Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Docket No. DG 15-104
Attachment DBS-1
April 15, 2015

# Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Revenue Requirement April 15, 2015

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### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Revenue Requirement

		(a)	<b>(b)</b>	(c)	( <b>d</b> )	(e)	<b>(f)</b>	(g)	(h)
		Actual	July 1, 2009 through March 31, 2010 9 Months	Actual	Actual	Actual	Actual	Actual	Estimate
		FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
	Incremental Investment								
1	CIBS Progam Actual Spend-Mains	1,736,153	4,049,995	3,391,069	1,570,208	2,174,813	2,781,140	3,006,856	-
2	CIBS Progam Actual Spend-Service	729,463	798,555	668,631	352,005	161,352	370,655	776,086	-
3	CIBS Progam Estimated Spend-Mains					-	-	-	6,081,451
4	CIBS Progam Estimated Spend-Service								1,569,656
5	Base Spending Amount	500,000	482,110	500,000	500,000	500,000	500,000	506,240	506,240
6	Incremental Amount	1,965,616	4,366,440	3,559,700	1,422,213	1,836,165	2,651,795	3,276,702	7,144,867
7 8	Cumulative CIBS Program Spend Since July 1, 2009		4,366,440	7,926,140	9,348,353	11,184,518	13,836,312	17,113,015	24,257,882
9	Deferred Tax Calculation								
10	Annual Tax Depreciation	1,031,948	4,366,440	3,559,700	1,422,213	1,836,165	2,651,795	3,276,702	7,144,867
11	Cumulative Tax Depreciation Since July 1, 2009		4,366,440	7,926,140	9,348,353	11,184,518	13,836,312	17,113,015	24,257,882
12									
13	Annual Book Depreciation	49,836	98,794	179,335	212,059	249,951	307,352	384,247	552,063
14	Cumulative Book Depreciation Since July 1, 2009		98,794	278,129	490,188	740,138	1,047,490	1,431,737	1,983,800
15 16	Annual Book/Tax Timer	982,112	4,267,646	3,380,365	1,210,154	1.586.214	2,344,443	2,892,456	6,592,804
17	Cumulative Book/Tax Timer	982,112	4,267,646	7,648,011	8,858,165	10,444,379	12,788,822	15,681,278	22,274,082
18	Statutory Tax Rate	40.53%	40.53%	40.53%	40.53%	40.53%	39.61%	39.61%	39.61%
19	Statutory Tax Plate	10.5570	10.0070	10.0070	10.5570	10.5570	33.0170	33.0170	37.0170
20	Deferred Tax Reserve	398,001	1,729,677	3,099,739	3,590,214	4,233,107	5,161,741	6,211,354	7,773,150
21									
22	Rate Base Calculation								
23	Plant In Service	1,965,616	4,366,440	7,926,140	9,348,353	11,184,518	13,836,312	17,113,015	24,257,882
24	Accumulated Depreciation	(49,836)	(98,794)	(278,129)	(490,188)	(740,138)	(1,047,490)	(1,431,737)	(1,983,800)
25	Net Plant in Service	1,915,780	4,267,646	7,648,011	8,858,166	10,444,379	12,788,822	15,681,278	22,274,081
26	Deferred Tax Reserve	(398,001)	(1,729,677)	(3,099,739)	(3,590,214)	(4,233,107)	(5,161,741)	(6,211,354)	(7,773,150)
27	Year End Rate Base	1,517,779	2,537,969	4,548,272	5,267,951	6,211,273	7,627,082	9,469,924	14,500,931
28	D D 1 (0114								
29	Revenue Requirement Calculation	1 517 770	2 525 060	4.5.40.050	5.067.051	6 211 272	7 (27 002	0.460.024	14 500 021
30	Year End Rate Base Pre-Tax ROR	1,517,779	2,537,969	4,548,272	5,267,951	6,211,273	7,627,082	9,469,924	14,500,931
31 32	Return and Taxes	11.53% 175,003	11.53% 292.628	11.63% 528.964	11.63% 612,663	11.63% 722,371	11.50% 877,114	10.22% 967.826	10.22% 1,481,995
33	Book Depreciation	49,836	292,628 98,794	179,335	212,059	249,951	307,352	384,247	1,481,993
34	Property Taxes 3.21%	37,347	88,340	179,333	231,198	249,931	359,366	503,369	714,998
35	Annual Revenue Requirement	262,185	479,762	902,558	1,055,920	1,213,587	1,543,832	1,855,442	2,749,056
36	Ailiuai Revenue Requirement	202,183	479,762	902,338	1,055,920	1,213,367	1,343,632	1,633,442	2,749,030
37	Prior Year Annual Revenue Requirement	-	-	479,762	902,558	1,055,920	1,213,587	1,543,832	1,855,442
38				ŕ	-	, ,			, , , , , , , , , , , , , , , , , , ,
39	Incremental Annual Rate Adjustment Since July 1, 2009	262,185	479,762	422,796	153,362	157,667	330,245	311,610	893,615
40									

	Actual Capital Struct	ure/ROR			
				(prior federal	(current federal
				tax rate of 35%	tax rate of 34%
			Weighted	and state rate	and state rate
				of 8.5%)	of 8.5%)
	Ratio	Rate	after-tax	Pre Tax	Pre Tax
Long Term Debt	50.00%	4.43%	2.215%	2.215%	2.215%
Short Term Debt	0.00%	0.00%	0.00%	0.00%	0.00%
Common Equity	<u>50.00%</u>	9.67%	4.835%	8.130%	8.006%
	100.00%		7.050%	10.345%	10.221%

### Line / Column Notes:

> Using an efective tax rate of 39.61% starting in FY 2014 and an effective tax rate of 40.53% additions prior to fiscal 2014 Property tax rate reflects actual calendar year 2014 ratio of municipal tax expense to average net plant in service per page 3 of 4.

Col (b) In accordance with Exhibit EN-3 of the National Grid/KeySpan Merger Settlement Agreement (Docket No. DG 06-107),
EnergyNorth is allowed to implement on July 1 of each year, a permanent increase in its base distribution delivery rates to recover
the annual revenue requirement for those investments made in the preceding fiscal year ended March 31st in excess of the CIBS base
amount. As shown on Attachment A of Exhibit EN-3, the revenue requirement in any year reflects deferred income tax reserves based
on the cumulative book/tax timing difference of all prior year CIBS investments. However, on July 1, 2010, EnergyNorth implemented
new temporary base distribution delivery rates as part of its rate case in Docket No. DG 10-017. These new rates were based on the
historic test year ended June 30, 2009 which included the first three months of CIBS investment for the fiscal year ended March 31, 2010.
As a consequence, the revenue requirement for the fiscal year ended March 31, 2010 reflected CIBS investment for only the last nine
months of the fiscal year ended March 31, 2010. In addition, this revenue requirement did not reflect deferred income tax reserves
based on cumulative book/tax timing differences on CIBS spending prior to June 30, 2009.

### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Vintage Year Book Depreciation Schedule

			(a)	(b) July 1, 2009 thru March 31, 2010	(c)	( <b>d</b> )	(e)	(f)	(g)	(h)
	Book Depreciation Schedule-Mains	-	Actual FY09	9 Months FY10	Actual FY11	Actual FY12	Actual FY13	Actual FY14	Actual FY15	Estimate FY16
1	Actual CIBS spending		1,736,153	4,049,995	3,391,069	1,570,208	2,174,813	2,781,140	3,006,856	6,081,451
2	Base spending	_	(352,073)	(402,707)	(417,650)	(408,438)	(465,466)	(441,199)	(402,383)	(397,423)
3	Incremental CIBS spending		1,384,080	3,647,288	2,973,419	1,161,770	1,709,346	2,339,940	2,604,473	5,684,028
4	P. I.D. Col. P.									
5	Book Depreciation Rate:	2.5.40/	25.065	0	0	0	0	0	0	0
6 7	Year 1	2.54% 1.92%	35,065		57,000				50.006	109.133
8	Year 1 beginning in FY10 Year 2	1.92%		70,028	57,090	22,306	32,819	44,927	50,006 44,927	,
9	Year 3	1.92%			70,028	57,090 70,028	22,306 57,090	32,819 22,306	32,819	50,006 44,927
10	Year 4	1.92%				70,028	70,028	57,090	22,306	32,819
11	Year 5	1.92%					70,028	70,028	57,090	22,306
12	Year 6	1.92%						70,020	70,028	57,090
13	Year 7	1.92%							70,028	70,028
14	Book Depreciation Expense-Mains	1.7270	35,065	70,028	127,118	149,424	182,243	227,170	277,176	386,309
15	Book Depreciation Expense Mains		33,003	70,020	127,110	147,424	102,243	227,170	277,170	300,307
16	Accumulated Depreciation Mains-Beginning of Year		_	_	70,028	197,146	346,570	528,813	755,982	755,982
17	Accumulated Depreciation Mains-End of Year	-	35,065	70,028	197,146	346,570	528,813	755,982	1,033,158	1,142,292
18	•	-			,	·		,	, ,	<u> </u>
19 20 21	Book Depreciation Schedule-Services									
22	Actual CIBS spending		729,463	798,555	668,631	352,005	161,352	370,655	776,086	1,569,656
23	Base spending	_	(147,927)	(79,403)	(82,350)	(91,562)	(34,534)	(58,801)	(103,857)	(102,577)
24 25	Incremental CIBS spending		581,536	719,152	586,281	260,443	126,818	311,854	672,229	1,467,079
26	Book Depreciation Rate:									
27	Year 1	2.54%	14,771	0	0	0	0	0	0	0
28	Year 1 beginning in FY10	4.00%		28,766	23,451	10,418	5,073	12,474	26,889	58,683
29	Year 2	4.00%			28,766	23,451	10,418	5,073	12,474	26,889
30	Year 3	4.00%				28,766	23,451	10,418	5,073	12,474
31	Year 4	4.00%					28,766	23,451	10,418	5,073
32	Year 5	4.00%						28,766	23,451	10,418
33	Year 6	4.00%							28,766	23,451
34	Year 7	4.00%	11.551	20.755	52.215	52.525	65.500	00.102	105.051	28,766
35	Book Depreciation Expense-Services		14,771	28,766	52,217	62,635	67,708	80,182	107,071	165,754
36	4 1.1D :: 0 : D :: 6W				20.766	00.002	142 610	211 226	201.500	201.500
37 38	Accumulated Depreciation Services-Beginning of Yea	r <u>-</u>	14,771	28,766	28,766 80,983	80,983 143,618	143,618 211,326	211,326 291,508	291,508 398,579	291,508 457,262
38 39	Accumulated Depreciation Services-End of Year	-	14,771	28,700	80,983	143,018	211,320	291,508	398,379	457,262
39 40										
41								l		
42	Total Mains & Services Depreciation Expense		49,836	98,794	179,335	212,059	249,951	307,352	384,247	552,063
43	Total Manis & Services Depreciation Expense	=	77,050	70,774	117,555	212,037	277,731	301,332	304,247	332,003
44	Total Mains & Services Accumulated Depreciation	=	49,836	98,794	278,129	490,188	740,138	1,047,490	1,431,737	1,599,554

2(g) & 22(g) FY 2016 estimate split 79.5% Mains / 20.5% Services based upon FY 2015 actual spend.

<sup>6(</sup>a) & 26(a) FY 2009 filing used the composite depreciation rate for both mains and services.

col. (b) See footnote regarding column (b) on page 1 of 5.

### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Municipal Taxes as a Percentage of Net Plant

	(a) 12/31/2005	(b) 12/31/2006	(c) 12/31/2007	(d) 12/31/2008	(e) 12/31/2009	(f) 12/31/2010	(g) 12/31/2011	(h) 12/31/2012	(i) 12/31/2013	(j) 12/31/2014
1 Plant in Service	258,573	272,678	289,379	305,221	319,737	332,049	344,966	356,165	381,214	419,215
2 Depreciation and Amortization Reserve	(82,363)	(88,564)	(94,562)	(102,587)	(108,270)	(114,294)	(119,973)	(121,047)	(129,209)	(137,656)
3 Net Plant	176,209	184,114	194,817	202,634	211,467	217,756	224,993	235,118	252,006	281,559
4										
5 Average Net Plant										
6 Plant in Service		265,625	281,028	297,300	312,479	325,893	338,508	350,565	368,690	400,214
7 Depreciation Reserve		(85,463)	(91,563)	(98,575)	(105,429)	(111,282)	(117,133)	(120,510)	(125,128)	(133,432)
8 Net Plant		180,162	189,465	198,726	207,051	214,611	221,375	230,056	243,562	266,782
9										
10 Municipal Taxes		3,534	3,641	3,771	4,294	5,459	5,776	5,321	6,835	8,560
11			. , , .		, ,	, , , , ,		,-	,	
12 % Municipal Taxes to Net Plant		1.96%	1.92%	1.90%	2.07%	2.54%	2.61%	2.31%	2.81%	3.21%

### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Bill Impacts due to Cast Iron and Bare Steel Replacement Program

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	Estimate FY2016
1 Annual Increase due to Cast Iron Bare Steel program	262,185	479,762	521,590	(44,226)	157,667	330,245	311,610	893,615
3 Annual Throughput (see Winter COG filing - schedule 10B)	154,702,063	150,828,182	154,648,622	163,588,592	158,062,349	160,018,819	166,523,068	166,523,068
Increase Factor	\$0.0017	\$0.0032	\$0.0034	(\$0.0003)	\$0.0010	\$0.0021	\$0.0019	\$0.0054
7 Annual Calendar Year Gross Revenues (Annual Report - Page 11)	\$176,520,000	\$151,224,178	\$132,475,941	\$146,365,316	\$119,363,340	\$137,617,008	\$119,363,341	\$119,363,341
9 Annual Percent Increase	0.15%	0.32%	0.39%	-0.03%	0.13%	0.24%	0.26%	0.75%
11 Miles of Main Replaced Annually 12 Cumulative Miles of Main Replaced	2.96 2.96	3.98 6.94	2.79 9.73	1.56 11.29	1.65 12.94	3.51 16.45	5.00 21.45	8.00 29.45
13 Miles of Cast Iron/Bare Steel Main Remaining <sup>1</sup>	149.8	142.0	137.4	132.1	126.30	120.88	113.96	103.96
15 Services Replaced Annually 16 Cumulative Number of Services Replaced	101 101	127 228	282 510	81 591	84 675	174 849	316 1,165	500 1,665
17	101	220	310	37.1	0,3	0.5	1,100	1,005
18 Typical Residential bill	\$1,292	\$1,107	\$1,118	\$1,059	\$1,020	\$1,123	\$1,309	\$1,309
20 Typical Usage 21	800	800	800	800	800	800	800	800
22 Annual Increase for Residential Heating customer	\$1.36	\$2.54	\$2.70	(\$0.22)	\$0.80	\$1.65	\$1.50	\$4.29
24 Percent Bill Increase 25	0.10%	0.23%	0.24%	-0.02%	0.08%	0.15%	0.11%	0.33%
26 27 <b>Typical G-41</b>	\$3,375	\$2,939	\$2,842	\$2,696	\$2,654	\$2,926	\$3,499	\$3,499
28 29 Typical Usage 30	2,167	2,167	2,167	2,167	2,167	2,167	2,167	2,167
30 Annual Increase for G-41 customer 32	\$3.67	\$6.89	\$7.31	(\$0.59)	\$2.16	\$4.47	\$4.06	\$11.63
33 Percent Bill Increase 34	0.11%	0.23%	0.26%	-0.02%	0.08%	0.15%	0.12%	0.33%
35 36 Typical G-42	\$22,595	\$18,926	\$18,432	\$17,516	\$16,884	\$18,853	\$22,486	\$22,486
37 38 Typical Usage	15,567	15,567	15,567	15,567	15,567	15,567	15,567	15,567
39 40 Annual Increase for G-42 customer 41	\$26.38	\$49.52	\$52.50	(\$4.21)	\$15.53	\$32.13	\$29.13	\$83.54
42 Percent Bill Increase 43	0.12%	0.26%	0.28%	-0.02%	0.09%	0.17%	0.13%	0.37%
44 45 Typical G-52	\$21,973	\$16,707	\$16,605	\$16,025	\$14,629	\$16,555	\$18,667	\$18,667
46 47 Typical Usage	15,687	15,687	15,687	15,687	15,687	15,687	15,687	15,687
48 49 Annual Increase for G-52 customer	\$26.59	\$49.90	\$52.91	(\$4.24)	\$15.65	\$32.37	\$29.35	\$84.18
50 51 Percent Bill Increase	0.12%	0.30%	0.32%	-0.03%	0.11%	0.20%	0.16%	0.45%

 $\frac{Line \ / \ Column \ Notes:}{1(b)\text{-}16(b)} \qquad Amounts \ are \ cumulative \ from \ July \ 1,2009$ 

<sup>&</sup>lt;sup>1</sup>These figures are as of the end of the prior calendar year (i.e. FY 2015 data is as of 12/31/2014)

Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Docket No. DG 15-104
Attachment DBS-2
April 15, 2015

# Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Revenue Requirement Since Program Inception - Informational Only April 15, 2015

Computation of Revenue Requirement From Inception	1
Vintage Year Book Depreciation Schedule From Inception	2
Municipal Taxes as a Percentage of Net Plant From Inception	3
Bill Impacts due to Cast Iron and Bare Steel Replacement Program From Incention	4

#### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Revenue Requirement From Inception

### RESTATED AS IF RATE CASE WAS NOT FILED. FOR INFORMATIONAL PURPOSES ONLY.

		(a)	(b)	(c)	(d)	(e)	( <b>f</b> )	(g)	<b>(h)</b>
		Actual	12 Months	Actual	Actual	Actual	Actual	Actual	Estimate
		FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
	Incremental Investment	1.505.150	4 20 5 20 5	2 201 0 50		2.171.012	2 501 110	2006056	
1 2	CIBS Progam Actual Spend-Mains	1,736,153	4,206,295 822,173	3,391,069	1,570,208	2,174,813	2,781,140	3,006,856	-
3	CIBS Progam Actual Spend-Service CIBS Progam Estimated Spend-Mains	729,463	822,173	668,631	352,005	161,352	370,655	776,086	6,081,451
4	CIBS Progam Estimated Spend-Wallis CIBS Progam Estimated Spend-Service					-	-	-	1,569,656
5	Base Spending Amount	500,000	500,000	500,000	500,000	500,000	500,000	506,240	506,240
6	Incremental Amount	1,965,616	4,528,468	3,559,700	1,422,213	1,836,165	2,651,795	3,276,702	7,144,867
7	Cumulative CIBS Program Spend Since July 1, 2009	1,965,616	6,494,084	10,053,784	11,475,997	13,312,162	15,963,956	19,240,659	26,385,526
8	Cumulative CIBS Frogram Spend Since vary 1, 2007	1,,,00,,010	0,1,71,001	10,000,701	11,,,,,,	10,012,102	15,705,750	17,210,007	20,505,520
9	Deferred Tax Calculation								
10	Annual Tax Depreciation	1,031,948	5,462,136	3,559,700	1,422,213	1,836,165	2,651,795	3,276,702	7,144,867
11	Cumulative Tax Depreciation Since July 1, 2009	1,031,948	6,494,084	10,053,784	11,475,997	13,312,162	15,963,956	19,240,659	26,385,526
12	1						, ,	, ,	
13	Annual Book Depreciation	49,836	152,184	232,725	265,448	303,340	360,741	437,636	605,452
14	Cumulative Book Depreciation Since July 1, 2009	49,836	202,019	434,744	700,192	1,003,532	1,364,273	1,801,909	2,407,361
15									
16	Annual Book/Tax Timer	982,112	5,309,953	3,326,975	1,156,765	1,532,825	2,291,054	2,839,067	6,539,415
17	Cumulative Book/Tax Timer	982,112	6,292,065	9,619,040	10,775,805	12,308,630	14,599,684	17,438,751	23,978,166
18	Statutory Tax Rate	40.53%	40.53%	40.53%	40.53%	40.53%	39.61%	39.61%	39.61%
19									
20	Deferred Tax Reserve	398,001	2,550,174	3,898,597	4,367,434	4,988,688	5,896,174	6,907,489	8,486,437
21									
22	Rate Base Calculation								
23	Plant In Service	1,965,616	6,494,084	10,053,784	11,475,997	13,312,162	15,963,956	19,240,659	26,385,526
24	Accumulated Depreciation	(49,836)	(202,019)	(434,744)	(700,192)	(1,003,532)	(1,364,273)	(1,801,909)	(2,407,361)
25	Net Plant in Service	1,915,780	6,292,065	9,619,040	10,775,805	12,308,630	14,599,683	17,438,750	23,978,165
26	Deferred Tax Reserve	(398,001)	(2,550,174)	(3,898,597)	(4,367,434)	(4,988,688)	(5,896,174)	(6,907,489)	(8,486,437)
27	Year End Rate Base	1,517,779	3,741,891	5,720,443	6,408,371	7,319,942	8,703,509	10,531,261	15,491,728
28	D D								
29 30	Revenue Requirement Calculation Year End Rate Base	1,517,779	3,741,891	5 720 442	6,408,371	7,319,942	8,703,509	10,531,261	15,491,728
31	Pre-Tax ROR	1,517,779	11.53%	5,720,443 11.63%	11.63%	11.63%	11.50%	10,331,261	10.22%
32	Return and Taxes	175,003	431,440	665,288	745,294	851,309	1,000,904	1,076,295	1,583,255
33	Book Depreciation	49,836	152,184	232,725	265,448	303,340	360,741	437,636	605,452
34	Property Taxes 3.21%	37,347	130,246	244,324	281,249	284,329	410,251	559,784	769,699
35	Annual Revenue Requirement	262,185	713,870	1,142,337	1,291,991	1,438,978	1,771,896	2,073,715	2,958,406
36	. maan 10 telue requirement	202,103	713,370	1,172,337	1,271,771	1,750,770	1,771,000	2,075,715	2,750,400
37	Prior Year Annual Revenue Requirement	_	262,185	713,870	1,142,337	1,291,991	1,438,978	1,771,896	2,073,715
38			2.2,100	, 0	,,,	,,*	-,, . 70	-,,5,0	-,,0
39	Incremental Annual Rate Adjustment Since July 1, 2009	262,185	451,684	428,467	149,654	146,987	332,918	301,819	884,692
40	•						· <u>L</u>		

-	Actual Capital Structu	ire/ROR			
				(prior federal	(current federal
				tax rate of 35%	tax rate of $34\%$
			Weighted	and state rate	and state rate
				of 8.5%)	of 8.5%)
	Ratio	Rate	after-tax	Pre Tax	Pre Tax
Long Term Debt	50.00%	4.43%	2.215%	2.215%	2.215%
Short Term Debt	0.00%	0.00%	0.00%	0.00%	0.00%
Common Equity	50.00%	9.67%	4.835%	8.130%	8.006%
	100.00%		<u>7.050%</u>	10.345%	10.221%

### Line / Column Notes:

Using an efective tax rate of 39.61% starting in FY 2014 and an effective tax rate of 40.53% additions prior to fiscal 2014

Property tax rate reflects actual calendar year 2014 ratio of municipal tax expense to average net plant in service per page 3 of 4. Col (b) In accordance with Exhibit EN-3 of the National Grid/KeySpan Merger Settlement Agreement (Docket No. DG 06-107),

 $Energy North \ is \ allowed \ to \ implement \ on \ July \ 1 \ of each \ year, \ a \ permanent \ increase \ in \ its \ base \ distribution \ delivery \ rates \ to \ recover$ the annual revenue requirement for those investments made in the preceding fiscal year ended March 31st in excess of the CIBS base amount. As shown on Attachment A of Exhibit EN-3, the revenue requirement in any year reflects deferred income tax reserves based on the cumulative book/tax timing difference of all prior year CIBS investments. However, on July 1, 2010, EnergyNorth implemented new temporary base distribution delivery rates as part of its rate case in Docket No. DG 10-017. These new rates were based on the historic test year ended June 30, 2009 which included the first three months of CIBS investment for the fiscal year ended March 31, 2010. As a consequence, the revenue requirement for the fiscal year ended March 31, 2010 reflected CIBS investment for only the last nine months of the fiscal year ended March 31, 2010. In addition, this revenue requirement did not reflect deferred income tax reserves based on cumulative book/tax timing differences on CIBS spending prior to June 30, 2009.

### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Vintage Year Book Depreciation Schedule From Inception

### RESTATED AS IF RATE CASE WAS NOT FILED. FOR INFORMATIONAL PURPOSES ONLY.

			(a)	<b>(b)</b>	(c)	(d)	(e)	( <b>f</b> )	(g)	(h)
			Actual	12 Months	Actual	Actual	Actual	Actual	Actual	Estimate
	Book Depreciation Schedule-Mains	-	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
1	Actual CIBS spending		1,736,153	4,206,295	3,391,069	1,570,208	2,174,813	2,781,140	3,006,856	6,081,451
2	Base spending		(352,073)	(418,248)	(417,650)	(408,438)	(465,466)	(441,199)	(402,383)	(397,423)
3	Incremental CIBS spending	-	1,384,080	3,788,047	2,973,419	1,161,770	1,709,346	2,339,940	2,604,473	5,684,028
4	meremental CIBS spending		1,504,000	3,700,047	2,773,417	1,101,770	1,707,540	2,337,740	2,004,473	3,004,020
5	Book Depreciation Rate:									
6	Year 1	2.54%	35,065	35,065	35,065	35,065	35,065	35,065	35,065	35,065
7	Year 1 beginning in FY10	1.92%		72,731	57,090	22,306	32,819	44,927	50,006	109,133
8	Year 2	1.92%		,,,,	72,731	57,090	22,306	32,819	44,927	50,006
9	Year 3	1.92%				72,731	57,090	22,306	32,819	44,927
10	Year 4	1.92%					72,731	57,090	22,306	32,819
11	Year 5	1.92%						72,731	57,090	22,306
12	Year 6	1.92%						·	72,731	57,090
13	Year 7	1.92%								72,731
14	Book Depreciation Expense-Mains	_	35,065	107,796	164,886	187,191	220,010	264,937	314,943	424,076
15										
16	Accumulated Depreciation Mains-Beginning of Year	_	-	35,065	142,860	307,746	494,937	714,947	979,884	979,884
17	Accumulated Depreciation Mains-End of Year		35,065	142,860	307,746	494,937	714,947	979,884	1,294,827	1,403,960
18		_								<u> </u>
19										
20	Book Depreciation Schedule-Services									
21										
22	Actual CIBS spending		729,463	822,173	668,631	352,005	161,352	370,655	776,086	1,569,656
23	Base spending	_	(147,927)	(81,752)	(82,350)	(91,562)	(34,534)	(58,801)	(103,857)	(102,577)
24	Incremental CIBS spending		581,536	740,421	586,281	260,443	126,818	311,854	672,229	1,467,079
25										
26	Book Depreciation Rate:									
27	Year 1	2.54%	14,771	14,771	14,771	14,771	14,771	14,771	14,771	14,771
28	Year 1 beginning in FY10	4.00%		29,617	23,451	10,418	5,073	12,474	26,889	58,683
29	Year 2	4.00%			29,617	23,451	10,418	5,073	12,474	26,889
30	Year 3	4.00%				29,617	23,451	10,418	5,073	12,474
31	Year 4	4.00%					29,617	23,451	10,418	5,073
32	Year 5	4.00%						29,617	23,451	10,418
33	Year 6	4.00%							29,617	23,451
34	Year 7	4.00%			-=					29,617
35	Book Depreciation Expense-Services		14,771	44,388	67,839	78,257	83,330	95,804	122,693	181,376
36								****		****
37	Accumulated Depreciation Services-Beginning of Year	-	-	14,771	59,159	126,998	205,255	288,584	384,388	384,388
38	Accumulated Depreciation Services-End of Year	-	14,771	59,159	126,998	205,255	288,584	384,388	507,081	565,764
39										
40										
41							***			-0-4-0-
42	Total Mains & Services Depreciation Expense	=	49,836	152,184	232,725	265,448	303,340	360,741	437,636	605,452
43	m. 134 : 0.0 : 1 : 15 : 15		40.00	202.01*	101.71:	500.100	1 000 501	1 251 272	1 001 000	1.050.75
44	Total Mains & Services Accumulated Depreciation	-	49,836	202,019	434,744	700,192	1,003,531	1,364,272	1,801,908	1,969,724

<sup>2(</sup>g) & 22(g) FY 2016 estimate split 79.5% Mains / 20.5% Services based upon FY 2015 actual spend.

<sup>6(</sup>a) & 26(a) FY 2009 filing used the composite depreciation rate for both mains and services.

col. (b) See footnote regarding column (b) on page 1 of 5.

### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Municipal Taxes as a Percentage of Net Plant From Inception

	(a) 12/31/2005	(b) 12/31/2006	(c) 12/31/2007	(d) 12/31/2008	(e) 12/31/2009	(f) 12/31/2010	(g) 12/31/2011	(h) 12/31/2012	(i) 12/31/2013	(j) 12/31/2014
1 Plant in Service	258,573	272,678	289,379	305,221	319,737	332,049	344,966	356,165	381,214	419,215
2 Depreciation and Amortization Reserve	(82,363)	(88,564)	(94,562)	(102,587)	(108,270)	(114,294)	(119,973)	(121,047)	(129,209)	(137,656)
3 Net Plant	176,209	184,114	194,817	202,634	211,467	217,756	224,993	235,118	252,006	281,559
4										
5 Average Net Plant										
6 Plant in Service		265,625	281,028	297,300	312,479	325,893	338,508	350,565	368,690	400,214
7 Depreciation Reserve		(85,463)	(91,563)	(98,575)	(105,429)	(111,282)	(117,133)	(120,510)	(125, 128)	(133,432)
8 Net Plant		180,162	189,465	198,726	207,051	214,611	221,375	230,056	243,562	266,782
9										,
10 Municipal Taxes		3,534	3,641	3,771	4,294	5,459	5,776	5,321	6,835	8,560
11										
12 % Municipal Taxes to Net Plant		1.96%	1.92%	1.90%	2.07%	2.54%	2.61%	2.31%	2.81%	3.21%

### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Bill Impacts due to Cast Iron and Bare Steel Replacement Program From Inception

### RESTATED AS IF RATE CASE WAS NOT FILED. FOR INFORMATIONAL PURPOSES ONLY.

1	(a) FY2009	(b) FY2010	(c) FY2011	(d) FY2012	(e) FY2013	(f) FY2014	(g) FY2015	(h) Estimate FY2016
1 Annual Increase due to Cast Iron Bare Steel program	262,185	713,870	527,261	(92,035)	146,987	332,918	301,819	884,692
2 3 Annual Throughput (see Winter COG filing - schedule 10B)	154,702,063	150,828,182	154,648,622	163,588,592	158,062,349	160,018,819	166,523,068	166,523,068
Increase Factor	\$0.0017	\$0.0047	\$0.0034	(\$0.0006)	\$0.0009	\$0.0021	\$0.0018	\$0.0053
Annual Calendar Year Gross Revenues (Annual Report - Page 11)	\$176,520,000	\$151,224,178	\$132,475,941	\$146,365,316	\$119,363,340	\$137,617,008	\$119,363,341	\$119,363,341
9 Annual Percent Increase	0.15%	0.47%	0.40%	-0.06%	0.12%	0.24%	0.25%	0.74%
1 Miles of Main Replaced Annually 2 Cumulative Miles of Main Replaced	2.96 2.96	3.98 6.94	2.79 9.73	1.56 11.29	1.65 12.94	3.51 16.45	5.00 21.45	8.00 29.45
3 Miles of Cast Iron/Bare Steel Main Remaining <sup>1</sup>	149.8	142.0	137.4	132.1	126.30	120.88	113.96	103.96
5 Services Replaced Annually 6 Cumulative Number of Services Replaced	101 101	127 228	282 510	81 591	84 675	174 849	316 1,165	500 1,665
7 8 Typical Residential bill	\$1,292	\$1,107	\$1,118	\$1,059	\$1,020	\$1,123	\$1,309	\$1,309
9 0 Typical Usage	800	800	800	800	800	800	800	800
1 2 Annual Increase for Residential Heating customer	\$1.36	\$3.79	\$2.73	(\$0.45)	\$0.74	\$1.66	\$1.45	\$4.25
3 4 Percent Bill Increase 5	0.10%	0.34%	0.24%	-0.04%	0.07%	0.15%	0.11%	0.32%
6 7 Typical G-41	\$3,375	\$2,939	\$2,842	\$2,696	\$2,654	\$2,926	\$3,499	\$3,499
8 9 Typical Usage	2,167	2,167	2,167	2,167	2,167	2,167	2,167	2,167
0 1 Annual Increase for G-41 customer 2	\$3.67	\$10.26	\$7.39	(\$1.22)	\$2.02	\$4.51	\$3.93	\$11.51
2 Percent Bill Increase 4	0.11%	0.35%	0.26%	-0.05%	0.08%	0.15%	0.11%	0.33%
5 6 Typical G-42	\$22,595	\$18,926	\$18,432	\$17,516	\$16,884	\$18,853	\$22,486	\$22,486
7 8 Typical Usage	15,567	15,567	15,567	15,567	15,567	15,567	15,567	15,567
9 Annual Increase for G-42 customer	\$26.38	\$73.68	\$53.07	(\$8.76)	\$14.48	\$32.39	\$28.21	\$82.70
2 Percent Bill Increase 3	0.12%	0.39%	0.29%	-0.05%	0.09%	0.17%	0.13%	0.37%
4 5 Typical G-52	\$21,973	\$16,707	\$16,605	\$16,025	\$14,629	\$16,555	\$18,667	\$18,667
6 7 Typical Usage 8	15,687	15,687	15,687	15,687	15,687	15,687	15,687	15,687
9 Annual Increase for G-52 customer 0	\$26.59	\$74.25	\$53.48	(\$8.83)	\$14.59	\$32.64	\$28.43	\$83.34
1 Percent Bill Increase	0.12%	0.44%	0.32%	-0.06%	0.10%	0.20%	0.15%	0.45%

 $\frac{Line \, / \, Column \, \, Notes:}{1 (b) - 16 (b) \qquad Amounts \, are \, cumulative \, from \, July \, 1, \, 2009}$ 

 $<sup>^{1}\</sup>text{These}$  figures are as of the end of the prior calendar year (i.e. FY 2015 data is as of 12/31/2014)

Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Docket No. DG 15-104
Attachment DBS-3
April 15, 2015

# Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Impact of Refund of Degradation Fees - Informational Only April 15, 2015

Computation of Estimated Revenue Requirement Refund on Degradation Fees - Informational Only	1
Vintage Year Book Depreciation Schedule	2
Municipal Taxes as a Percentage of Net Plant	3
Bill Impacts due to Cast Iron and Bare Steel Replacement Program	4

## Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Refund on Degradation Fees - Informational Only

**(b)** 

(a)

45

	V-7		Refund Year				
	<b>Incremental Investment</b>	_					
1	CIBS Progam Actual - Refund of Degradation Fees		(888,709)				
2	Base Spending Amount	_					
3	Incremental Amount		(888,709)				
4	Cumulative CIBS Program - Refund of Degradation Fees		(888,709)				
5							
6	<u>Deferred Tax Calculation</u>						
7	Annual Tax Depreciation		(888,709)				
8	Cumulative Tax Depreciation on Degradation Fees		(888,709)				
9			4=0.40				
10	Annual Book Depreciation		(17,063)				
11	Cumulative Book Depreciation on Degradation Fees		(17,063)				
12	A 1D 1/ID II'		(071 (45)				
13 14	Annual Book/Tax Timer		(871,645)				
	Cummualative Book/Tax Timer	_	(871,645)				
15 16	Effective Tax Rate		39.61%				
17	Estimated Deferred Tax Reserve		(345,259)				
18	Estillated Deferred Tax Reserve	_	(343,239)				
19	Rate Base Calculation						
20	Plant In Service		(888,709)				
21	Accumulated Depreciation		17,063				
22	Net Plant in Service	-	(871,645)				
23	Deferred Tax Reserve		345,259				
24	Year End Rate Base	_	(526,387)				
25		=					
26	Revenue Requirement Calculation						
27	Year End Rate Base		(526,387)				
28	Pre-Tax ROR		10.22%				
29	Return and Taxes	_	(53,797)				
30	Book Depreciation		(17,063)				
31	Property Taxes	3.21%	(20,135)				
32	Revenue Requirement Reduction	_	(90,995)				
33	-						
34							
35		(	Capital Structure/ROR				
36						(prior federal	(current federal
37						tax rate of 35%	tax rate of 34%
38					Weighted		and state rate
39						of 8.5%)	of 8.5%)
40			Ratio	Rate	after-tax	Pre Tax	Pre Tax
41	Long Term Debt		50.00%	4.43%	2.215%	2.215%	2.215%
42	Short Term Debt		0.00%	0.00%	0.00%	0.00%	0.00%
43	Common Equity		<u>50.00%</u>	9.67%	4.835%	<u>8.130%</u>	8.006%
44			100.000/		7.050°	10.2450/	10.2210/

100.00%

10.221%

7.050%

10.345%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
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## Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Impact of Refund of Degradation Fees - Informational Only

### Vintage Year Book Depreciation Schedule

	<b>Book Depreciation Schedule-Mains</b>		Refund
		<del>-</del>	Year
1	Actual CIBS spending		(888,709)
2		_	
3	Incremental CIBS spending		(888,709)
4			
5	Book Depreciation Rate:		
6	Year 1	1.92%	(17,063)
7	Year 2	1.92%	
8	Year 3	1.92%	
9	Year 4	1.92%	
10			
11	Book Depreciation Expense-Mains	_	(17,063)
12			
13	Accumulated Depreciation-Beginning of Year		-
14	Accumulated Depreciation-End of Year	_	(17,063)

Degradation Fees by Year by City:										
<u>F/Y 2011</u> <u>F/Y 2012</u> <u>F/Y 2013</u> <u>F/Y 2014</u> <u>F/Y 2015</u> <u>Totals</u>										
Concord	19,856	37,960	9,747	48,350	75,541	191,454				
Manchester	275,035	39,885	382,335	-	-	697,255				
Totals	294,891	77,845	392,082	48,350	75,541	888,709				

Liberty Utilities (EnergyNorth Natural Gas) Corp.
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## Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Impact of Refund of Degradation Fees - Informational Only

### Municipal Taxes as a Percentage of Net Plant

	(a)	(b)	(c) 12/31/2007	(d)	(e)	(f) 12/31/2010	(g) 12/31/2011	(h) 12/31/2012	(i) 12/31/2013	(j) 12/31/2014
	12/31/2003	12/31/2000	12/31/2007	12/31/2008	12/31/2009	12/31/2010	12/31/2011	12/31/2012	12/31/2013	12/31/2014
1 Plant in Service	258,573	272,678	289,379	305,221	319,737	332,049	344,966	356,165	381,214	419,215
2 Depreciation and Amortization Reserve	(82,363)	(88,564)	(94,562)	(102,587)	(108,270)	(114,294)	(119,973)	(121,047)	(129,209)	(137,656)
3 Net Plant	176,209	184,114	194,817	202,634	211,467	217,756	224,993	235,118	252,006	281,559
4										
5 Average Net Plant										
6 Plant in Service		265,625	281,028	297,300	312,479	325,893	338,508	350,565	368,690	400,214
7 Depreciation Reserve		(85,463)	(91,563)	(98,575)	(105,429)	(111,282)	(117,133)	(120,510)	(125,128)	(133,432)
8 Net Plant		180,162	189,465	198,726	207,051	214,611	221,375	230,056	243,562	266,782
9	•									
10 Municipal Taxes		3,534	3,641	3,771	4,294	5,459	5,776	5,321	6,835	8,560
11	'-		•			•	•	•		
12 % Municipal Taxes to Net Plant		1.96%	1.92%	1.90%	2.07%	2.54%	2.61%	2.31%	2.81%	3.21%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
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## Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Impact of Refund of Degradation Fees - Informational Only

### Bill Impacts due to Cast Iron and Bare Steel Replacement Program

	(a)	(b) Refund Year
1	Decrease Related to Refund of Degradation Fees	(90,995)
2 3 4	Annual Throughput (see Winter COG filing - schedule 10B)	166,523,068
5	Decrease Factor	(\$0.0005)
7	Annual Calendar Year Gross Revenues (Annual Report - Page 11, line 2)	\$119,363,341
8 9 10	Annual Percent Decrease	-0.08%
11		
12 13 14	Typical Residential bill	\$1,309
15	Typical Usage	800
16 17 18	Annual Decrease for Residential Heating customer	(\$0.44)
19 20	Percent Bill Decrease	-0.03%
21 22 23	Typical G-41	\$3,499
24	Typical Usage	2,167
<ul><li>25</li><li>26</li><li>27</li></ul>	Annual Decrease for G-41 customer	(\$1.18)
28 29	Percent Bill Decrease	-0.03%
30 31	Typical G-42	\$22,486
32 33 34	Typical Usage	15,567
35	Annual Decrease for G-42 customer	(\$8.51)
36 37 38	Percent Bill Decrease	-0.04%
39 40	Typical G-52	\$18,667
41 42 43	Typical Usage	15,687
44	Annual Decrease for G-52 customer	(\$8.57)
45 46	Percent Bill Decrease	-0.05%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
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Docket No. DG 15-104
Attachment DBS-4
April 15, 2015

## Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Impact if the Company Does Not Prevail in the Degradation Fee Litigation - Informational Only April 15, 2015

Computation of Estimated Revenue Requirement Refund on Degradation Fees - Informational Only	1
Vintage Year Book Depreciation Schedule	2
Municipal Taxes as a Percentage of Net Plant	3
Bill Impacts due to Cast Iron and Bare Steel Replacement Program	4

## Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Refund on Degradation Fees - Informational Only

(b) Refund

(a)

43

44 45 Common Equity

		_	Year				
	<b>Incremental Investment</b>	_					
1	CIBS Progam Actual - Charge of Degradation Fees		483,159				
2	Base Spending Amount	_					
3	Incremental Amount	_	483,159				
4	Cumulative CIBS Program - Charge of Degradation Fees		483,159				
5							
6	Deferred Tax Calculation						
7	Annual Tax Depreciation		483,159				
8	Cumulative Tax Depreciation on Degradation Fees		483,159				
9							
10	Annual Book Depreciation		9,277				
11	Cumulative Book Depreciation on Degradation Fees		9,277				
12							
13	Annual Book/Tax Timer		473,882				
14	Cummualative Book/Tax Timer	_	473,882				
15	Effective Tax Rate	_	39.61%				
16							
17	Estimated Deferred Tax Reserve		187,705				
18		_					
19	Rate Base Calculation						
20	Plant In Service		483,159				
21	Accumulated Depreciation	_	(9,277)				
22	Net Plant in Service	_	473,882				
23	Deferred Tax Reserve	_	(187,705)				
24	Year End Rate Base	_	286,178				
25		=					
26	Revenue Requirement Calculation						
27	Year End Rate Base		286,178				
28	Pre-Tax ROR		10.22%				
29	Return and Taxes	_	29,247				
30	Book Depreciation		9,277				
31	Property Taxes	3.21%	10,947				
32	Revenue Requirement Increase	_	49,471				
33	*						
34							
35			Capital Structure/ROR				
36			_			(prior federal	(current federal
37							tax rate of 34%
38					Weighted		and state rate
39						of 8.5%)	of 8.5%)
40			Ratio	Rate	after-tax	Pre Tax	Pre Tax
41	Long Term Debt		50.00%	4.43%	2.215%	2.215%	2.215%
42	Short Term Debt		0.00%	0.00%	0.00%	0.00%	0.00%
12	Short Term Debt		50.00%	0.0070	4.0250/	0.0070	0.0070

50.00%

100.00%

9.67%

4.835%

7.050%

8.130%

10.345%

8.006%

10.221%

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### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program

Computation of Estimated Revenue Requirement Impact if the Company Does Not Prevail in the Degradation Fee Litigation - Informational Only

### Vintage Year Book Depreciation Schedule

	<b>Book Depreciation Schedule-Mains</b>		Refund
		_	Year
1	Actual CIBS spending		483,159
2		_	
3	Incremental CIBS spending		483,159
4			
5	Book Depreciation Rate:		
6	Year 1	1.92%	9,277
7	Year 2	1.92%	
8	Year 3	1.92%	
9	Year 4	1.92%	
10			
11	Book Depreciation Expense-Mains	_	9,277
12			
13	Accumulated Depreciation-Beginning of Year		-
14	Accumulated Depreciation-End of Year		9,277

Uncharged Degradation Fees by Year by City:									
<u>F/Y 2011</u> <u>F/Y 2012</u> <u>F/Y 2013</u> <u>F/Y 2014</u> <u>F/Y 2015</u> <u>T</u>									
Concord		-	-	-	-	-	-		
Manchester	<u></u>	-	-	-	246,449	236,710	483,159		
Totals		-	-	-	246,449	236,710	483,159		

## Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program Computation of Estimated Revenue Requirement Impact if the Company Does Not Prevail in the Degradation Fee Litigation - Informational Only

### Municipal Taxes as a Percentage of Net Plant

	(a) 12/31/2005	(b) 12/31/2006	(c) 12/31/2007	(d) 12/31/2008	(e) 12/31/2009	(f) 12/31/2010	(g) 12/31/2011	(h) 12/31/2012	(i) 12/31/2013	(j) 12/31/2014
Plant in Service     Depreciation and Amortization Reserve	258,573 (82,363)	272,678 (88,564)	289,379 (94,562)	305,221 (102,587)	319,737 (108,270)	332,049 (114,294)	344,966 (119,973)	356,165 (121,047)	381,214 (129,209)	419,215 (137,656)
3 Net Plant	176,209	184,114	194,817	202,634	211,467	217,756	224,993	235,118	252,006	281,559
4 5 Average Net Plant 6 Plant in Service 7 Depreciation Reserve 8 Net Plant		265,625 (85,463) 180,162	281,028 (91,563) 189,465	297,300 (98,575) 198,726	312,479 (105,429) 207,051	325,893 (111,282) 214,611	338,508 (117,133) 221,375	350,565 (120,510) 230,056	368,690 (125,128) 243,562	400,214 (133,432) 266,782
9 10 Municipal Taxes 11 12 % Municipal Taxes to Net Plant		3,534 1.96%	3,641 1.92%	3,771 1.90%	4,294 2.07%	5,459 2.54%	5,776	5,321	6,835 2.81%	8,560 3.21%

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**(b)** 

### Liberty Utilities (EnergyNorth Natural Gas) Corp. Fiscal Year 2015 Cast Iron/Bare Steel Replacement Program

Computation of Estimated Revenue Requirement Impact if the Company Does Not Prevail in the Degradation Fee Litigation - Informational Only

### Bill Impacts due to Cast Iron and Bare Steel Replacement Program

	, wy	Charge Year
1 2	Increase Related to Unpaid Degradation Fees	49,471
3	Annual Throughput (see Winter COG filing - schedule 10B)	166,523,068
5	Increase Factor	\$0.0003
7	Annual Calendar Year Gross Revenues (Annual Report - Page 11, line 2)	\$119,363,341
10	Annual Percent Increase	0.04%
11		
12 13	Typical Residential bill	\$1,309
15	Typical Usage	800
16 17 18	Annual Increase for Residential Heating customer	\$0.24
19	Percent Bill Increase	0.02%
21		\$3,499
23		2,167
25 26		\$0.64
27 28 29	Percent Bill Increase	0.02%
30		\$22,486
32 33		15,567
34 35	Annual Increase for G-42 customer	\$4.62
36 37 38	Percent Bill Increase	0.02%
39 40		\$18,667
41		15,687
43		\$4.66
45		0.02%
		313_/3