u> 9 2022	(<u>i)</u> 10 2023
5 Instantant 6 Compressorers -			2019	2020	2021	2022	2023
6 Comparessons . <t< td=""><td></td><td>Investment</td><td></td><td></td><td></td><td></td><td></td></t<>		Investment					
Pipeling, meter set, survey, etc . <			-	-	-	-	-
8 Lad [pro-rated]		•	-	-	-	-	-
9 Confignery -			-	-	-	-	-
In Editariade annual operating costs see rad state tasks below .	9		-	-	-	-	-
12 Cumulative Program Spend 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 120,655 120,655 120,655 120,655 120,655 120,657 163,677 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 699,117 2 Annal Book/Tax Timer 48,859 514,448 593,959 646,629 699,117 2 Effective Tax Reserve 193,677 214,467 255,538 65,130 16,63,333 2 Mertin Service 2,245,000 2,245,000 2,245,000 2,245,000 2,450,00 2,450,00 1,642,323 <td>10</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	10		-	-	-	-	-
Image: second	11	Total Amount	-	-	-	-	-
Interfered Tax Calculation Name Tax Depreciation (no homs in 2014) MACRS 15 year 127,404 120,655 11,10,207 1,20,012 1,200,754 Image Tax Depreciation (no homs in 2014) MACRS 15 year 897,960 1,018,615 1,119,207 1,200,129 1,200,754 Image Tax Depreciation (no homs in 2014) MACRS 15 year 499,000 477,167 584,533 613,500 681,67 Image Tax Depreciation (no homs in 2014) May 000 477,167 584,533 613,500 681,67 Image Tax Depreciation (no homs in 2014) May 000 477,167 584,533 613,609 591,171 Image Tax Depreciation 489,595 544,448 593,935 646,629 699,117 Image Tax Reserve 193,677 214,467 2,352,508 2,64,130 2,675,000 Image Tax Reserve 193,677 2,14,467 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,0		Cumulative Program Spend	2,245,000	2,245,000	2,245,000	2,245,000	2,245,000
15 Annual Tax Depreciation (no booms in 2014) MACRS 15 year 127,404 120,655 120,655 120,860 120,655 16 Cumulative Tax Depreciation (no booms in 2014) 897,960 1.018,615 1.199,270 1.200,129 1.380,74 18 Annual Book Depreciation (30-yp ropp) 3.33% 68,167 64,629 699,117 21 Annual Book/Tax Timer 59,237 52,488 52,488 52,493 52,4500 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,641,30 1,563,335 1,642,323 1,553,366		Deferred Tax Calculation					
16 Cumulative Tax Depreciation 897,960 1,018,615 1,139,270 1,260,129 1,380,784 17			127 404	120 655	120 655	120 860	120 655
17 Annual Book Depreciation (30-yr prop) 3.33% 68,167 68,167 68,167 68,167 68,167 18 Annual Book Depreciation 409,000 477,167 545,333 613,500 68,167 20 Cumulative Book/Tax Timer 59,237 52,488 52,488 52,693 52,488 21 Cumulative Book/Tax Timer 488,059 541,448 593,936 64,66,29 699,117 23 Effective Tax Rate 39,61% 39,61% 39,61% 39,61% 39,61% 24 Deferred Tax Reserve 193,677 214,467 225,258 256,130 2,76,920 26 Deferred Tax Reserve 193,677 214,467 235,258 256,130 2,245,000 20 Accumulated Depreciation (409,000) (477,167) (545,333) (69,667) 1,315,000 1,636,333 20 Pare Tax Reserve 1,936,000 1,677,833 1,690,67 1,315,000 1,266,413 21 Pare Tax Reserve 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 26 Pare Tax RoR 1							
18 Annual Book Depreciation (30-yr prop) 3.33% 68,167 68,16		Cumulative Fait Depresation	077,700	1,010,015	1,109,270	1,200,129	1,000,701
IP Cumulative Book Depreciation 409,000 477,167 545,333 613,500 681,667 0		Annual Book Depreciation (30-yr prop) 3.33%	68,167	68,167	68,167	68,167	68,167
20	19				545,333	613,500	681,667
22 Cumulative Book/Tax Timer 488,959 541,448 593,936 646,629 699,117 23 Effective Tax Rate 39,61% 30,61% 36,61% 36,61,61 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167 68,167	20						
23 Effective Tax Rate 39.61% 26.6130 27.62.00 22.65.000 2.245.000 1.266.333 1.663.633 1.663.633 1.663.633 1.663.633 1.663.633 1.664.409 1.375.370 1.286.413 3 Deferred Tax Reserve (193.677) (124.467) (158.477) (128.6413 1.50% 11.50% 11.50% 11.50% 11.50% 11.50%	21	Annual Book/Tax Timer	59,237	52,488	52,488	52,693	52,488
24 Deferred Tax Reserve 193,677 214,467 235,258 256,130 276,920 27 Earce Sacculation 2 245,000 2,245,000 1,265,033 1,608,616,00 1,615,033 1,616,030 1,658,333 1,696,67 1,64,109 1,375,370 1,286,413 1,763 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 1,737 1,286,413 1,737 1,286,413 1,737 1,286,413 1,737 1,286,413 1,737 1,286,413 1,737 1,286,413	22	Cumulative Book/Tax Timer	488,959	541,448	593,936	646,629	699,117
25 Deferred Tax Reserve 193,677 214,467 235,258 256,130 276,920 7 Bran In Service 2,245,000 1,245,000 1,265,333 1,690,667 1,631,500 11,563,333 1,690,667 1,631,500 1,286,413 30 Deferred Tax Reserve (193,677) (124,467) (235,258) (125,613) (276,920) 21 Year End Rate Base 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 31 Book Depreciation - annual 68,167 68,167 68,167 68,167 68,167 68,167 68,167	23	Effective Tax Rate	39.61%	39.61%	39.61%	39.61%	39.61%
Aret Base Calculation Kate Base Calculation 28 Plant In Service 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 1,615,500 1,615,500 1,615,500 1,615,500 1,615,500 1,615,500 1,615,500 1,615,500 1,615,600 1,767,833 1,609,667 1,631,500 1,563,333 31 Deferred Tax Reserve (193,677) (214,467) (235,258) (256,130) (276,920) 33 Terre Tax Reserve (193,677) (214,467) (235,258) (256,130) (276,920) 34 Recreme Requirement Calculation 1 503,366 1,464,409 1,375,370 1,286,413 36 Pre-Tax ROR 11.50%	24						
Part Base Calculation Vertice Vertice </td <td>25</td> <td>Deferred Tax Reserve</td> <td>193,677</td> <td>214,467</td> <td>235,258</td> <td>256,130</td> <td>276,920</td>	25	Deferred Tax Reserve	193,677	214,467	235,258	256,130	276,920
28 Plant In Service 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 2,245,000 1,631,500 1,661,500 1,661,500 1,661,500 1,563,333 1,669,667 1,631,500 1,563,330 1,269,667 1,631,500 1,267,6920 2,285,810 2,285,810 2,285,810 2,285,810 2,285,810 2,285,813 2,285,813 2,285,813 2,285,813 1,286,413 3 37 Verar End Rate Base 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 3 1,50% 11,50% <t< td=""><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	26						
29 Accumulated Depreciation (409,000) (477,167) (545,333) (613,500) (581,667) 30 Net Plant in Service 1,386,000 1,767,333 1,699,667 1,631,500 1,563,333 31 Deferred Tax Reserve (193,677) (214,467) (225,288) (225,130) (276,920) 33 Rerence Requirement Calculation	27	Rate Base Calculation					
30 Net Plant in Service 1.836,000 1.767,833 1.699,667 1.631,500 1.563,333 31 Deferred Tax Reserve (193,677) (214,467) (235,258) (256,130) (276,920) 32 Year End Rate Base 1.642,323 1.553,366 1.464,409 1.375,370 1.286,413 34 Revenue Requirement Calculation 1.553,366 1.464,409 1.375,370 1.286,413 36 Pre-Tax ROR 11.50% 11.5		Plant In Service	2,245,000	2,245,000	2,245,000	2,245,000	2,245,000
31 Deferred Tax Reserve (193,677) (214,467) (235,258) (256,130) (276,920) 32 Year End Rate Base 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 33 Pre-Tax ROR 11.50%	29	Accumulated Depreciation	(409,000)	(477,167)	(545,333)	(613,500)	(681,667)
32 Year End Rate Base 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 33 Revenue Requirement Calculation 5 5 5 5 5 5 5 5 1,553,366 1,464,409 1,375,370 1,286,413 36 Pre-Tax ROR 11.50% 11.50% 11.50% 11.50% 11.50% 11.50% 37 Return and Income Taxes 188,867 178,637 168,407 158,168 147,937 38 Book Depreciation - annual 68,167							
Main Kevenue Requirement Calculation Year End Rate Base 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 Song Tear End Rate Base 1,150% 11.50							
34 Revenue Requirement Calculation 35 Year End Rate Base 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 36 Pre-Tax ROR 11.50% 11.50% 11.50% 11.50% 11.50% 11.50% 37 Return and Income Taxes 188,867 178,637 168,407 68,167 <td></td> <td>Year End Rate Base</td> <td>1,642,323</td> <td>1,553,366</td> <td>1,464,409</td> <td>1,375,370</td> <td>1,286,413</td>		Year End Rate Base	1,642,323	1,553,366	1,464,409	1,375,370	1,286,413
35 Year End Rate Base 1,642,323 1,553,366 1,464,409 1,375,370 1,286,413 36 Pre-Tax ROR 11.50% 11.50% 11.50% 11.50% 11.50% 37 Return and Income Taxes 188,867 178,637 168,407 158,168 147,937 38 Book Depreciation - annual 68,167 68,120,173 12,05,173 1							
36 Pre-Tax ROR 11.50% 11.50% 11.50% 11.50% 11.50% 37 Return and Income Taxes 188,867 178,637 168,407 158,168 147,937 38 Book Depreciation - annual 68,167 68,157 68,157 68,157 68,157 68,157 68,157 68,157 68,120 7,24,800 5,027,400 5,830,000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
37 Return and Income Taxes 188,867 178,637 168,407 158,168 147,937 38 Book Depreciation - annual (3% inflation adj) 68,167 68,167 68,167 68,167 68,167 39 Property Taxes - annual (3% inflation adj) 48,103 47,732 47,251 46,824 46,118 40 Annual Revenue Requirement 305,137 294,535 283,824 273,159 262,222 41 701,896 2,007,032 2,301,568 2,585,392 2,858,551 42 Prior Year Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 43 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 44 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 45 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 46 Liminum Take-or-Pay Assumption Level 4,632,600 5,862,200 7,274,800 8,687,400							
38 Book Depreciation - annual Property Taxes - annual (3% inflation adj) 68,167 (39) 68,167 (7) 68,120 (7) 61,258 (7) 61,258 (7) 61,258 (7) 61,263<(7) 61,263<(7) 61,263<(7) 61,263<(7) 61,263<(7) 61,263<(7) 61,263<(7) 61,203<(7) 61,203<(7) 61,203<(7) 61,203<(7) 61,203<(7) 61,203<(7) 61,203<(7)<							
39 Property Taxes - annual (3% inflation adj) 48,103 47,732 47,251 46,824 46,118 40 Annual Revenue Requirement 305,137 294,535 283,824 273,159 262,222 41 Prior Year Cumulative Revenue Requirement 1,701,896 2,007,032 2,301,568 2,585,392 2,858,551 43 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 45 Cumulative revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 46 Minimum Take-or-Pay Assumption Level Cumulative estimated revenue at minimum take-or-pay level 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 47 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 48 Cumulative estimated revenue at baseline level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 49 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 50 Excess revenue (deficiency)<							
40 Annual Revenue Requirement 305,137 294,535 283,824 273,159 262,222 41 Prior Year Cumulative Revenue Requirement 1,701,896 2,007,032 2,301,568 2,585,392 2,858,551 43 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 44 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 45 Minimum Take-or-Pay Assumption Level Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 46 Minimum Take-or-pay level 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 47 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,888,551 3,120,773 48 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 50 Cumulative estimated revenue at baseline level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 51 Baseline Assumption Level 2,625,56							
41 42 Prior Year Cumulative Revenue Requirement 1,701,896 2,007,032 2,301,568 2,585,392 2,858,551 43 44 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 44 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 45							
42 Prior Year Cumulative Revenue Requirement 1,701,896 2,007,032 2,301,568 2,585,392 2,858,551 43 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 44 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 45 V<		Annuai Revenue Requirement	505,157	294,555	283,824	275,159	202,222
43 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 44 Cumulative Revenue Requirement 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 47 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 48 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 49 Excess revenue (deficiency) 612,568 1,20,632 1,639,408 2,168,849 2,709,227 50 Cumulative estimated revenue at baseline level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 51 Baseline Assumption Level Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 52 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 54 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 55 Cumulative estimated revenue at accelerated sales		Drior Voor Cumulativa Davanua Daguirament	1 701 806	2 007 022	2 201 568	2 585 202	2 959 551
44 Cumulative Revenue Requirement 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 45 46 Minimum Take-or-Pav Assumption Level 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 47 Cumulative estimated revenue at minimum take-or-pay level 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 48 Cumulative revenue requirement (line 39) 2,007,032 2,301,668 2,585,392 2,858,551 3,120,773 49 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 51 Baseline Assumption Level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 52 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 53 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 54 Accelerated Sales Assumption Level 5,700,100 7,112,700 8,525,300 9,937,900 11,350,500 58 Cumulative revenue requirement (line 39) </td <td></td> <td>Phor fear Cumulative Revenue Requirement</td> <td>1,701,890</td> <td>2,007,032</td> <td>2,501,568</td> <td>2,385,392</td> <td>2,858,551</td>		Phor fear Cumulative Revenue Requirement	1,701,890	2,007,032	2,501,568	2,385,392	2,858,551
45 Minimum Take-or-Pav Assumption Level 46 Minimum Take-or-Pav Assumption Level 47 Cumulative estimated revenue at minimum take-or-pay level 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 48 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 49 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 50		Cumulative Revenue Requirement	2 007 032	2 301 568	2 585 392	2 858 551	3 120 773
46 Minimum Take-or-Pav Assumption Level 47 Cumulative estimated revenue at minimum take-or-pay level 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 48 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 49 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 50		Cumulative revenue requirement	2,007,002	2,001,000	2,000,072	2,000,001	5,120,775
47 Cumulative estimated revenue at minimum take-or-pay level 2,619,600 3,422,200 4,224,800 5,027,400 5,830,000 48 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 49 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 50 Cumulative estimated revenue at baseline level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 51 Baseline Assumption Level 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 52 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 54 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 55 S S S S S S S 57 Cumulative estimated revenue at accelerated sales level 5,700,100 7,112,700 8,525,300 9,937,900 11,350,500 58 Cumulative revenue requirement (line 39) 2,007,032 2,301,568		Minimum Take-or-Pay Assumption Level					
48 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 49 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 50 Cumulative estimated revenue at baseline level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 53 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 54 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 55 Cumulative estimated revenue at accelerated sales level 5,700,100 7,112,700 8,525,300 9,937,900 11,350,500 56 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 57 Cumulative estimated revenue at accelerated sales level 5,700,100 7,112,700 8,525,300 9,937,900 11,350,500 58 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 >			2.619.600	3.422.200	4.224.800	5.027.400	5.830.000
49 Excess revenue (deficiency) 612,568 1,120,632 1,639,408 2,168,849 2,709,227 50	48					2,858,551	
50 50 51 Baseline Assumption Level 52 Cumulative estimated revenue at baseline level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 53 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 54 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 55	49	· · · · ·					
52 Cumulative estimated revenue at baseline level 4,632,600 5,862,200 7,274,800 8,687,400 10,100,000 53 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 54 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 55	50						
53 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773 54 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 55	51	Baseline Assumption Level					
54 Excess revenue (deficiency) 2,625,568 3,560,632 4,689,408 5,828,849 6,979,227 55	52	Cumulative estimated revenue at baseline level	4,632,600	5,862,200	7,274,800	8,687,400	10,100,000
Accelerated Sales Assumption Level 57 6 Accelerated Sales Assumption Level 57 Cumulative estimated revenue at accelerated sales level 5,700,100 7,112,700 8,525,300 9,937,900 11,350,500 58 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773	53	Cumulative revenue requirement (line 39)	2,007,032	2,301,568	2,585,392	2,858,551	3,120,773
56 Accelerated Sales Assumption Level 57 Cumulative estimated revenue at accelerated sales level 5,700,100 7,112,700 8,525,300 9,937,900 11,350,500 58 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773	54	Excess revenue (deficiency)	2,625,568	3,560,632	4,689,408	5,828,849	6,979,227
57 Cumulative estimated revenue at accelerated sales level 5,700,100 7,112,700 8,525,300 9,937,900 11,350,500 58 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773	55						
58 Cumulative revenue requirement (line 39) 2,007,032 2,301,568 2,585,392 2,858,551 3,120,773	56	Accelerated Sales Assumption Level					
	57	Cumulative estimated revenue at accelerated sales level	5,700,100	7,112,700	8,525,300	9,937,900	11,350,500
59 Excess revenue (deficiency) 3,693,068 4,811,132 5,939,908 7,079,349 8,229,727	58	Cumulative revenue requirement (line 39)	2,007,032	2,301,568	2,585,392	2,858,551	3,120,773
	59	Excess revenue (deficiency)	3,693,068	4,811,132	5,939,908	7,079,349	8,229,727

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1 2	Year	(<u>k)</u> 11	(<u>1)</u> 12	(<u>m)</u> 13	<u>(n)</u> 14	(<u>o)</u> 15
3		2024	2025	2026	2027	2028
4	•					
5	Investment					
6	Compressors	-	-	-	-	-
7	Piping, meter set, survey, etc	-	-	-	-	-
8	Land (pro-rated)	-	-	-	-	-
9	Contingency	-	-	-	-	-
10	Estimated annual operating costs see real estate taxes below					
11	Total Amount	-	-	-	-	-
12	Cumulative Program Spend	2,245,000	2,245,000	2,245,000	2,245,000	2,245,000
13						
14	Deferred Tax Calculation	120.070	100 155	120.050	100 655	120.070
15	Annual Tax Depreciation (no bonus in 2014) MACRS 15 year		120,655	120,860	120,655	120,860
16	Cumulative Tax Depreciation	1,501,644	1,622,299	1,743,158	1,863,813	1,984,673
17			(0.1.(7	60 L 67	(0.1.(7	(0.1.(7
18	Annual Book Depreciation (30-yr prop) 3.339		68,167	68,167	68,167	68,167
19	Cumulative Book Depreciation	749,833	818,000	886,167	954,333	1,022,500
20		50 (00	52 (00	52 (02	52 400	50 (00
21	Annual Book/Tax Timer	52,693	52,488	52,693	52,488	52,693
22	Cumulative Book/Tax Timer	751,810	804,298	856,991	909,480	962,172
23	Effective Tax Rate	39.61%	39.61%	39.61%	39.61%	39.61%
24		207 702	210 502	220 454	260.245	201 117
25	Deferred Tax Reserve	297,792	318,583	339,454	360,245	381,117
26						
27	Rate Base Calculation	2 2 4 5 000	0.045.000	2 2 4 5 000		2 2 4 5 000
28	Plant In Service	2,245,000	2,245,000	2,245,000	2,245,000	2,245,000
29	Accumulated Depreciation	(749,833)	(818,000)	(886,167)	(954,333)	(1,022,500)
30	Net Plant in Service	1,495,167	1,427,000	1,358,833	1,290,667	1,222,500
31	Deferred Tax Reserve	(297,792)	(318,583)	(339,454)	(360,245)	(381,117)
32	Year End Rate Base	1,197,375	1,108,417	1,019,379	930,422	841,383
33						
34 35	Revenue Requirement Calculation Year End Rate Base	1 107 275	1 100 417	1 010 270	020 422	841,383
35 36	Pre-Tax ROR	1,197,375	1,108,417	1,019,379	930,422	
30	Return and Income Taxes	11.50% 137,698	11.50% 127,468	11.50% 117,229	11.50% 106,999	11.50% 96,759
37						
38 39	Book Depreciation - annual Property Taxes - annual (3% inflation adj)	68,167	68,167	68,167 43,890	68,167 42,850	68,167
39 40	Annual Revenue Requirement	45,453 251,318	44,665 240,300	43,890 229,286	42,850 218,016	41,810 206,735
40	Annual Revenue Requirement	251,518	240,500	229,280	218,016	206,755
41	Prior Year Cumulative Revenue Requirement	3,120,773	3,372,090	3,612,390	3,841,676	4,059,692
42	Phot Tear Cumulative Revenue Requirement	5,120,775	5,572,090	5,012,590	5,841,070	4,039,092
43	Cumulative Revenue Requirement	3,372,090	3,612,390	3,841,676	4,059,692	4,266,427
44	Cumulative Revenue Requirement	5,572,090	3,012,390	5,841,070	4,039,092	4,200,427
46	Minimum Take-or-Pay Assumption Level					
40	Cumulative estimated revenue at minimum take-or-pay level	6,632,600	7,435,200	8,237,800	9,040,400	9,843,000
48	Cumulative estimated revenue at minimum take of pay level Cumulative revenue requirement (line 39)	3,372,090	3,612,390	3,841,676	4,059,692	4,266,427
49	Excess revenue (deficiency)	3,260,510	3,822,810	4,396,124	4,980,708	5,576,573
50	Excess revenue (denerency)	5,200,510	5,022,010	4,570,124	4,700,700	5,576,575
51	Baseline Assumption Level					
52	Cumulative estimated revenue at baseline level	11,512,600	12,925,200	14,337,800	15,750,400	17,163,000
53	Cumulative estimated revenue at blacking level Cumulative revenue requirement (line 39)	3,372,090	3,612,390	3,841,676	4,059,692	4,266,427
54	Excess revenue (deficiency)	8,140,510	9,312,810	10,496,124	11,690,708	12,896,573
55		0,140,010	>,512,010	10,120,124		12,070,073
56	Accelerated Sales Assumption Level					
57	Cumulative estimated revenue at accelerated sales level	12,763,100	14,175,700	15,588,300	17,000,900	18,413,500
58	Cumulative esumated revenue at accelerated sales level Cumulative revenue requirement (line 39)	3,372,090	3,612,390	3,841,676	4,059,692	4,266,427
59	Excess revenue (deficiency)	9,391,010	10,563,310	11,746,624	12,941,208	14,147,073
60	(deneteney)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-0,000,010	-1,7 10,024	-2,7 11,200	1.,1.,,575

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