Attachment WJC/MRS-1

In Docket No. DG 19-161, the Secretarial Letter on September 28, 2020, stated that consistent with Order No. 26,122, Liberty must also include in its next initial rate case filing "an analysis of Liberty's investment in its iNATGAS facility similar to Exhibit 46 in DG 17-048, in sufficient detail, to allow the Commission to evaluate the investment and its impacts on firm customers."

This attachment provides the updated analysis in a format similar to Exhibit 46 in Docket No. DG 17-048. Specifically, this attachment contains the following documentation:

a) Attachment WJC/MRS-1(a): Exhibit 46 part (a) required the Company to provide "a REVISED Attachment to Staff 1-1.e in DG 14-091 (Hall Testimony, Attachment SRH-1) that includes projected AFUDC based on the cost estimates, anticipated construction schedule and Concord property tax rate at that time. Provide supporting work papers in both hard copy and electronic (Microsoft Excel) formats, with all data and formulas intact."

Attachment WJC/MRS-1(a) provides a copy of the Company's original response to Exhibit 46 part (a), as this is an historical document that is unchanged in the updated analysis.

b) Attachment WJC/MRS-1(b): Exhibit 46 part (b) required the Company to provide "an updated REVISED Attachment to Staff 1-1.e in DG 14-091 (Hall Testimony, Attachment SRH-1) using the actual investment amounts (including AFUDC), calendar years corresponding to the in-service date and current Concord property tax rate. Provide supporting work papers in both hard copy and electronic (Microsoft Excel) formats, with all data and formulas intact."

Attachment WJC/MRS-1(b) provides an updated analysis of the project using the actual investment amounts (including AFUDC), calendar years corresponding to the in-service date and current Concord property tax rate.

c) Attachment WJC/MRS-1(c): Exhibit 46 part (c) required the Company to "update Attachment 5-4.3 to include actual monthly consumption and gross margin since May 2017."

Attachment WJC/MRS-1(c) provides an update to Attachment 5-4.3 to include actual monthly consumption and gross margin through June 2020.

Attachment WJC/MRS-1(c) contains confidential customer usage information and confidential pricing can be calculated from the "consumption" and "gross margin" figures.

Order No. 26,122 (Apr. 27, 2018) stated the following with respect to the special contract with iNATGAS: "Nevertheless, the plant has been built and, for purposes of the base rates set in this case, we will allow recovery of the plant up to the level of costs presented in DG 14-091 (\$2,245,000) plus related O&M expense. We will reevaluate this investment in Liberty's next rate case and may consider putting more of the investment in rate base at that time. The remedy fashioned here will put ratepayers in the position they were in when this project was approved." Id. at 31-32 (emphasis added).

The customer information is confidential pursuant to RSA 363:38, and the Commission orally granted confidential treatment of the pricing information in the underlying docket that approved the iNATGAS contract. See Transcript of 4/23/2014 prehearing conference in Docket No. DG 14-091, at page 12. A motion for confidential treatment will be filed to protect the information in this docket.

	Year	(<u>a)</u> 1	(b) 2	(c) 3	(<u>d)</u> 4	(e) 5	(<u>f)</u> 6	(g) 7	(h) 8	(<u>i)</u> 9	(<u>i)</u> 10	(<u>k)</u> 11	(<u>l)</u> 12	(m) 13	(<u>n)</u> 14	(<u>o)</u> 15
3		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
4	To do a															
	Investment Compressors	1.000.000														
	Piping, meter set, survey, etc	865,000	-	-	-			-	-	-			-	-	-	
	Land (pro-rated)	200,000	-			-	-	-	-	-			-	-	-	
	Contingency	180,000	_	_	_	_		_	_	_	_	_	-	_	_	_
	AFUDC based on original estimate and timeline	232,650	-										-	-		
	Total Amount	2,477,650														
	Cumulative Program Spend	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650
13																
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	127,404	120,655	120,655	120,860	120,655	120,860	120,655	120,860	120,655	120,860
16	Cumulative Tax Depreciation	102,250	296,525	471,373	628,838	770,556	897,960	1,018,615	1,139,270	1,260,129	1,380,784	1,501,644	1,622,299	1,743,158	1,863,813	1,984,673
17																
	Annual Book Depreciation (30-yr prop) 3.33%	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
	Cumulative Book Depreciation	68,167	136,333	204,500	272,667	340,833	409,000	477,167	545,333	613,500	681,667	749,833	818,000	886,167	954,333	1,022,500
20																
	Annual Book/Tax Timer	34,083	126,108	106,681	89,298	73,552	59,237	52,488	52,488	52,693	52,488	52,693	52,488	52,693	52,488	52,693
	Cumulative Book/Tax Timer	34,083	160,192	266,872	356,171	429,723	488,959	541,448	593,936	646,629	699,117	751,810	804,298	856,991	909,480	962,172
	Effective Tax Rate	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%	39.61%
24		12.451	63,452	105.708	141.070	170.212	102 677	214.467	235,258	256 120	276,920	207 702	318,583	339,454	360.245	381,117
25	Deferred Tax Reserve	13,451	63,452	105,708	141,079	170,213	193,677	214,467	235,258	256,130	276,920	297,792	318,583	339,434	360,245	381,117
27																
	Plant In Service	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650	2,477,650
	Accumulated Depreciation	(68,167)	(136,333)	(204,500)	(272,667)	(340,833)	(409,000)	(477,167)	(545,333)	(613,500)	(681,667)	(749,833)	(818,000)	(886,167)	(954,333)	(1,022,500)
	Net Plant in Service	2,409,483	2,341,317	2,273,150	2,204,983	2,136,817	2,068,650	2,000,483	1,932,317	1,864,150	1,795,983	1,727,817	1,659,650	1,591,483	1,523,317	1,455,150
	Deferred Tax Reserve	(13,451)	(63,452)	(105,708)	(141,079)	(170,213)	(193,677)	(214,467)	(235,258)	(256,130)	(276,920)	(297,792)	(318,583)	(339,454)	(360,245)	(381,117)
	Year End Rate Base	2,396,032	2,277,865	2,167,442	2,063,904	1,966,604	1,874,973	1,786,016	1,697,059	1,608,020	1,519,063	1,430,025	1,341,067	1,252,029	1,163,072	1,074,033
33																
34	Revenue Requirement Calculation															
35	Year End Rate Base	2,396,032	2,277,865	2,167,442	2,063,904	1,966,604	1,874,973	1,786,016	1,697,059	1,608,020	1,519,063	1,430,025	1,341,067	1,252,029	1,163,072	1,074,033
36	Pre-Tax ROR	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
	Return and Income Taxes	275,544	261,954	249,256	237,349	226,159	215,622	205,392	195,162	184,922	174,692	164,453	154,223	143,983	133,753	123,514
	Book Depreciation - annual	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
	Property Taxes - annual(3% inflation adj)	54,454	54,553	54,556	54,463	54,489	54,199	54,013	53,718	53,501	52,982	52,526	51,947	51,405	50,574	49,766
40		398,165	384,673	371,978	359,979	348,814	337,987	327,572	317,047	306,590	295,840	285,145	274,337	263,555	252,494	241,447
41			200.165	702.020	1.154.015	1.514.705	1.062.610	2 201 507	2.520.150	2.046.216	2 152 005	2 440 646	2 722 701	4.000.120	4.071.600	4.504.176
42	Prior Year Cumulative Revenue Requirement	-	398,165	782,838	1,154,817	1,514,795	1,863,610	2,201,597	2,529,169	2,846,216	3,152,806	3,448,646	3,733,791	4,008,128	4,271,682	4,524,176
44		398,165	782,838	1,154,817	1,514,795	1,863,610	2,201,597	2,529,169	2,846,216	3,152,806	3,448,646	3,733,791	4,008,128	4,271,682	4,524,176	4,765,623
45		390,103	102,038	1,134,01/	1,214,773	1,000,010	2,201,397	2,327,109	2,040,210	3,132,000	3,440,040	3,133,171	4,000,128	4,2/1,002	+,324,170	4,703,023
46	h					1										
47		192,600	385,200	699,800	1,014,400	1,817,000	2,619,600	3,422,200	4,224,800	5,027,400	5,830,000	6,632,600	7,435,200	8,237,800	9,040,400	9,843,000
48		398,165	782,838	1,154,817	1,514,795	1,863,610	2,201,597	2,529,169	2,846,216	3,152,806	3,448,646	3,733,791	4,008,128	4,271,682	4,524,176	4,765,623
49		(205,565)	(397,638)	(455,017)	(500,395)	(46,610)	418,003	893,031	1,378,584	1,874,594	2,381,354	2,898,809	3,427,072	3,966,118	4,516,224	5,077,377
50																
51	Baseline Assumption Level															
52	Cumulative estimated revenue at baseline level	314,600	781,700	1,401,300	2,325,900	3,403,000	4,632,600	5,862,200	7,274,800	8,687,400	10,100,000	11,512,600	12,925,200	14,337,800	15,750,400	17,163,000
53		398,165	782,838	1,154,817	1,514,795	1,863,610	2,201,597	2,529,169	2,846,216	3,152,806	3,448,646	3,733,791	4,008,128	4,271,682	4,524,176	4,765,623
54		(83,565)	(1,138)	246,483	811,105	1,539,390	2,431,003	3,333,031	4,428,584	5,534,594	6,651,354	7,778,809	8,917,072	10,066,118	11,226,224	12,397,377
55																
56																
57		467,100	1,025,700	1,828,300	3,057,900	4,287,500	5,700,100	7,112,700	8,525,300	9,937,900	11,350,500	12,763,100	14,175,700	15,588,300	17,000,900	18,413,500
58		398,165	782,838	1,154,817	1,514,795	1,863,610	2,201,597	2,529,169	2,846,216	3,152,806	3,448,646	3,733,791	4,008,128	4,271,682	4,524,176	4,765,623
59		68,935	242,862	673,483	1,543,105	2,423,890	3,498,503	4,583,531	5,679,084	6,785,094	7,901,854	9,029,309	10,167,572	11,316,618	12,476,724	13,647,877
60	NPV \$28,306,787															

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%) 71 72 Long Term Debt Rate 6.99% Pre Tax 3.50% Pre Tax 3.50% Ratio Rate 3.50% 50.00% 73 Short Term Debt 0.00% 0.00% 0.00% 0.00% 0.00% 74 Common Equity 75 50.00% 9.67% 8.13% 8.01% 4.84% 100.00% 8.33% 11.63% 11.50% this rate is for informational

Line / Column Notes:

61 67

76

³⁹ Property tax rate reflects actual calendar year 2012 ratio of municipal tax expense to average net plant in service, with 3% inflation factor.

1 2	Year		(a) 1	(b) 2	(c) 3	(d) 4	<u>(e)</u> 5
3			Year 1 Year 1 began on 12/1/2016	Year 2	Year 3	Year 4	Year 5
5	Investment		011 12/1/2010				
6	Compressors		1,100,000	_		_	_
7	Piping, meter set, survey, etc		3,080,084	-	-	-	-
8	Land (pro-rated)		200,000	_	_	_	_
9	Contingency		200,000	_	_	_	_
10	AFUDC - Actual		435,510	_	_	_	_
11	Total Amount		4,815,594				
12	Cumulative Program Spend		4,815,594 Does not include	4,815,594	4,815,594	4,815,594	4,815,594
13			Burdens				
14	Deferred Tax Calculation						
15	Annual Tax Depreciation (bonus in 2016) M	ACRS 15 year	2,194,544	198,554	178,699	160,933	144,840
16	Cumulative Tax Depreciation		2,194,544	2,393,098	2,571,797	2,732,730	2,877,570
17							
18	Annual Book Depreciation (30-yr prop)	2.86%	119,550	119,550	119,550	119,550	119,550
19	Cumulative Book Depreciation		119,550	239,101	358,651	478,202	597,752
20							
21	Annual Book/Tax Timer		2,074,994	79,004	59,148	41,383	25,290
22	Cumulative Book/Tax Timer		2,074,994	2,153,997	2,213,145	2,254,528	2,279,818
23	Effective Tax Rate		39.41%	39.41%	27.24%	27.08%	27.08%
24							
25	Deferred Tax Reserve		817,706	848,890	602,861	610,526	617,375
26							
27	Rate Base Calculation		4.015.504	4.015.504	4.015.504	4.015.504	4.015.504
28	Plant In Service		4,815,594	4,815,594	4,815,594	4,815,594	4,815,594
29 30	Accumulated Depreciation		(119,550)	(239,101)	(358,651)	(478,202)	(597,752)
31	Net Plant in Service Deferred Tax Reserve		4,696,044	4,576,493	4,456,943	4,337,392	4,217,842
32	Year End Rate Base		(817,706) 3,878,338	(848,890) 3,727,603	(602,861) 3,854,082	(610,526) 3,726,866	(617,375) 3,600,467
33	Teal Elia Rate Base		3,070,330	3,727,003	3,034,002	3,720,800	3,000,407
34	Revenue Requirement Calculation						
35	Year End Rate Base		3,878,338	3,727,603	3,854,082	3,726,866	3,600,467
36	Pre-Tax ROR		8.50%	8.50%	8.50%	8.50%	8.50%
37	Return and Income Taxes		329,659	316,846	327,597	316,784	306,040
38	Book Depreciation - annual		119,550	119,550	119,550	119,550	119,550
39	Property Taxes - annual (2.7% inflation adj)		129,060	129,162	129,171	129,082	128,910
40	Annual Revenue Requirement		578,270	565,558	576,318	565,416	554,500
41	-						
42	Prior Year Cumulative Revenue Requirement		-	578,270	1,143,828	1,720,146	2,285,563
43							
44	Cumulative Revenue Requirement		578,270	1,143,828	1,720,146	2,285,563	2,840,063
45							

1 2	Year	<u>(a)</u> 1	(b)	(c)	(<u>d)</u>	<u>(e)</u> 5
3	Teat	Year 1 Year 1 began on 12/1/2016	Year 2	Year 3	Year 4	Year 5
46	Minimum Take-or-Pay Assumption Level					
47	Cumulative estimated revenue at minimum take-or-pay level	192,600	385,200	699,800	1,014,400	1,817,000
48	Cumulative revenue requirement (line 39)	578,270	1,143,828	1,720,146	2,285,563	2,840,063
49	Excess revenue (deficiency)	(385,670)	(758,628)	(1,020,346)	(1,271,163)	(1,023,063)
50	NPV \$212,274					
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)	578,270	1,143,828	1,720,146	2,285,563	2,840,063
54	Excess revenue (deficiency)	(263,670)	(362,128)	(318,846)	40,337	562,937
55	NPV \$3,339,664					
56	Accelerated Sales Assumption Level					
57	Cumulative estimated revenue at accelerated sales level	467,100	1,025,700	1,828,300	3,057,900	4,287,500
58	Cumulative revenue requirement (line 39)	578,270	1,143,828	1,720,146	2,285,563	2,840,063
59	Excess revenue (deficiency)	(111,170)	(118,128)	108,154	772,337	1,447,437
60	NPV \$4,170,805	•				
61				•		

O1					
67	_		Imputed	Capital Structure/ROR	
68					(current federal tax
69					rate of 21% plus
70				Weighted	NH rate of 7.7%)
71		Ratio	Rate	Rate	Pre Tax
72	Long Term Debt	49.85%	4.42%	2.20%	2.200%
73	Short Term Debt	0.95%	2.49%	0.02%	0.02%
74	Common Equity	49.21%	9.30%	4.58%	6.280%
75					
76		100.01%		<u>6.80%</u>	<u>8.50%</u>

this rate is for informational purposes only

1 2 3		Year			(<u>f)</u> 6 Year 6	(<u>g)</u> 7 Year 7	(h) 8 Year 8	(i) 9 Year 9	(<u>i)</u> 10 Year 10
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			4,815,594	4,815,594	4,815,594	4,815,594	4,815,594
13									
144,840	144,840		144,840	144,840	130,210	123,312	123,312	123,521	123,312
16		Cumulative Tax Depreciation			3,007,779	3,131,092	3,254,404	3,377,926	3,501,238
17									
18		Annual Book Depreciation (30-yr prop)		3.33%	119,550	119,550	119,550	119,550	119,550
19		Cumulative Book Depreciation			717,302	836,853	956,403	1,075,954	1,195,504
20									
21		Annual Book/Tax Timer			10,659	3,762	3,762	3,971	3,762
22		Cumulative Book/Tax Timer			2,290,477	2,294,239	2,298,001	2,301,972	2,305,734
27.08%	27.08%		27.08%	27.08%	27.08%	27.08%	27.08%	27.08%	27.08%
24									
25		Deferred Tax Reserve			620,261	621,280	622,299	623,374	624,393
26		D. D. G. L.							
27		Rate Base Calculation			4.015.504	4.015.504	4.015.504	4.015.504	4.015.504
28		Plant In Service			4,815,594	4,815,594	4,815,594	4,815,594	4,815,594
29 30		Accumulated Depreciation Net Plant in Service			(717,302)	(836,853) 3,978,741	(956,403)	(1,075,954)	(1,195,504)
31		Deferred Tax Reserve			4,098,292 (620,261)	(621,280)	3,859,191 (622,299)	3,739,640 (623,374)	3,620,090 (624,393)
32		Year End Rate Base			3,478,030	3,357,461	3,236,892	3,116,266	2,995,697
33		Tell End Rate Base			3,470,030	3,337,401	3,230,072	3,110,200	2,773,077
34		Revenue Requirement Calculation							
35		Year End Rate Base			3,478,030	3,357,461	3,236,892	3,116,266	2,995,697
36		Pre-Tax ROR			8.50%	8.50%	8.50%	8.50%	8.50%
37		Return and Income Taxes			295,633	285,384	275,136	264,883	254,634
38		Book Depreciation - annual			119,550	119,550	119,550	119,550	119,550
39		Property Taxes - annual (3% inflation adj)			128,609	128,214	127,700	127,080	126,307
40		Annual Revenue Requirement			543,792	533,149	522,386	511,513	500,491
41									
42		Prior Year Cumulative Revenue Requirement			2,840,063	3,383,855	3,917,004	4,439,390	4,950,903
43									
44		Cumulative Revenue Requirement			3,383,855	3,917,004	4,439,390	4,950,903	5,451,395
45									
46		Minimum Take-or-Pay Assumption Level							
47		Cumulative estimated revenue at minimum take-o	or-pay level	1	2,619,600	3,422,200	4,224,800	5,027,400	5,830,000
48		Cumulative revenue requirement (line 39)			3,383,855	3,917,004	4,439,390	4,950,903	5,451,395
49		Excess revenue (deficiency)			(764,255)	(494,804)	(214,590)	76,497	378,605
50									
51		Baseline Assumption Level			1 500 505	5 0 ca 200	5.05 4.000	0.605.105	10.100.000
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)			3,383,855	3,917,004	4,439,390	4,950,903	5,451,395
54		Excess revenue (deficiency)			1,248,745	1,945,196	2,835,410	3,736,497	4,648,605
55									

1 2 3	Year	(f) 6 Year 6	(<u>g)</u> 7 Year 7	(h) 8 Year 8	(i) 9 Year 9	(<u>j)</u> 10 Year 10
4						
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)	3,383,855	3,917,004	4,439,390	4,950,903	5,451,395
59	Excess revenue (deficiency)	2,316,245	3,195,696	4,085,910	4,986,997	5,899,105

1 2 3		Year			<u>(k)</u> 11 Year 11	(<u>l)</u> 12 Year 12	(m) 13 Year 13	(<u>n)</u> 14 Year 14	(<u>0)</u> 15 Year 15
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 12		Total Amount			4,815,594	4 915 504	4.015.504	4 915 504	4.015.504
		Cumulative Program Spend			4,813,394	4,815,594	4,815,594	4,815,594	4,815,594
13									
123,521	123,521		123,521	123,521	123,312	123,521	123,312	123,312	123,521
16		Cumulative Tax Depreciation			3,624,551	3,748,072	3,871,385	3,994,697	4,118,219
17		Amusal Bash Dama sisting (20 mmsa)		2 220/	110.550	110.550	110.550	110.550	110.550
18 19		Annual Book Depreciation (30-yr prop) Cumulative Book Depreciation		3.33%	119,550 1,315,054	119,550 1,434,605	119,550 1,554,155	119,550 1,673,706	119,550 1,793,256
20		Cumulative Book Depreciation			1,515,054	1,434,003	1,554,155	1,073,700	1,773,230
21		Annual Book/Tax Timer			3,762	3,971	3,762	3,762	3,971
22		Cumulative Book/Tax Timer			2,309,496	2,313,467	2,317,230	2,320,992	2,324,963
27.08%	27.08%		27.089	27.08%	27.08%	27.08%	27.08%	27.08%	27.08%
24									
25		Deferred Tax Reserve			625,412	626,487	627,506	628,525	629,600
26									
27		Rate Base Calculation							
28		Plant In Service			4,815,594	4,815,594	4,815,594	4,815,594	4,815,594
29		Accumulated Depreciation			(1,315,054)	(1,434,605)	(1,554,155)	(1,673,706)	(1,793,256)
30 31		Net Plant in Service Deferred Tax Reserve			3,500,540 (625,412)	3,380,989 (626,487)	3,261,439 (627,506)	3,141,888 (628,525)	3,022,338 (629,600)
32		Year End Rate Base			2,875,128	2,754,502	2,633,933	2,513,364	2,392,738
33		Total End Fulle Buse			2,073,120	2,701,002	2,000,000	2,010,001	2,072,700
34		Revenue Requirement Calculation							
35		Year End Rate Base			2,875,128	2,754,502	2,633,933	2,513,364	2,392,738
36		Pre-Tax ROR			8.50%	8.50%	8.50%	8.50%	8.50%
37		Return and Income Taxes			244,386	234,133	223,884	213,636	203,383
38		Book Depreciation - annual			119,550	119,550	119,550	119,550	119,550
39		Property Taxes - annual (3% inflation adj)			125,415	124,378	123,208	121,858	103,364
40		Annual Revenue Requirement			489,352	478,062	466,643	455,045	426,297
41 42		Dries Vees Computation December Description			E 4E1 20E	5 040 746	6 410 000	6 005 451	7,340,496
43		Prior Year Cumulative Revenue Requirement			5,451,395	5,940,746	6,418,808	6,885,451	7,340,496
44		Cumulative Revenue Requirement			5,940,746	6,418,808	6,885,451	7,340,496	7,766,793
45		Cumulative revenue requirement			5,7 .0,7 .0	0,110,000	0,000,101	7,510,170	7,700,725
46		Minimum Take-or-Pay Assumption Level							
47		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 revenue requirement (line 39)			5,940,746	6,418,808	6,885,451	7,340,496	7,766,793
49		Excess revenue (deficiency)			691,854	1,016,392	1,352,349	1,699,904	2,076,207
50									
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 revenue requirement (line 39)			5,940,746	6,418,808	6,885,451	7,340,496	7,766,793
54		Excess revenue (deficiency)			5,571,854	6,506,392	7,452,349	8,409,904	9,396,207
55									

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1 2 3	Year	<u>(k)</u> 11 Year 11	(<u>l)</u> 12 Year 12	(<u>m)</u> 13 Year 13	(<u>n)</u> 14 Year 14	(<u>0)</u> 15 Year 15
4						
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 revenue requirement (line 39)	5,940,746	6,418,808	6,885,451	7,340,496	7,766,793
59	Excess revenue (deficiency)	6,822,354	7,756,892	8,702,849	9,660,404	10,646,707

Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
Annual revenue requirement	578,270	565,558	576,318	565,416	554,500	543,792	533,149	522,386	511,513	500,491	489,352	478,062	466,643	455,045	426,297
Minimum Take-or-Pay Assumption Level															
Annual estimated revenue at minimum take-or-pay level	192,600	192,600	314,600	314,600	802,600	802,600	802,600	802,600	802,600	802,600	802,600	802,600	802,600	802,600	802,600
Annual revenue requirement (line 6)	578,270	565,558	576,318	565,416	554,500	543,792	533,149	522,386	511,513	500,491	489,352	478,062	466,643	455,045	426,297
Excess revenue (deficiency)	(385,670)	(372,958)	(261,718)	(250,816)	248,100	258,808	269,451	280,214	291,087	302,109	313,248	324,538	335,957	347,555	376,303
NPV \$212,274															
Baseline Assumption Level															
Annual estimated revenue at baseline level	314,600	467,100	619,600	924,600	1,077,100	1,229,600	1,229,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600
Annual revenue requirement (line 6)	578,270	565,558	576,318	565,416	554,500	543,792	533,149	522,386	511,513	500,491	489,352	478,062	466,643	455,045	426,297
Excess revenue (deficiency)	(263,670)	(98,458)	43,282	359,184	522,600	685,808	696,451	890,214	901,087	912,109	923,248	934,538	945,957	957,555	986,303
NPV \$3,339,664															
Accelerated Sales Assumption Level															
Annual estimated revenue at accelerated level	467,100	558,600	802,600	1,229,600	1,229,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600	1,412,600
Annual revenue requirement (line 6)	578,270	565,558	576,318	565,416	554,500	543,792	533,149	522,386	511,513	500,491	489,352	478,062	466,643	455,045	426,297
Excess revenue (deficiency)	(111,170)	(6,958)	226,282	664,184	675,100	868,808	879,451	890,214	901,087	912,109	923,248	934,538	945,957	957,555	986,303
NPV \$4,170,805															

Totals

Combined Total

II-607

 Rate Base model
 CapEx

 Capital Cost
 \$926,500

 Required Return (pre tax)
 8.50%

 Depreciation
 61,767

 OpEx
 10-year Net Present Value
 \$875,710

 Up-front Payment
 \$1,900,000

 5-year amort
 (\$482,202)

 DAS Recovery
 \$1,047,589

	Ratio	Rate	Weighted Rate	(current federal tax rate of 21% plus NH rate of 7.7%) Pre Tax
Long Term Debt	49.85%	4.42%	2.20%	2.20%
Short Term Debt	0.95%	2.49%	0.02%	0.02%
Common Equity	49.21%	9.30%	4.58%	6.28%
	100%		6.80%	8.50%

Amortizat											Amortization of					
- 1	MACRS Rates MAG	CRS Table	Book Depr	Delta	Tax Rate	DIT	ADIT	Rate Base	Return Required	Property Tax I	nsurance	O&M	Initial Payment	Revenue Requirement	Actual Revenues	Delta
	(%)									3% actual Con	cord					
	` '							\$926,500								
1	5 \$	46.325	\$ 23.163	\$(23,163)	27.08	% \$ (6.272	\$ (6,272)		\$77,535	\$27,795	\$2,761	\$4,470	\$482,202	\$967,121,66	\$816,221,00	(\$150,900.66)
2	9.5 \$			\$(64,855)			\$ (23,835)		\$74,552		\$2,761	\$4,582	\$482,202			(\$361,091.26)
3	8.55 \$			\$(56,053)			\$ (39,014)		\$71,190		\$2,761	\$4,696	\$482,202			(\$341,565.34)
4	7.7 \$			\$(48,178)			(52,061)		\$68,021	\$24,540	\$2,761	\$4,814	\$482,202	\$605,499,44		\$27,266.79
-	6.93 \$			\$(40,170)) \$ (63,176)		\$65,024	\$23,454	\$2,761	\$4,934	\$482,202			\$47,048.84
0													\$40Z,2UZ			
ь	6.23 \$			\$(34,558)			\$ (72,534)		\$62,183		\$2,761	\$5,057		\$115,589.83		\$549,210.18
7	5.9 \$	54,664	\$ 23,163	\$(31,501)	27.08	% \$ (8,530) \$ (81,065)) \$683,298	\$59,453	\$21,450	\$2,761	\$5,184		\$112,010.36	\$681,420.01	\$569,409.65
8	5.9 \$	54,664	\$ 23,163	\$(31,501)	27.08	% \$ (8,530	\$ (89,595)) \$651,605	\$56,758	\$20,499	\$2,761	\$5,313		\$108,494.09	\$698,455.51	\$589,961.42
9	5.91 \$	54,756	\$ 23,163	\$(31,594)	27.08	% \$ (8,556	\$ (98,151)	\$619,887	\$54,062	\$19,548	\$2,761	\$5,446		\$104,980.00	\$715,916.90	\$610,936.90
10	5.9 \$	54,664	\$ 23,163	\$(31,501)	27.08	% \$ (8,530	\$(106,681	\$588,194	\$51,366	\$18,597	\$2,761	\$5,582		\$101,468.47	\$733,814.82	\$632,346.35
11	5.91 \$	54,756	\$ 23,163	\$(31,594)	27.08	% \$ (8,556	\$(115,237	\$556,476	\$48,670	\$17,646	\$2,761	\$5,722		\$97,961.10	\$752,160.19	\$654,199.10
12	5.9 \$	54,664	\$ 23,163	\$(31,501)	27.08	% \$ (8,530	\$(123,767	\$524,783	\$45,974	\$16,694	\$2,761	\$5,865		\$94,456.46	\$770,964.20	\$676,507.73
13	5.91 \$	54,756	\$ 23,163	\$(31,594)	27.08	% \$ (8,556	\$(132,323	\$493,065	\$43,277	\$15,743	\$2,761	\$6,012		\$90,956.16	\$790,238.30	\$699,282.14
14	5.9 \$	54,664	\$ 23,163	\$(31,501)	27.08	% \$ (8,530	\$(140,853)	\$461,372	\$40,581	\$14,792	\$2,761	\$6,162		\$87,458.77	\$809,994.26	\$722,535.49
15	5.91 \$	54,756	\$ 23,163	\$(31,594)	27.08	% \$ (8,556	\$(149,409	\$429,654	\$37,885	\$13,841	\$2,761	\$6,316		\$83,965.88	\$830,244.12	\$746,278.23
16	2.95 \$	27,332	\$ 23,163	\$ (4,169)	27.08	% \$ (1,129	\$(150,538)	\$405,362	\$35,504	\$12,890	\$2,761	\$6,474		\$80,790.80	\$851,000.22	\$770,209.42
17			\$ 23,163	\$ 23,163	27.08	% \$ 6,272	\$(144,265)	\$388,472	\$33,753	\$12,161	\$2,761	\$6,636		\$78,472.92	\$872,275.23	\$793,802.31
18			\$ 23,163	\$ 23,163	27.08	% \$ 6,272	\$(137,993	371,582	\$32,316	\$11,654	\$2,761	\$6,802		\$76,695.83	\$894,082.11	\$817,386.28
19			\$ 23,163	\$ 23,163	27.08	% \$ 6,272	\$(131,720	354,692	\$30,880	\$11,147	\$2,761	\$6,972		\$74,922.88	\$916,434.16	\$841,511.28
20			\$ 23,163	\$ 23,163	27.08	% \$ 6,272	\$(125,448)	\$337,802	\$29,444	\$10,641	\$2,761	\$7,146		\$73,154.19	\$939,345.01	\$866,190.83