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August 12, 2022

Via Electronic Mail Only

Daniel Goldner, Chair New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, New Hampshire 03301-2429

Re: Docket No. DG 22-028; Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Petition for Approval of Step Adjustment Filing
Liberty's Responses to the State of New Hampshire Public Utilities Commission's
Record Requests - Set 1

Dear Chair Goldner:

On behalf of Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty, attached please find the Company's responses to the Commission's Set 1 record requests in Docket No. DG 22-028.

Thank you.

Sincerely,

Wither

Michael J. Sheehan

Attachments

Cc: Service List

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty

DG 22-028 Petition for Approval of Step Adjustment Filing

NHPUC Record Requests - Set 1

Date Request Received: 8/8/22 Request No. RR 1-1 Date of Response:8/12/22 Respondent: Paul Normand Erica Menard

REQUEST:

Reference: McNamara/Menard testimony, Bates pages 007-008. Please provide Schedule A (Bates pages 068-069), Schedule B (Bates pages 073-074), and Attachment CAM/ELM-2 (Bates page 080) for each of the following scenarios. (Please provide all schedules in live Excel format.)

- a. Using a cost of removal (COR) of 7.5% instead of 10% (a reduction of 25% of COR expenses compared to the current level).
- b. Using a COR of 4.74% instead of 10% (a reduction of 52.6% of COR expenses compared to the current level).

RESPONSE:

Attachment RR 1-1.A EnergyNorth COR Evaluation.xlsx details the COR levels and related percent of additions for all three COR scenarios requested (10%, 7.5%, 4.74%) since the Company's last depreciation study based on the calendar year 2016. Please note that the 10% COR rate was only applied to certain portions of additions, which results in a much lower level when considering the total additions in these two plant accounts (MAINS 376 and SERVICES 380). In reviewing the two additional levels of 7.5 and 4.74 percent COR, the analysis shows a lower level of COR as compared to the same total plant additions.

- a. Using this information, the originally filed Schedule A, provided in the live Excel file Attachment RR 1-1.B Energy North Natural Gas Co. 14 COL @12-31-21 (10% COR).xlsx for reference, has been recalculated for the 7.5% COR scenario. The reserve imbalance for total depreciable plant from the as filed Schedule A of \$10,918,303 is reduced to \$8,084,813 as shown in Col. 13 in the live Excel file Attachment RR 1-1.C Energy North Natural Gas Co. 14 COL @12-31-21 (7.5%COR).xlsx.
- b. Using this information, the originally filed Schedule A has been recalculated for the 4.74% COR scenario. The reserve imbalance for total depreciable plant from the filed \$10,918,303 is reduced to \$4,956,639 as shown in Col. 13 in the live Excel file

Attachment RR 1-1.D Energy North Natural Gas Co. 14 COL @12-31-21 (4.74%COR).xlsx.

Note that Schedule B remains unchanged from the filed results as this is a whole life depreciation analysis that has no impact on Schedule B results. In addition, the recommended first step in reducing the COR to 7.5% considered the need for two additional years to establish a more robust average going forward. Also, a major factor in these estimates is that COR is essentially labor-related and with the recent large increase in inflation, the Company would expect that this would have an impact on these results.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty

DG 22-028 Petition for Approval of Step Adjustment Filing

NHPUC Record Requests - Set 1

Date Request Received: 8/8/22 Request No. RR 1-2 Date of Response:8/12/22 Respondent: Paul Normand Erica Menard

REQUEST:

Reference: Record Request 1 above.

- a. Schedule A. Please compare the reserve variances among the three COR scenarios (10%, 7.5%, and 4.74%).
- b. Schedule B. Please compare the differences in the annual accruals (column 10) applying a COR of 7.5% and a COR of 4.74%.
- c. Attachment CAM/ELM-2. Please compare the Total Annual Revenue Requirement among the three COR scenarios (10%, 7.5%, and 4.74%).

RESPONSE:

- a. Please see the response to RR 1-1, parts a and b.
- b. Schedule B remains unchanged from the filed results as this is a whole life depreciation analysis that has no impact on Schedule B results.
- c. Under the as-filed scenario of 10% COR, the total annual revenue requirement after the Keene Phase I adjustment is \$3,409,119. To perform the requested analysis, the Company calculated an illustrative capital addition amount for each scenario to demonstrate the directional impact on the revenue requirement of increasing the level of additions included in the step adjustment as a result of lowering the cost of removal. Under the 7.5% COR scenario, the distribution mains and services capital spending was adjusted to reflect less cost of removal and higher plant additions resulting in an adjusted annual revenue requirement of \$3,412,715. Under the 4.74% COR scenario, the distribution mains and services capital spending was adjusted to reflect less cost of removal and higher plant additions resulting in an adjusted annual revenue requirement of \$3,412,715. Under the 4.74% COR scenario, the distribution mains and services capital spending was adjusted to reflect less cost of removal and higher plant additions resulting in an adjusted annual revenue requirement of \$3,416,686. In all scenarios, the revenue requirement is higher than the \$3.2 million cap and would not impact the step adjustment amount. Please see Attachment RR 1-2.xlsx for the revenue requirement under each scenario.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty

DG 22-028 Petition for Approval of Step Adjustment Filing

NHPUC Record Requests - Set 1

Date Request Received: 8/8/22 Request No. RR 1-3 Date of Response:8/12/22 Respondent: Erica Menard

REQUEST:

Please provide a similar analysis for the second step adjustment comparing the rate base on January 1, 2021, to your estimate of the unconstrained rate base on January 1, 2022. Recalculate the rate base to be used for the second step increase by taking into account the level of depreciation that occurred in 2021.

RESPONSE:

The Company appreciates the follow-up request and interprets the question to be asking the Company to calculate the Step Adjustment as a one-year rate-base update, rather than following the calculation that the parties agreed upon in the DG 20-105 Settlement Agreement, which calculation the Commission approved in Order No. 26,505 (July 30, 2021).

Specifically, the question asks the Company to compare rate base on January 1, 2021, to rate base on January 1, 2022, updating the rate base for elements including depreciation.

For explanation purposes, it is important to first note that the Company is proposing recovery of the fixed amount of \$3.2 million before any adjustments to depreciation expense, as provided by Section 5(b)(i) of the Settlement Agreement. The provisions of the Settlement Agreement governing the Step Adjustments do not call for the Company to update or reset rate base as part of the Second Step Adjustment. Rate base encompasses all of the Company's plant-in-service and an update to rate base would reset all elements of rate base, as implied by the question.

The Settlement Agreement is not structured to compute the step in this manner. Instead, the agreement reached on the Step Adjustment was that: (1) the Company would calculate the revenue requirement exclusively on the non-growth capital additions completed in 2021 (including depreciation that occurred in 2021 on those additions); and (2) would recover that revenue requirement up to a cap of \$3.2 million. The actual revenue requirement on 2021 capital additions is \$3.4 million. Therefore, to reach consensus for the Settlement Agreement, the Settling Parties agreed to a computational method that *differed from a rate-base update*, but that also required the Company to give up approximately \$400,000 of the total revenue requirement computed for those additions.

This mutual agreement is explicitly captured in Section 5 of the Settlement Agreement, which outlines how the calculation of the step will be made, stating as follows (emphasis added):

- (b) Step 2 shall reflect an increase to account for *certain capital projects* placed in service during calendar year 2021 and shall be effective on August 1, 2022. *This second step adjustment reflects adjustments that have been made to the revenue requirement in order to reach settlement.* The second step shall be subject to the following conditions:
 - i. The *revenue requirement* for this step *shall be capped at a \$3.2 million* increase to annual Distribution Revenue from the projects referenced in iii. below.
 - ii. The step shall be based on the projects closed to plant in 2021, and shall exclude new business/growth-related projects.
 - iii. The projects that may be included in the step are identified in the listing attached as Appendix 2 including Keene CNG Phase 1 costs as further described in Section 7.2. The Settling Parties agree that the Company may substitute other similar non-growth projects prior to the commencement of the review period if projects identified in Appendix 2 are not deployed.
 - iv. Local property taxes shall not be included in the calculation and will be recovered through the Property Tax Adjustment Mechanism in Section 6 of the Settlement Agreement. State utility property taxes for all projects listed in Appendix 1, calculated using the statutory tax rate in RSA 83-F:2, shall be included in the step adjustment calculation, shall count toward the cap, and shall be given first priority of recovery.
 - v. The step adjustment shall include adjustments resulting from the updated depreciation study as provided in Section 3.2 of the Settlement Agreement.

Thus, the Settlement Agreement captures the following points:

- Section 5.1(b) states that the Step 2 increase shall account for "certain capital projects" placed in service in 2021.
- Section 5.1(b) states that the "second step adjustment reflects adjustments that have been made to the revenue requirement in order to reach settlement."
- Sections 5.1(b) and 5.1(b)(i) establish that the step increase is based on the "revenue requirement" for "certain capital projects," capped at \$3.2 million. There is no reference to any type of rate-base update or similar computation.

Accordingly, the Settlement Agreement does not contemplate or provide for a rate-base update. *See* Appendix 1 to the Settlement Agreement, presenting the actual calculation of the Second Step Adjustment following the steps described above (rather than being executed through a rate-base update) (Exhibit 49 at Bates 031).

However, if calculated as a rate-base update, as suggested by the question, the computation would be as follows:

	Liberty Utilities (E	nergyNorth Natural Distribution Pla		a Liberty	
		CY 2021			
		(A)	(B)		
		Year Beginning	Year Beginning		
Line	Description	1/1/2021	1/1/2022	Reference	
		(A)	(B)		
1	Total Utility Plant in Service	\$ 690,099,380	\$ 732,369,591	Revised F-16 Annual Report Page 17 Line 8	
2	Accumulated Provision for Depreciation	\$ 213,310,740	\$ 230,310,206	Revised F-16 Annual Report Page 17 Line 14	
3	Net Utility Plant	\$ 476,788,640	\$ 502,059,385	Line 1 - Line 2	
4	Gross Distribution Plant Change (year over year)		\$ 42,270,211	Line 1 Col. (B) - Line 1 Col. (A)	
5	Net Distribution Plant Change (year over year)		\$ 25,270,745	_ Line 3 Col. (B) - Line 3 Col. (A)	
				-	
6	Plant in Service (growth related)	\$12,623,219	\$5,612,346	Company calculation	
7	Depreciation (growth related)	325,472	156,122	Company calculation	
8	Net Utility Plant (growth related)	\$ 12,297,748	\$ 5,456,224	 Line 6 - Line 7	
				-	
9	Total Utility Plant in Service (excluding growth)	\$ 677,476,161	\$ 726,757,245	Line 1 - Line 6	
10	Accumulated Provision for Depreciation (excluding growth)	\$ 212,985,268	\$ 230,466,328	Line 2 - Line 7	
11	Net Utility Plant	\$ 464,490,892	\$ 496,290,917	 Line 9 - Line 10	
				-	
12	Gross Distribution Plant Change (year over year) (excluding growth)		\$ 49,281,085	Line 9 Col. (B) - Line 9 Col. (A)	
13	Net Distribution Plant Change (year over year) (excluding growth)		\$ 31,800,025		

Lastly, it should be noted that doing the calculation this way would result in a step of \$3,538,213, capped at the settled amount of \$3.2 million, rather than the actual revenue requirement associated with the 2021 non-growth capital additions of \$3.4 million, or the settled amount of \$3.2 million.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Step 2 Adjustment List of Projects

		Step 2 Aujustment List	of Frojects			
				@ 10% COR		
Line	Project Number	Project Name	<u>Priority</u>	In service \$\$	In service Date	FERC
1	8840-2011	Main Replacement LPP-Restoration	2. Mandated	\$ 2,045,660.95	various	367
2	8840-2024	Nashua Paving	5. Discretionary	\$ 531,718.59	various	367
3	8840-2102	Meter Protection Program	2. Mandated	\$ 484,377.56	12/31/2021	381
4	8840-2103	Cathodic Protection Program	2. Mandated	\$ 511,290.52	12/31/2021	376
5	8840-2105	Replacement Services Random	2. Mandated	\$ 605,038.33	various	380
6	8840-2110	Leak Repairs	2. Mandated	\$ 1,325,263.84	12/31/21	367
7	8840-2111	Main Replacement LPP	2. Mandated	\$ 8,128,527.75	various	367
8	8840-2113	Main Replacement Fitting LPP	5. Discretionary	\$ 560,974.62	12/31/21	367
9	8840-2114	K Meter Replacement Program	5. Discretionary	\$ 380,281.58	12/31/21	381
10	8840-2115	Aldyl-A Replacement Program	5. Discretionary	\$ 110,184.07	10/11/21	367
11	8840-2116	Main Replacement Reactive	5. Discretionary	\$ 350,593.36	various	367
12	8840-2118	Purchase Misc Capital Equipment & Tools	1. Safety	\$ 247,678.76	12/31/2021	394
13	8840-2123	Main Replacement City/State Construction	2. Mandated	\$ 7,864,635.64	various	367
14	8840-2125	Service Replacement Fitting City/State Construction	2. Mandated	\$ 549,782.02	12/31/21	367
15	8840-2131	Gas System Planning & Reliability	5. Discretionary	\$ 959,389.01	various	367
16	8840-2138	IT	5. Discretionary	\$ 351,408.12	12/31/2021	303
17	8840-2190	Transportation	5. Discretionary	\$ 970,392.57	12/31/2021	392
18	8840-2191	Meters	2. Mandated	\$ 1,541,057.32	various	381
19	8843-1819	Keene Expansion CNG Phase I Expansion*	5. Discretionary	\$ 659,613.20	2019	367
20				\$ 28,177,867.81		

21

22 *Keene Phase I CNG expansion costs are recovered according to a risk sharing mechanism.

23 The \$660K includes investment made in 2017-2019 related to installation of the temporary CNG facility, but deferred for recovery

24 purposes until the second step adjustment.

Line	Description		IT	Т	Transmission Mains		Distribution Mains		Services		Meters	Т	ransportation		EN-Tools-Shop- Garage Equip		Total
	FERC Account		303		367		376		380		381		392		394		
1 2	Capital Spending	\$	351,408	\$	23,086,343	\$	511,291	\$	605,038	\$	2,405,716	\$	970,393	\$	247,679	\$	28,177,868
3	Deferred Tax Calculation																
4	Tax Method	_	MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		
5 6	Tax Depreciation Rate		3.75%		3.75%		3.75%		3.75%		3.75%		3.75%		5.26%		
7 8	Bonus Depreciation @ 0.00%	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
9	Tax Basis	\$	351,408	\$	23,086,343	\$	511,291	\$	605,038	\$	2,405,716	\$	970,393	\$	247,679	\$	28,177,86
10 11	MACRS Depreciation	\$	13,178	\$	865,738	\$	19,173	\$	22,689	\$	90,214	\$	36,390	\$	13,028	\$	1,060,41
12	Tax Depreciation - Federal	\$	13,178	\$	865,738	\$	19,173	\$	22,689	\$	90,214	\$	36,390	\$	13,028	\$	1,060,41
13 14	Tax Depreciation - State	\$	13,178	\$	865,738	\$	19,173	\$	22,689	\$	90,214	\$	36,390	\$	13,028	\$	1,060,41
15	Book Depreciation Rate		20.00%		1.92%		2.00%		2.80%		3.13%		20.00%		20.00%		
16 17	Book Depreciation	\$	70,282	\$	443,258	\$	10,226	\$	16,941	\$	75,299	\$	194,079	\$	49,536	\$	859,61
	Tax over (under) Book - Federal	\$	(57,104)	\$	422,480	\$	8,948	\$	5,748	\$	14,915	\$	())	\$	(36,508)	\$	200,79
	Tax over (under) Book - State		(57,104)		422,480		8,948		5,748		14,915		(157,689)		(36,508)		200,79
	Deferred Taxes - Federal @ 21.00%		(11,992)		88,721		1,879		1,207		3,132		(33,115)		(7,667)		42,16
	Deferred Taxes - State @ 7.60%		(4,340)	¢	32,108	¢	680	¢	437	ŕ	1,134	<i>ф</i>	(11,984)	¢	(2,775)	<u>_</u>	15,26
22 23	Deferred Tax Balance @ 0.00%	\$	(16,332)	\$	120,829	\$	2,559	\$	1,644	\$	4,266	\$	(45,099)	\$	(10,441)	\$	57,42
24	Rate Base Calculation																
25	Plant in Service	\$	351,408	\$	23,086,343	\$	511,291	\$	605,038	\$	2,405,716	\$	970,393	\$	247,679	\$	28,177,86
26	Accumulated Depreciation		(70,282)		(443,258)		(10,226)		(16,941)		(75,299)		(194,079)		(49,536)	\$	(859,61
	Deferred Tax Balance		16,332		(120,829)		(2,559)		(1,644)		(4,266)		45,099		10,441	\$	(57,42
28 29	Rate Base	\$	297,458	\$	22,522,256	\$	498,506	\$	586,453	\$	2,326,152	\$	821,413	\$	208,584	\$	27,260,82
	Revenue Requirement Calculation																
31	Return on Rate Base @ 8.75%	\$	26,029	\$	1,970,810	\$	43,622	\$	51,318	\$	203,550	\$	71,878	\$	18,252	\$	2,385,45
	Depreciation Expense		70,282		443,258		10,226		16,941		75,299		194,079		49,536	\$	859,61
	Property Tax @ \$6.60 per \$1000		2,319		152,370		3,375		3,993		15,878		6,405		1,635	\$	185,97
34 35	Annual Revenue Requirement	\$	98,630	\$	2,566,438	\$	57,222	\$	72,252	\$	294,727	\$	272,361	\$	69,423	\$	3,431,05
	Keene CNG Phase I Expansion Reven	ue Requ	irement Adjustn	nent	(per risk sharin	g ca	lculation)										(21,93
38	Total Annual Revenue Requirement															\$	3,409,11
39 40 41																c	Capped at \$3,200,0
42	Rate of Return Calculation*	С	apital Structure	C	Cost of Capital	W	eighted Cost of Capital		Tax Rate	Р	re-Tax WACC						
43	Equity		52.0%		9.30%		4.84%		27.004%		6.63%						
	Debt		48.0%		4.42%		2.12%		27.00470		2.12%						
4.5			40.0%		42.72/0		2.12/0	•			2.12/0						

6.96%

8.75%

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Step 2 Adjustment - Revenue Requirement @ 10% COR

⁴⁶ *As approved in the Settlement Agreement in Docket No. DG 20-105 with exception of the effective tax rate

100.0%

13.72%

45

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Step 2 Adjustment - Illustrative Revenue Requirement (@ 7.5% COR)

e	Description		IT	Т	Transmission Mains		Distribution Mains		Services		Meters	Tı	ransportation		EN-Tools-Shop- Garage Equip		Total
	FERC Account		303	¢	367	¢	376	¢	380	¢	381	¢.	392	¢	394		20.070.507
	Capital Spending	\$	361,169	\$	23,727,630	\$	525,493	\$	621,845	\$	2,472,542	\$	997,348	\$	254,559	\$	28,960,586
_	Deferred Tax Calculation	_															
	Tax Method	-	MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		
	Tax Depreciation Rate		3.75%		3.75%		3.75%		3.75%		3.75%		3.75%		5.26%		
	Bonus Depreciation @ 0.00%	\$	-	\$		\$		\$	_	\$		\$		\$		\$	_
	Bonus Depreciation @ 0.0070	Ļ		Ļ		Ļ		Ļ		ڔ		ç		Ļ		φ	-
	Tax Basis	\$	361,169	\$	23,727,630	\$	525,493	\$	621,845	\$	2,472,542	\$	997,348	\$	254,559	\$	28,960,586
	MACRS Depreciation	\$	13,544	\$	889,786	\$	19,706	\$	23,319	\$	92,720	\$	37,401	\$	13,390	\$	1,089,866
	Tax Depreciation - Federal	\$	13,544		889,786		19,706		23,319		92,720		37,401		13,390	\$	1,089,866
	Tax Depreciation - State	\$	13,544	\$	889,786	\$	19,706	\$	23,319	\$	92,720	\$	37,401	\$	13,390	\$	1,089,866
	Book Depreciation Rate		20.00%		1.92%		2.00%		2.80%		3.13%		20.00%		20.00%		
	Book Depreciation Rate	\$	72,234	\$	455,571		10,510	\$	17,412	\$	77,391	\$	199,470	\$	50,912	\$	883,498
	Book Depreciation	φ	72,254	φ	-55,571	φ	10,510	φ	17,412	φ	77,591	φ	177,470	φ	50,912	φ	005,490
	Tax over (under) Book - Federal	\$	(58,690)	\$	434,216	\$	9,196	\$	5,908	\$	15,330	\$	(162,069)	\$	(37,522)	\$	206,368
	Tax over (under) Book - State		(58,690)		434,216		9,196		5,908		15,330		(162,069)		(37,522)		206,368
	Deferred Taxes - Federal @ 21.00%		(12,325)		91,185		1,931		1,241		3,219		(34,034)		(7,880)		43,337
_	Deferred Taxes - State @ 7.60%		(4,460)		33,000		699		449		1,165		(12,317)		(2,852)		15,684
-	Deferred Tax Balance @ 0.00%	\$	(16,785)	\$	124,186	\$	2,630	\$	1,690	\$	4,384	\$	(46,352)	\$	(10,731)	\$	59,021
	Rate Base Calculation																
	Plant in Service	- \$	361,169	\$	23,727,630	\$	525,493	\$	621,845	\$	2,472,542	\$	997,348	\$	254,559	\$	28,960,586
	Accumulated Depreciation		(72,234)		(455,571)		(10,510)		(17,412)		(77,391)		(199,470)		(50,912)	\$	(883,498
	Deferred Tax Balance		16,785		(124,186)		(2,630)		(1,690)		(4,384)		46,352		10,731	\$	(59,021
	Rate Base	\$	305,721	\$	23,147,874	\$	512,353	\$	602,744	\$	2,390,767	\$	844,230	\$	214,378	\$	28,018,067
	Revenue Requirement Calculation																
	Return on Rate Base @ 8.75%	\$	26,752	¢	2,025,555	¢	44,833	¢	52,743	¢	209,204	¢	73,874	¢	18,759	\$	2,451,721
	Depreciation Expense	φ	72,234	φ	455,571	φ	10,510	φ	17,412	φ	77,391	φ	199,470	ф	50,912	\$	883,498
	Property Tax @ \$6.60 per \$1000		2,384		156,602		3,468		4,104		16,319		6,582		1,680	\$	191,140
	Annual Revenue Requirement	\$		\$	2,637,728	\$	58,812	\$	74,259	\$	302,913	\$	279,926	\$	71,351	\$	3,526,359
1	q	-		*	_,	*	,	*	,=•>	*	,	*	,	*	,	-	•,•=•,•••,
	Keene CNG Phase I Expansion Revenu	ie Requ	irement Adjustr	nent	(per risk sharin	ig ca	lculation)										(21,93)
																	2 504 42
	Total Annual Revenue Requirement															2	3,504,420
																C	Capped at \$3,200,00
ĺ	Rate of Return Calculation*	C	apital Structure	ſ	Cost of Capital	W	eighted Cost of		Tax Rate	P	re-Tax WACC						
		C		C			Capital			r							
	Equity		52.0%		9.30%		4.84%		27.004%		6.63%						
	Debt		48.0%		4.42%		2.12%				2.12%						
			100.0%		13.72%		6.96%				8.75%						

46 *As approved in the Settlement Agreement in Docket No. DG 20-105 with exception of the effective tax rate

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Step 2 Adjustment - Illustrative Revenue Requirement (@ 4.74% COR)

e	Description		IT	Т	ransmission Mains		Distribution Mains		Services		Meters	Tr	ansportation		EN-Tools-Shop- Garage Equip		Total
C	FERC Account Capital Spending	\$	303 371,946	\$	367 24,435,612	\$	376 541,173	\$	380 640,399	\$	381 2,546,317	\$	<i>392</i> 1,027,107	\$	<i>394</i> 262,154	\$	29,824,708
Ε	Deferred Tax Calculation																
Т	ax Method	-	MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		MACRS20		
Т	ax Depreciation Rate		3.75%		3.75%		3.75%		3.75%		3.75%		3.75%		5.26%		
E	Bonus Depreciation @ 0.00%	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Т	ax Basis	\$	371,946	\$	24,435,612	\$	541,173	\$	640,399	\$	2,546,317	\$	1,027,107	\$	262,154	\$	29,824,70
Ν	ACRS Depreciation	\$	13,948	\$	916,335	\$	20,294	\$	24,015	\$	95,487	\$	38,516	\$	13,789	\$	1,122,38
т	ax Depreciation - Federal	\$	13,948	s	916,335	s	20.294	\$	24,015	\$	95,487	\$	38,516	\$	13,789	\$	1,122,38
	Tax Depreciation - State	\$	13,948		916,335		20,294		24,015		95,487		38,516		13,789	\$	1,122,38
Б	Book Depreciation Rate		20.00%		1.92%		2.00%		2 800/		2 1 20/		20.00%		20.00%		
	Book Depreciation Rate	\$	20.00% 74,389		469,164		10,823	¢	2.80% 17,931	¢	3.13% 79,700	¢	20.00%	¢	20.00% 52,431	\$	909.85
E	sook Depreciation	2	/4,389	\$	409,104	\$	10,825	\$	17,931	Э	/9,/00	Э	205,421	\$	52,431	\$	909,83
Т	ax over (under) Book - Federal	\$	(60,441)	\$	447,172	\$	9,471	\$	6,084	\$	15,787	\$	(166,905)	\$	(38,642)	\$	212,5
Т	ax over (under) Book - State		(60,441)		447,172		9,471		6,084		15,787		(166,905)		(38,642)		212,5
Γ	Deferred Taxes - Federal @ 21.00%		(12,693)		93,906		1,989		1,278		3,315		(35,050)		(8,115)		44,6
Γ	Deferred Taxes - State @ 7.60%		(4,594)		33,985		720		462		1,200		(12,685)		(2,937)		16,13
Γ	Deferred Tax Balance @ 0.00%	\$	(17,286)	\$	127,891	\$	2,709	\$	1,740	\$	4,515	\$	(47,735)	\$	(11,051)	\$	60,78
R	tate Base Calculation	_															
	lant in Service	\$	371,946	\$	24,435,612	\$	541,173	\$	640,399	\$	2,546,317	\$	1,027,107	\$	262,154	\$	29,824,70
Α	accumulated Depreciation		(74,389)		(469,164)		(10,823)		(17,931)		(79,700)		(205,421)		(52,431)	\$	(909,85
Γ	Deferred Tax Balance		17,286		(127,891)		(2,709)		(1,740)		(4,515)		47,735		11,051	\$	(60,78
_	Rate Base	\$	314,843	\$	23,838,557	\$	527,641	\$	620,728	\$	2,462,102	\$	869,420	\$	220,775	\$	28,854,00
	Revenue Requirement Calculation	_															
	Return on Rate Base @ 8.75%	\$	27,550	\$	2,085,993	\$	46,171	\$	54,317	\$	215,446	\$	76,079	\$	19,319	\$	2,524,87
	Depreciation Expense		74,389		469,164		10,823		17,931		79,700		205,421		52,431	\$	909,85
_	roperty Tax @ \$6.60 per \$1000		2,455		161,275		3,572		4,227		16,806		6,779		1,730	\$	196,84
A	Annual Revenue Requirement	\$	104,394	\$	2,716,432	\$	60,566	\$	76,475	\$	311,952	\$	288,279	\$	73,480	\$	3,631,57
ŀ	Keene CNG Phase I Expansion Reven	ue Requ	ıirement Adjustı	nent	t (per risk sharin	ıg ca	alculation)										(21,93
Т	otal Annual Revenue Requirement															\$	3,609,64
	·																· · ·
r						11	laighted Coot of									(Capped at \$3,200,0
F	ate of Return Calculation*	C	apital Structure	C	Cost of Capital	W	eighted Cost of Capital		Tax Rate	Р	re-Tax WACC						
E	Equity		52.0%		9.30%		4.84%		27.004%		6.63%						
	Debt		48.0%		4.42%		2.12%				2.12%						

46 *As approved in the Settlement Agreement in Docket No. DG 20-105 with exception of the effective tax rate

10.29%

2.31%

Line No.		·		
1		ACCOUNT 37	6 (FERC) / 356 (PUC)	
2				
3	YEAR	<u>10% COR \$</u>	ADDITIONS	ACTUAL % OF ADDITIONS
4	2017	\$1,844,577	\$24,208,292	7.62%
5				
6	2018	\$2,120,343	\$26,413,138	8.03%
7				
8	2019	\$2,668,831	\$31,386,745	8.50%
9				
10	2020	\$1,755,461	\$55,196,416	3.18%
11				
12	2021	\$1,596,018	\$24,086,483	6.63%
13				
14	TOTAL	\$9,985,230	\$161,291,074	6.19%
15				
16				
17		ACCOUNT 38	0 (FERC) / 359 (PUC)	
18				
19	YEAR	<u>10% COR \$</u>	ADDITIONS	ACTUAL % OF ADDITIONS
20	2017	\$360,033	\$6,272,660	5.74%
21				
22	2018	\$203,381	\$12,021,682	1.69%
23				
24	2019	\$278,625	\$12,150,467	2.29%
25				
26	2020	\$279,700	\$25,738,174	1.09%
27				

\$226,993

\$1,348,732

\$2,206,375

\$58,389,358

28

29

30

2021

TOTAL

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. d/b/a LIBERTY

1.73%

		••••••		
Line No.				
1		ACCOUNT 37	'6 (FERC) / 356 (PUC)	
2				
3	YEAR	<u>7.5% COR \$</u>	ADDITIONS	ACTUAL % OF ADDITIONS
4	2017	\$1,383,433	\$24,208,292	5.71%
5				
6	2018	\$1,590,257	\$26,413,138	6.02%
7				
8	2019	\$2,001,623	\$31,386,745	6.38%
9				
10	2020	\$1,316,596	\$55,196,416	2.39%
11				
12	2021	\$1,197,014	\$24,086,483	4.97%
13				
14	TOTAL	\$7,488,923	\$161,291,074	4.64%
15				
16				
17		ACCOUNT 38	80 (FERC) / 359 (PUC)	
18				
19	YEAR	7.5% COR \$	ADDITIONS	ACTUAL % OF ADDITIONS
20	2017	\$270,025	\$6,272,660	4.30%
21				
22	2018	\$152,536	\$12,021,682	1.27%
23				
24	2019	\$208,969	\$12,150,467	1.72%
25				
26	2020	\$209,775	\$25,738,174	0.82%
27				
28	2021	\$170,245	\$2,206,375	7.72%

\$1,011,549

29

30

TOTAL

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. d/b/a LIBERTY

\$58,389,358

1.09%

Line No.				
1		ACCOUNT 37	'6 (FERC) / 356 (PUC)	
2				
3	YEAR	<u>4.74% COR \$</u>	ADDITIONS	ACTUAL % OF ADDITIONS
4	2017	\$874,329	\$24,208,292	3.61%
5				
6	2018	\$1,005,043	\$26,413,138	3.81%
7				
8	2019	\$1,265,026	\$31,386,745	4.03%
9				
10	2020	\$832,089	\$55,196,416	1.51%
11				
12	2021	\$756,513	\$24,086,483	3.14%
13				
14	TOTAL	\$4,732,999	\$161,291,074	2.93%
15				
16				
17		ACCOUNT 38	80 (FERC) / 359 (PUC)	
18				
19	YEAR	<u>4.74% COR \$</u>	ADDITIONS	ACTUAL % OF ADDITIONS
20	2017	\$170,656	\$6,272,660	2.72%
21				
22	2018	\$96,403	\$12,021,682	0.80%
23				
24	2019	\$132,068	\$12,150,467	1.09%
25				
26	2020	\$132,578	\$25,738,174	0.52%
27				
28	2021	\$107,595	\$2,206,375	4.88%
29				

\$639,299

TOTAL

30

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. d/b/a LIBERTY

\$58,389,358

FERC ACCOUNT NUMBER	DESCRIPTION	PLANT BALANCE @12/31/2021	DISP TYPE	ASL	ACCRUAL RATE W/O NET SALV.	ACCRUAL WITHOUT NET SALV.	NET SALV. %	SALV. FACTOR	ACCRUAL RATE W/ NET SALV.	ACCRUAL WITH NET SALV.	THEO. RSV. WITHOUT NET SALV.	Theo. RSV. With Net Salv.	BOOK RSV. @12/31/2021	RESERVE VARIANCE	COR RATE %
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	TION PLANT_ JRES AND IMPROVEMENTS	852,167	R 1.0	35.0	2.86	24.372	0	1.00	2.86	24,372	415,746	415,746	135,156	280,590	0.00
319.00 GAS MIXIN		691,821	R 1.0	20.0	5.00	34,591	0	1.00	5.00	34,591	209,352	209,352	301,851	-92,499	0.0
320.00 OTHER EC		461,363	R 1.0	35.0	2.86	13,195	0	1.00	2.86	13,195	76,738	76,738	-13,334	90,072	0.0
320.10 OTHER EG		<u>3,426,407</u>	R 1.0	35.0	2.86	<u>97,995</u>	0	1.00	2.86	97,995	<u>2,140,520</u>	<u>2,140,520</u>	404,978	<u>1,735,542</u>	0.0
	EPREC. PRODUCTION PLANT	5,431,758	1.0	31.9	3.13	170,153	Ū	1.00	3.13	170,153	2,842,356	2,842,356	828,651	2,013,705	0.0
STORAGE															
	JRES AND IMPROVEMENTS-LNG	96,980	R 1.0	35.0	2.86	2,774	0	1.00	2.86	2,774	23,372	23,372	24,172	-800	0.0
363.50 OTHER EC		7,646	R 1.0	35.0	2.86	<u>219</u>	0	1.00	2.86	219	2,513	2,513	2,553	-40	0.0
TOTAL DE	EPREC. STORAGE PLANT	104,626		35.0	2.86	2,993			2.86	2,993	25,885	25,885	26,725	-840	
	TERMINATING AND PROCESSING PLANT JRES AND IMPROVEMENTS-LNG	952.003	R 1.0	35.0	2.86	27,227	0	1.00	2.86	27,227	218,338	218,338	474,687	-256,349	0.0
364.80 OTHER EC		3,896,019	R 1.0	35.0	2.86	111,426	0	1.00	2.86	111,426	1,661,847	1,661,847	2,623,007	-250,349	0.0
	EPREC. LNG TERM. AND PROCESS. PLANT	4,848,022	1.0	35.0	2.86	138,653	Ū	1.00	2.86	138,653	1,880,185	1,880,185	3,097,694	-1,217,509	0.0
TRANSMIS	SSION PLANT														
367.00 MAINS		11,710,542	R 3.0	60.0	1.67	195,566	-15	1.15	1.92	224,842	3,750,667	4,313,267	3,894,029	419,238	0.2
369.00 MEASURIN	NG AND REGULATING STATION EQUIP.	138,182	S 4.0	35.0	2.86	3,952	0	1.00	2.86	3,952	<u>69,417</u>	69,417	-72,870	142,287	0.0
TOTAL DE	EPREC. TRANSMISSION PLANT	11,848,724		59.5	1.68	199,518			1.93	228,794	3,820,084	4,382,684	3,821,159	561,525	
	<u>ITION PLANT</u> JRES AND IMPROVEMENTS	1,761,490	R 1.0	35.0	2.86	50,379	0	1.00	2.86	50,379	216,622	216,622	309,313	-92,691	0.0
376.00 MAINS		366,964,216	R 3.0	60.0	1.67	6,128,302	-15	1.15	1.92	7,045,713	73,034,778	83,989,995	68,131,515	15,858,480	0.0
	SSOR STATION EQUIPMENT	2,246,186	R 1.0	35.0	2.86	64,241	0	1.00	2.86	64,241	256,266	256,266	321,205	-64,939	0.0
	ID REG. STATION EQUIPMENT-GENERAL	8,592,345	S 2.0	35.0	2.86	245,741	0	1.00	2.86	245,741	3,819,817	3,819,817	4,662,297	-842,480	0.0
	ID REG. STATION EQUIPMENT-CITY GATE	5,431,082	S 3.0	35.0	2.86	155,329	0	1.00	2.86	155,329	1,490,217	1,490,217	1,612,222	-122,005	0.0
380.00 SERVICES		198,967,012	R 4.0	50.0	2.00	3,979,340	-60	1.60	3.20	6,366,944	54,642,755	87,428,408	93,924,182	-6,495,774	1.2
381.00 METERS		19,992,831	S 3.0	30.0	3.33	665,761	0	1.00	3.33	665,761	6,124,130	6,124,130	4,661,801	1,462,329	0.0
381.10 METERS-IN	INSTRUMENT	254,439	S 3.0	30.0	3.33	8,473	0	1.00	3.33	8,473	111,711	111,711	113,219	-1,508	0.0
381.20 METERS-E	ERTS	6,347,958	SQ	15.0	6.67	423,409	0	1.00	6.67	423,409	4,768,023	4,768,023	4,456,153	311,870	0.0
382.00 METER IN	ISTALLATIONS	27,070,444	R 3.0	30.0	3.33	901,446	0	1.00	3.33	901,446	6,039,287	6,039,287	5,791,940	247,347	0.0
385.00 INDUSTRIA	IAL MEASURING & REGULATING EQUIPMENT	53,375	S 6.0	19.0	5.26	2,808	0	1.00	5.26	2,808	15,451	15,451	7,819	7,632	0.0
387.00 OTHER EC	QUIPMENT	2,487,707	S 6.0	19.0	5.26	130,853	0	1.00	5.26	130,853	1,306,073	1,306,073	1,355,277	-49,204	0.0
TOTAL DE	EPREC. DISTRIBUTION PLANT	640,169,085		50.2	1.99	12,756,082			2.51	16,061,097	151,825,130	195,566,000	185,346,943	10,219,057	
GENERAL		05 004 070	B 00	40.0	0.50	040 047	0	4.00	0.50	040.047	5 400 600	5 400 000	0.007.010	1 000 000	
	JRES AND IMPROVEMENTS URNITURE AND EQUIP.	25,864,673	R 3.0 S 4.0	40.0	2.50	646,617	0	1.00 0.95	2.50	646,617	5,188,262	5,188,262	6,287,342	-1,099,080	0.0 0.0
	URNITURE AND EQUIP. URNITURE AND EQUIPCOMPUTERS	1,871,855 883,183	S 4.0 S 4.0	15.0 10.0	6.67 10.00	124,853 88.318	5 0	0.95	6.34 10.00	118,676 88.318	317,133 600,581	301,276 600,581	225,753 66,754	75,523 533.827	0.0
	URNITURE AND EQUIPCOMPUTERS	883,183	S 4.0 S 4.0	5.0	20.00	175,746	0	1.00	20.00	88,318 175,746	777,138	777,138	866,695	533,827 -89,557	0.0
393.00 STORES E		107,831	S 4.0 SQ	30.0	3.33	3,591	0	1.00	3.33	3,591	37,401	37,401	38,003	-69,557	0.0
	HOP & GARAGE EQUIPMENT	4,359,715	S 6.0	30.0 19.0	5.26	229,321	0	1.00	5.26	229,321	1,188,607	1,188,607	1,147,390	-602 41,217	0.0
	ICATION EQUIPMENT	4,359,715 941.816	S 0.0 SQ	19.0	10.00	94,182	0	1.00	5.26 10.00	94,182	556,907	556,907	652,209	-95,302	0.0
	ANEOUS GENERAL EQUIPMENT	<u>869,377</u>	S 5.0	15.0	6.67	<u>57,987</u>	0	1.00	6.67	<u>57,987</u>	<u>298,865</u>	<u>298,865</u>	<u>322,526</u>	- <u>33,302</u> - <u>23,661</u>	0.0
	EPREC. GENERAL PLANT	35,777,182	0.0	25.2	3.97	1,420,615	5		3.95	1,414,438	8,964,894	8,949,037	9,606,672	-657,635	0.0
TOTAL DE	EPREC. GAS PLANT	698,179,397		47.6	2.10	14,688,014			2.58	18,016,128	169,358,534	213,646,147	202,727,844	10,918,303	
												No	te: Col.13/Col. 11	5.11%	

FERC ACCOUNT DESCRIPTION	PLANT	DISP	ASL	ACCRUAL	ACCRUAL	NET	SALV.	ACCRUAL	ACCRUAL	THEO, RSV.	THEO, RSV.	BOOK RSV.	RESERVE	COR
NUMBER	BALANCE @12/31/2021	TYPE		RATE W/O NET SALV.	WITHOUT NET SALV.	SALV. %	FACTOR	RATE W/ NET SALV.	WITH NET SALV.	WITHOUT NET SALV.	WITH NET SALV.	@12/31/2021	VARIANCE	RATE %
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
AMORTIZED PLANT														
CAPITALIZED SOFTWARE														
303.10 CAPITALIZED SOFTWARE- 3 YEARS	2,332,280		3.0	33.33	777,349	0	1.00	33.33	777,349			1,019,860		0.00
303.20 CAPITALIZED SOFTWARE- 5 YEARS	12,961,962		5.0	20.00	2,592,392	0	1.00	20.00	2,592,392			13,365,176		0.00
303.40 CAPITALIZED SOFTWARE- 10 YEARS	3,893,722		10.0	10.00	389,372	0	1.00	10.00	389,372			3,173,692		0.00
303.50 CAPITALIZED SOFTWARE- 10 YEARS	779,858		10.0	10.00	77,986	0	1.00	10.00	77,986			537,439		0.00
303.60 CAPITALIZED SOFTWARE- 10 YEARS	<u>1,034,809</u>		10.0	10.00	103,481	0	1.00	10.00	103,481			671,164		0.00
TOTAL ACCOUNT 303	21,002,631		5.3	18.76	3,940,580			18.76	3,940,580			18,767,331		
392 TRANSPORTATION EQUIPMENT	11,420,704		5.0	20.00	2,284,141	0	1.00	20.00	2,284,141			7,944,855		0.00
396 POWER OPERATED EQUIPMENT	862,889		5.0	20.00	172,578	0	1.00	20.00	172,578			691,862		0.00
TOTAL AMORTIZED PLANT	33,286,224		5.2	19.22	6,397,299			19.22	6,397,299			27,404,048		
TOTAL DEPREC. & AMORTIZED GAS PLANT	731,465,621		34.7	2.88	21,085,313			3.34	24,413,427			230,131,892		
1050 PLANT HELD FOR FUTURE USE	852,305													
1210 OPI-LAND-RETAINED	13,665													
1211 OPI-STRUCTURES-RETAINED	133,284											133,284		
3020 FRANCHISES AND CONSENTS	250,950													
3040 LAND RIGHTS OWNED	97,504													
3641 LNG PROCSS LAND AND LAND RIGHTS	57,315													
3740 DISTR LAND & LAND RIGHTS	376,710													
3890 GNL LAND RIGHTS	121,489													
DIFF. IN BOOK RSV VS. PUC ANNUAL REPORT												45,029		
TOTAL GAS PLANT IN SERVICE	733,368,843											230,310,205		

7.5% COR ADJ.

ACCOUNT NUMBER	DESCRIPTION	PLANT BALANCE @12/31/2021	DISP TYPE	ASL	ACCRUAL RATE W/O NET SALV.	ACCRUAL WITHOUT NET SALV.	NET SALV. %	SALV. FACTOR	ACCRUAL RATE W/ NET SALV.	ACCRUAL WITH NET SALV.	THEO. RSV. WITHOUT NET SALV.	THEO. RSV. WITH NET SALV.	BOOK RSV. @12/31/2021	RESERVE VARIANCE	COR RATE %
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
PRODUCTIO	ION PLANT	852,167	R 1.0	35.0	2.86	24,372	0	1.00	2.86	24,372	415,746	415,746	135,156	280,590	0.0
319.00 GAS MIXIN		691,821	R 1.0	20.0	5.00	34,591	0	1.00	2.00	24,572 34,591	209,352	209,352	301,851	-92,499	0.0
320.00 OTHER EQ		461,363	R 1.0	20.0 35.0	2.86	13,195	0	1.00	2.86	13,195	209,352 76,738	209,352	-13,334	-92,499 90,072	0.0
320.10 OTHER EQ		<u>3,426,407</u>	R 1.0	35.0	2.86	<u>97,995</u>	0	1.00	2.86	<u>97,995</u>	<u>2,140,520</u>	<u>2,140,520</u>	<u>404,978</u>	<u>1,735,542</u>	0.0
	PREC. PRODUCTION PLANT	5,431,758	1.0	31.9	3.13	170,153	Ū	1.00	3.13	170,153	2,842,356	2,842,356	828,651	2,013,705	0.0
STORAGE	PLANT														
361.00 STRUCTUR	RES AND IMPROVEMENTS-LNG	96,980	R 1.0	35.0	2.86	2,774	0	1.00	2.86	2,774	23,372	23,372	24,172	-800	0.0
363.50 OTHER EQ		7,646	R 1.0	35.0	2.86	<u>219</u>	0	1.00	2.86	219	2,513	2,513	2,553	-40	0.0
TOTAL DEF	PREC. STORAGE PLANT	104,626		35.0	2.86	2,993			2.86	2,993	25,885	25,885	26,725	-840	
	TERMINATING AND PROCESSING PLANT	052.002	B 10	35.0	2.96	07 007	0	1.00	2.86	07 007	010 000	010 000	474 697	256 340	0.0
364.20 STRUCTUR 364.80 OTHER EQ	RES AND IMPROVEMENTS-LNG	952,003	R 1.0 R 1.0	35.0 35.0	2.86 2.86	27,227	0	1.00	2.86	27,227	218,338	218,338	474,687	-256,349	0.0 0.0
	PREC. LNG TERM. AND PROCESS. PLANT	<u>3,896,019</u> 4,848,022	K 1.0	35.0	2.86	<u>111,426</u> 138,653	U	1.00	2.86 2.86	<u>111,426</u> 138,653	<u>1,661,847</u> 1,880,185	<u>1,661,847</u> 1,880,185	<u>2,623,007</u> 3,097,694	<u>-961,160</u> -1,217,509	0.0
TRANSMIS	SION PLANT														
367.00 MAINS		11,710,542	R 3.0	60.0	1.67	195,566	-15	1.15	1.92	224,842	3,750,667	4,313,267	3,894,029	419,238	0.2
369.00 MEASURIN	IG AND REGULATING STATION EQUIP.	138,182	S 4.0	35.0	2.86	<u>3,952</u>	0	1.00	2.86	3,952	69,417	69,417	-72,870	142,287	0.0
TOTAL DEF	PREC. TRANSMISSION PLANT	11,848,724		59.5	1.68	199,518			1.93	228,794	3,820,084	4,382,684	3,821,159	561,525	
-	TION PLANT														
	RES AND IMPROVEMENTS	1,761,490	R 1.0	35.0	2.86	50,379	0	1.00	2.86	50,379	216,622	216,622	309,313	-92,691	0.0
376.00 MAINS		366,964,216	R 3.0	60.0	1.67	6,128,302	-15	1.15	1.92	7,045,713	73,034,778	83,989,995	70,627,822	13,362,173	0.2
	SOR STATION EQUIPMENT	2,246,186	R 1.0	35.0	2.86	64,241	0	1.00	2.86	64,241	256,266	256,266	321,205	-64,939	0.0
	D REG. STATION EQUIPMENT-GENERAL	8,592,345	S 2.0	35.0	2.86	245,741	0	1.00	2.86	245,741	3,819,817	3,819,817	4,662,297	-842,480	0.0
	D REG. STATION EQUIPMENT-CITY GATE	5,431,082	S 3.0	35.0	2.86	155,329	0	1.00	2.86	155,329	1,490,217	1,490,217	1,612,222	-122,005	0.0
380.00 SERVICES 381.00 METERS		198,967,012 19,992,831	R 4.0 S 3.0	50.0 30.0	2.00 3.33	3,979,340 665,761	-60 0	1.60 1.00	3.20 3.33	6,366,944 665,761	54,642,755 6,124,130	87,428,408 6,124,130	94,261,365 4,661,801	-6,832,957 1,462,329	1.2 0.0
381.10 METERS-IN	ISTRUMENT	254,439	S 3.0	30.0	3.33	8.473	0	1.00	3.33	8,473	111,711	111,711	113,219	-1,508	0.0
381.20 METERS-EI		6,347,958	SQ	15.0	6.67	423,409	0	1.00	6.67	423,409	4,768,023	4,768,023	4,456,153	311,870	0.0
382.00 METER INS		27,070,444	R 3.0	30.0	3.33	901,446	0	1.00	3.33	901,446	6,039,287	6,039,287	5,791,940	247,347	0.0
	AL MEASURING & REGULATING EQUIPMENT	53,375	S 6.0	19.0	5.26	2,808	0	1.00	5.26	2,808	15,451	15,451	7,819	7,632	0.0
387.00 OTHER EQ		2,487,707	S 6.0	19.0	5.26	130,853	0	1.00	5.26	130,853	1,306,073	1,306,073	1,355,277	-49,204	0.0
TOTAL DEF	PREC. DISTRIBUTION PLANT	640,169,085		50.2	1.99	12,756,082			2.51	16,061,097	151,825,130	195,566,000	188,180,433	7,385,567	
GENERAL I															
	RES AND IMPROVEMENTS	25,864,673	R 3.0	40.0	2.50	646,617	0	1.00	2.50	646,617	5,188,262	5,188,262	6,287,342	-1,099,080	0.0
	IRNITURE AND EQUIP.	1,871,855	S 4.0	15.0	6.67	124,853	5	0.95	6.34	118,676	317,133	301,276	225,753	75,523	0.0
	IRNITURE AND EQUIPCOMPUTERS	883,183	S 4.0	10.0	10.00	88,318	0	1.00	10.00	88,318	600,581	600,581	66,754	533,827	0.0
	IRNITURE AND EQUIPLAPTOP COMP.	878,732	S 4.0	5.0	20.00	175,746	0	1.00	20.00	175,746	777,138	777,138	866,695	-89,557	0.0
393.00 STORES E0		107,831	SQ	30.0	3.33	3,591	0	1.00	3.33	3,591	37,401	37,401	38,003	-602	0.0
	HOP & GARAGE EQUIPMENT	4,359,715	S 6.0	19.0	5.26	229,321	0	1.00	5.26	229,321	1,188,607	1,188,607	1,147,390	41,217	0.0
		941,816	SQ	10.0	10.00	94,182	0	1.00	10.00	94,182	556,907	556,907	652,209	-95,302	0.0
	NEOUS GENERAL EQUIPMENT PREC. GENERAL PLANT	<u>869,377</u> 35,777,182	S 5.0	15.0 25.2	6.67 3.97	<u>57.987</u> 1,420,615	0	1.00	6.67 3.95	<u>57,987</u> 1,414,438	<u>298,865</u> 8,964,894	<u>298,865</u> 8,949,037	<u>322,526</u> 9,606,672	<u>-23,661</u> -657,635	0.0
				47.6					2.58						
TOTAL DEF	PREC. GAS PLANT	698,179,397		47.0	2.10	14,688,014			2.58	18,016,128	169,358,534	213,646,147	205,561,334 te: Col.13/Col. 11	8,084,813 3.78%	

7.5% COR ADJ.

FERC		DIOD	4.01	4.00DU 41	A00001141	NET	0.01.1/							000
ACCOUNT DESCRIPTION NUMBER	PLANT BALANCE @12/31/2021	DISP TYPE	ASL	ACCRUAL RATE W/O NET SALV.	ACCRUAL WITHOUT NET SALV.	NET SALV. %	SALV. FACTOR	ACCRUAL RATE W/ NET SALV.	ACCRUAL WITH NET SALV.	THEO. RSV. WITHOUT NET SALV.	THEO. RSV. WITH NET SALV.	BOOK RSV. @12/31/2021	RESERVE VARIANCE	COR RATE %
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
AMORTIZED PLANT														
CAPITALIZED SOFTWARE														
303.10 CAPITALIZED SOFTWARE- 3 YEARS	2,332,280		3.0	33.33	777,349	0	1.00	33.33	777,349			1,019,860		0.00
303.20 CAPITALIZED SOFTWARE- 5 YEARS	12,961,962		5.0	20.00	2,592,392	0	1.00	20.00	2,592,392			13,365,176		0.00
303.40 CAPITALIZED SOFTWARE- 10 YEARS	3,893,722		10.0	10.00	389,372	0	1.00	10.00	389,372			3,173,692		0.00
303.50 CAPITALIZED SOFTWARE- 10 YEARS	779,858		10.0	10.00	77,986	0	1.00	10.00	77,986			537,439		0.00
303.60 CAPITALIZED SOFTWARE- 10 YEARS	<u>1,034,809</u>		10.0	10.00	103,481	0	1.00	10.00	103,481			671,164		0.00
TOTAL ACCOUNT 303	21,002,631		5.3	18.76	3,940,580			18.76	3,940,580			18,767,331		
392 TRANSPORTATION EQUIPMENT	11,420,704		5.0	20.00	2,284,141	() 1.00	20.00	2,284,141			7,944,855		0.00
396 POWER OPERATED EQUIPMENT	862,889		5.0	20.00	172,578	(0 1.00	20.00	172,578			691,862		0.00
TOTAL AMORTIZED PLANT	33,286,224		5.2	19.22	6,397,299			19.22	6,397,299			27,404,048		
TOTAL DEPREC. & AMORTIZED GAS PL	ANT 731,465,621		34.7	2.88	21,085,313			3.34	24,413,427			232,965,382		
1050 PLANT HELD FOR FUTURE USE	852,305													
1210 OPI-LAND-RETAINED	13,665													
1211 OPI-STRUCTURES-RETAINED	133,284											133,284		
3020 FRANCHISES AND CONSENTS	250,950													
3040 LAND RIGHTS OWNED	97,504													
3641 LNG PROCSS LAND AND LAND RIGHTS	57,315													
3740 DISTR LAND & LAND RIGHTS	376,710													
3890 GNL LAND RIGHTS	121,489													
DIFF. IN BOOK RSV VS. PUC ANNUAL R	EPORT											45,029		
TOTAL GAS PLANT IN SERVICE	733,368,843											233,143,695		

4.74% COR ADJ.

CCOUNT	DESCRIPTION	PLANT	DISP	ASL	ACCRUAL	ACCRUAL	NET	SALV.	ACCRUAL	ACCRUAL	THEO. RSV.	THEO. RSV.	BOOK RSV.	RESERVE	COR
NUMBER	DESCRIPTION	BALANCE	TYPE	ASL	RATE W/O	WITHOUT	SALV.	FACTOR	RATE W/	WITH	WITHOUT	WITH	@12/31/2021	VARIANCE	RATE
		@12/31/2021			NET SALV.	NET SALV.	%		NET SALV.	NET SALV.	NET SALV.	NET SALV.	0		%
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
PRODUCTIO															
305.00 STRUCTURES AND IMPROVEMENTS		852,167 691,821	R 1.0	35.0	2.86	24,372	0	1.00	2.86	24,372	415,746	415,746	135,156	280,590	
	319.00 GAS MIXING EQUIPMENT		R 1.0	20.0	5.00	34,591	0	1.00	5.00	34,591	209,352	209,352	301,851	-92,499	
320.00 OTHER EQUIPMENT-LNG		461,363	R 1.0	35.0	2.86	13,195	0	1.00	2.86	13,195	76,738	76,738	-13,334	90,072	
320.10 OTHER EQUIPMENT		3,426,407	R 1.0	35.0	2.86	97,995	0	1.00	2.86	97,995	2,140,520	2,140,520	404,978	1,735,542	
TOTAL DEP	PREC. PRODUCTION PLANT	5,431,758		31.9	3.13	170,153			3.13	170,153	2,842,356	2,842,356	828,651	2,013,705	
STORAGE F															
	RES AND IMPROVEMENTS-LNG	96,980	R 1.0	35.0	2.86	2,774	0	1.00	2.86	2,774	23,372	23,372	24,172	-800	
363.50 OTHER EQU		7,646	R 1.0	35.0	2.86	<u>219</u>	0	1.00	2.86	219	<u>2,513</u>	<u>2,513</u>	2,553	-40	
TOTAL DEP	PREC. STORAGE PLANT	104,626		35.0	2.86	2,993			2.86	2,993	25,885	25,885	26,725	-840	
	ERMINATING AND PROCESSING PLANT														
	RES AND IMPROVEMENTS-LNG	952,003	R 1.0	35.0	2.86	27,227	0	1.00	2.86	27,227	218,338	218,338	474,687	-256,349	
364.80 OTHER EQU		3,896,019	R 1.0	35.0	2.86	111,426	0	1.00	2.86	111,426	1,661,847	1,661,847	2,623,007	-961,160	
TOTAL DEP	PREC. LNG TERM. AND PROCESS. PLANT	4,848,022		35.0	2.86	138,653			2.86	138,653	1,880,185	1,880,185	3,097,694	-1,217,509	
	SION PLANT														
367.00 MAINS		11,710,542	R 3.0	60.0	1.67	195,566	-15	1.15	1.92	224,842	3,750,667	4,313,267	3,894,029	419,238	
	G AND REGULATING STATION EQUIP.	<u>138,182</u>	S 4.0	35.0	2.86	<u>3,952</u>	0	1.00	2.86	3,952	<u>69,417</u>	<u>69,417</u>	<u>-72,870</u>	142,287	
TOTAL DEP	PREC. TRANSMISSION PLANT	11,848,724		59.5	1.68	199,518			1.93	228,794	3,820,084	4,382,684	3,821,159	561,525	
		1 701 100	5 4 4	05.0	0.00	50.070		4.00		50.070	040.000	040.000	000.040	00.004	
	RES AND IMPROVEMENTS	1,761,490	R 1.0	35.0	2.86	50,379	0	1.00	2.86	50,379	216,622	216,622	309,313	-92,691	
376.00 MAINS		366,964,216	R 3.0	60.0	1.67	6,128,302	-15	1.15	1.92	7,045,713	73,034,778	83,989,995	73,383,746	10,606,249	
	SOR STATION EQUIPMENT	2,246,186	R 1.0	35.0	2.86	64,241	0	1.00	2.86	64,241	256,266	256,266	321,205	-64,939	
	REG. STATION EQUIPMENT-GENERAL	8,592,345	S 2.0	35.0	2.86	245,741	0	1.00	2.86	245,741	3,819,817	3,819,817	4,662,297	-842,480	
	REG. STATION EQUIPMENT-CITY GATE	5,431,082	S 3.0	35.0	2.86	155,329	0	1.00	2.86	155,329	1,490,217	1,490,217	1,612,222	-122,005	
380.00 SERVICES		198,967,012	R 4.0	50.0	2.00	3,979,340	-60	1.60	3.20	6,366,944	54,642,755	87,428,408	94,633,615	-7,205,207	
381.00 METERS		19,992,831	S 3.0	30.0	3.33	665,761	0	1.00	3.33	665,761	6,124,130	6,124,130	4,661,801	1,462,329	
381.10 METERS-IN		254,439	S 3.0	30.0	3.33	8,473	0	1.00	3.33	8,473	111,711	111,711	113,219	-1,508	
381.20 METERS-EF		6,347,958	SQ	15.0	6.67	423,409	0	1.00	6.67	423,409	4,768,023	4,768,023	4,456,153	311,870	
382.00 METER INS		27,070,444	R 3.0	30.0	3.33	901,446	0	1.00	3.33	901,446	6,039,287	6,039,287	5,791,940	247,347	
	L MEASURING & REGULATING EQUIPMENT	53,375	S 6.0	19.0	5.26	2,808	0	1.00	5.26	2,808	15,451	15,451	7,819	7,632	
387.00 OTHER EQU TOTAL DEP	DIPMENT PREC. DISTRIBUTION PLANT	<u>2,487,707</u> 640,169,085	S 6.0	19.0 50.2	5.26 1.99	<u>130,853</u> 12,756,082	0	1.00	5.26 2.51	<u>130,853</u> 16,061,097	<u>1,306,073</u> 151,825,130	<u>1,306,073</u> 195,566,000	<u>1,355,277</u> 191,308,607	<u>-49,204</u> 4,257,393	
GENERAL F	ρι αντ														
	RES AND IMPROVEMENTS	25,864,673	R 3.0	40.0	2.50	646,617	0	1.00	2.50	646,617	5,188,262	5,188,262	6,287,342	-1,099,080	
	RNITURE AND EQUIP.	1,871,855	S 4.0	40.0	6.67	124,853	5	0.95	6.34	118,676	317,133	301,276	225,753	75,523	
	RNITURE AND EQUIPCOMPUTERS	883.183	S 4.0	10.0	10.00	88,318	0	1.00	10.00	88,318	600,581	600,581	66,754	533,827	
	RNITURE AND EQUIPLAPTOP COMP.	878,732	S 4.0	5.0	20.00	175,746	0	1.00	20.00	175,746	777,138	777,138	866,695	-89,557	
393.00 STORES EG		107,831	SQ	30.0	3.33	3,591	0	1.00	3.33	3,591	37,401	37,401	38,003	-602	
	IOP & GARAGE EQUIPMENT	4,359,715	S 6.0	19.0	5.26	229,321	0	1.00	5.26	229,321	1,188,607	1,188,607	1,147,390	41,217	
	CATION EQUIPMENT	941.816	SQ 50.0	19.0	10.00	94.182	0	1.00	10.00	94,182	556,907	556,907	652,209	-95,302	
	NEOUS GENERAL EQUIPMENT	869,377	S 5.0	15.0	6.67	<u>57,987</u>	0	1.00	6.67	<u>57,987</u>	<u>298,865</u>	<u>298,865</u>	<u>322,526</u>	<u>-23,661</u>	
	PREC. GENERAL EQUIPMENT	35,777,182	0 0.0	25.2	3.97	1,420,615	5	1.00	3.95	1,414,438	8,964,894	8,949,037	9,606,672	-657,635	
TOTAL DEP	PREC. GAS PLANT	698,179,397		47.6	2.10	14,688,014			2.58	18,016,128	169,358,534	213,646,147	208,689,508	4,956,639	
		000,0,001			2	,000,014								.,000,000	

4.74% COR ADJ.

FERC ACCOUNT	DESCRIPTION	PLANT	DISP	ASL	ACCRUAL		NET	SALV.	ACCRUAL	ACCRUAL	THEO, RSV.		BOOK RSV.	RESERVE	COR
NUMBER	DESCRIPTION	BALANCE	TYPE	ASL	RATE W/O NET SALV.	ACCRUAL WITHOUT NET SALV.	SALV.	FACTOR	RATE W/	WITH	WITHOUT NET SALV.	THEO. RSV. WITH NET SALV.	@12/31/2021	VARIANCE	RATE
		@12/31/2021			NET SALV.	NET SALV.	%		NET SALV.	NET SALV.	NET SALV.	NET SALV.			%
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
AMORTIZED PLANT															
CAPITALIZED SOFT	WARE														
303.10 CAPITALIZED SOFT\	WARE- 3 YEARS	2,332,280		3.0	33.33	777,349	0	1.00	33.33	777,349			1,019,860		0.00
303.20 CAPITALIZED SOFT\	WARE- 5 YEARS	12,961,962		5.0	20.00	2,592,392	0	1.00	20.00	2,592,392			13,365,176		0.00
303.40 CAPITALIZED SOFT\	WARE- 10 YEARS	3,893,722		10.0	10.00	389,372	0	1.00	10.00	389,372			3,173,692		0.00
303.50 CAPITALIZED SOFT\	WARE- 10 YEARS	779,858		10.0	10.00	77,986	0	1.00	10.00	77,986			537,439		0.00
303.60 CAPITALIZED SOFT\	WARE- 10 YEARS	1,034,809		10.0	10.00	103,481	0	1.00	10.00	103,481			671,164		0.00
TOTAL ACCOUNT 3	03	21,002,631		5.3	18.76	3,940,580			18.76	3,940,580			18,767,331		
392 TRANSPORTATION	EQUIPMENT	11,420,704		5.0	20.00	2,284,141	C	0 1.00	20.00	2,284,141			7,944,855		0.00
396 POWER OPERATED	EQUIPMENT	862,889		5.0	20.00	172,578	C) 1.00	20.00	172,578			691,862		0.00
TOTAL AMORTIZED	PLANT	33,286,224		5.2	19.22	6,397,299			19.22	6,397,299			27,404,048		
TOTAL DEPREC. & A	AMORTIZED GAS PLANT	731,465,621		34.7	2.88	21,085,313			3.34	24,413,427			236,093,556		
1050 PLANT HELD FOR FU	UTURE USE	852,305													
1210 OPI-LAND-RETAINED	D	13,665													
1211 OPI-STRUCTURES-F	RETAINED	133,284											133,284		
3020 FRANCHISES AND C	CONSENTS	250,950													
3040 LAND RIGHTS OWN	ED	97,504													
3641 LNG PROCSS LAND	AND LAND RIGHTS	57,315													
3740 DISTR LAND & LAND	D RIGHTS	376,710													
3890 GNL LAND RIGHTS		121,489													
DIFF. IN BOOK RSV	VS. PUC ANNUAL REPORT												45,029		
TOTAL GAS PLANT	IN SERVICE	733,368,843											236,271,869		