

BEFORE THE STATE OF NEW HAMPSHIRE

PUBLIC UTILITIES COMMISSION

In the matter of

DG 17-048

Liberty Utilities – EnergyNorth Gas Distribution Rates

Direct Prefiled Testimony

Of

James J Brennan

Finance Director

On behalf of

The New Hampshire Office of the Consumer Advocate

Dated: November 30, 2017

1 **TABLE OF CONTENTS**

2 I. INTRODUCTION AND OVERVIEW..... 3

3 II. SUMMARY AND RECOMMENDATIONS..... 6

4 a. Consolidation of Revenue Requirements – Keene..... 7

5 b. Concord Training Center..... 8

6 c. Life Time Cost Variance on Capital Projects..... 9

7 III. BACKGROUND..... 10

8 IV. CONCORD TRAINING CENTER..... 11

9 a. Context- 2016 Management Audit..... 11

10 b. Evidence of Imprudence..... 13

11 V. REVENUE REQUIREMENT..... 17

12 a. Overall Revenue Requirement..... 18

13 b. Revenue Requirement Tables and Schedules..... 21

14 c. Keene Adjustments..... 21

15 d. Concord Training Center Adjustments..... 23

16 **ATTACHMENTS**

- 17 JJB-1 Liberty 1/24/2014 and 5/1/2014 updated Training Center Business Case
- 18 JJB-2 OCA 4-20
- 19 JJB-3 OCA 4-26
- 20 JJB-4 OCA 4-23
- 21 JJB-5 Staff Tech 3-2

22 **OCA REVENUE REQUIREMENT TABLES**

23 Table 1: Summary of Operating Income and Revenue Deficiency- Consolidated vs

24 EnergyNorth Only..... 7

25 Table 2: Summary of Impact of OCA’s Recommendations to EnergyNorth

26 Operating Income and Revenue Deficiency..... 18

27 Table 3: Consolidating Revenue Requirements of EnergyNorth and Keene -

28 Including Rate Base Balances..... 19

29 Table 4: Summary of NOI and Revenue Deficiency With and Without Keene..... 21

30 Table 5: Adjustment to Remove Keene Revenue Requirement - Rate Base..... 22

31 Table 6: Adjustments to Rate Base Balances - Removing Keene..... 22

32 Table 7: Adjustments to Remove Keene Revenue Requirement – Operations..... 23

33 Table 8: Adjustment to EnergyNorth - Rate Base..... 24

34 Table 9: Adjustments to EnergyNorth – Operations..... 24

35 Table 10: Capital Structure and Costs..... 25

36 Table 11: Adjustments to Rate Base Balances – Consolidated..... 26

1 **I: INTRODUCTION AND OVERVIEW**

2 **Q. Please state your name, business address and current position.**

3 A. My name is Jim Brennan. I am the Finance Director at the New Hampshire
4 Office of the Consumer Advocate (OCA). My business address is 21 South
5 Fruit Street, Suite 18, Concord, New Hampshire.

6 **Q. Please describe your education and professional experience.**

7 A. I earned a Bachelor degree from Saint Bonaventure University and an MBA in
8 Finance at Syracuse University in 1980. I completed a nine month JP Morgan
9 Chase (formerly Chemical Bank) MBA Management Training Program. I have
10 completed additional courses in business, finance, software development,
11 electric utility regulation, regulatory finance and accounting, and Smart Grid.
12 In my present position at the OCA I perform economic and financial analysis
13 of utility filings across all industries, draft discovery and testimony, and
14 provide guidance on financial policy and regulatory issues.

15 My business career began in banking as First Vice President at Chemical
16 Bank, 1980-1989, with responsibilities as analyst, credit department manager,
17 account relationships, and course designer and instructor of Risk Assessment
18 training. I have experience managing business and technology operations. At
19 TD Waterhouse Securities, 1995-2001, I ran the third largest brokerage
20 statement operation on Wall Street during a period of 400 percent growth with
21 responsibilities for budget, operations, Information Technology data

1 processing and New York Stock Exchange Compliance. Waterhouse's
2 statement was awarded #1 ranking by Smart Money during my assignment. I
3 have experience in IT project management and software design. Experience
4 includes: implementation of paperless technology in Waterhouse Security
5 National Investor Clearing Corporation stock clearing operation (2000);
6 managing launch of an eServices web site providing on-line secure access of
7 brokerage statements to 2.5 million Waterhouse clients (2001); designing
8 Microsoft.NET and SQL Server based software systems for Mathematica
9 Policy Research 2003-2006; and directing design, testing and launch of cloud
10 based Microsoft Customer Relationship Management (CRM) applications for
11 Southern New Hampshire University (2012-2013). I have designed and taught
12 courses in Corporate Finance, Microsoft applications and Microsoft C#
13 programming language.

14 **Q. Have you previously provided testimony before the New Hampshire Public**
15 **Utility Commission?**

16 A. Yes.

17 **Q. In which dockets did you testify?**

18 A. I provided testimony before the Commission in the following dockets:

- 19 • DE 10-055 Unitil, Inc., rate case testimony assessing the company's smart grid
20 investments ;
- 21 • DE 13-177 Public Service Company of New Hampshire (PSNH), testimony regarding
22 Least Cost Integrated Resource Planning;
- 23 • DE 14-120 Public Service Company of New Hampshire (PSNH), testimony on
24 reconciliation of the company's energy service costs;
- 25 • DW 13-130 Pennichuck Water Works, Inc., this case dealt with the company's revenue
26 deficiency;

- 1 • DG 15-090 Northern Utilities, Inc., testimony on design of interstate pipeline refund in
2 cost of gas rates;
- 3 • DE 11-250 Public Service Company of New Hampshire (PSNH), testimony (adopted)
4 on investigation of Merrimack Station scrubber project cost recovery;
- 5 • DE 14-238 Public Service Company of New Hampshire (PSNH), testimony on
6 divestiture of PSNH generation assets;
- 7 • DE 15-137 Energy Efficiency Resource Standard, testimony on utilities empowering
8 residential customer through modern electronic data platforms;
- 9 • DE 16-384 Unitil Energy Systems Inc., testimony on company pilot to design a utility
10 energy data sharing platform;
- 11 • DE 16-383 Liberty Utilities Granite State Electric, testimony regarding long term trend
12 and benchmark analysis using FERC data.
- 13 • DE 15-464 PSNH Lease to Northern Pass LLC, testimony valuing right-of-way assets
14 for high voltage electric transmission use.

15 **Q. Have you provided public comments to the Commission?**

16 A. Yes, I provided public comments in the following docket:

- 17 • IR 15-296 Grid Modernization, comment on definition and elements of grid
18 modernization.

19 **Q. Have you prepared any tables to support for your direct testimony?**

20 A. Yes, tables 1 through 11 are included in-line within my testimony.

21 **Q. What is the purpose of your testimony?**

22 A. The primary purpose of my testimony is to address the revenue requirement
23 and revenue deficiency proposed by EnergyNorth d/b/a Liberty Utilities
24 (Liberty or Company) and present the impact of two OCA recommendations
25 regarding Keene division (Keene) and Concord Training Center. I also make a
26 recommendation that Liberty modify its existing method used to track actual
27 vs budgeted cost of approved capital projects. Liberty's current project
28 management process for multi-year projects does not enable comparison of
29 actual project costs against budgeted costs on a lifetime basis.

30 **Q. How is your testimony organized?**

1 A. My testimony has five sections. The first section, Introduction and Overview,
2 summarizes the purpose of my testimony and the organization of my
3 testimony. The second section, Summary of Recommendations, briefly
4 summarizes the OCA's three recommendations made in my testimony relative
5 to revenue requirements and capital budget cost tracking. The third section,
6 Background, discusses the background of EnergyNorth Gas (ENG) and Granite
7 State Electric Corp (GSEC) dockets relevant to issues raised in my testimony
8 relative to the Keene consolidation, OCA's Training Center disallowance, and
9 the recommendation for tracking life time budget variances on capital projects.
10 The fourth section of my testimony discusses the Concord Training Center
11 capital project and lack of evidence of prudence regarding Liberty's decisions
12 and management of the Company's training needs. The fifth section, Revenue
13 Requirement, discusses the Company's revenue request, methodology and
14 OCA's adjustments and recommendation.

15

16 **II: SUMMARY OF RECOMMENDATIONS**

17 **Q. Before summarizing your individual recommendations, please summarize**
18 **and compare OCA's revenue requirements and revenue deficiency**
19 **recommendation with the Company's proposal.**

20 A. Table 1 summarizes OCA's recommendation in column 3 compared to the
21 Company's consolidated proposal in column 1 and the Company's ENG
22 proposal in column 2.

Table 1: Summary of Operating Income and Revenue Deficiency- Consolidated vs EnergyNorth Only

		1604: v11-23-17 Staff TS 1-1 Supplemental 17-048		
		Test Year		2016
		Tax factor		1.65
		OCA ROE		0.0840
		OCA WACC		0.0641
		col 1	col 2	col 3
Line		Consolidated 1604 ENG +Keene	Company Request ENG	OCA Recommendation (ENG division)
1	NOI Requirement	\$ 18,565,401	\$ 18,398,298	\$ 15,792,558
2	NOI Present Rates	\$ 9,592,661	\$ 9,961,580	\$ 10,190,780
3	NOI Deficiency	\$ 8,972,740	\$ 8,436,718	\$ 5,601,778
4	Revenue Deficiency	\$ 14,808,946	\$ 13,924,275	\$ 9,245,383

1

2 **Q. What is OCA’s revenue requirement recommendation?**

3 A. The OCA recommends a revenue deficiency no greater than \$9,245,383 for
4 EnergyNorth. The recommendation is based on adjustments summarized
5 below, which are further analyzed in Section IV. It also includes the impact of
6 OCA’s proposed return discussed in Section IV and presented in Table 10.
7 My recommendations are presented in the order discussed in my testimony as
8 follows:

9 **II.A Keene Division**

10 **Q. Please summarize your recommendation relative to Keene.**

11 A. The OCA recommends Keene's \$884,671 revenue requirement (see table 3) not
12 be included in docket DG 17-048. OCA’s recommendation is based on issues
13 raised in the Keene acquisition docket DG 14-155 summarized in Section III of
14 my testimony. The Commission’s approval of EnergyNorth’s Keene
15 acquisition was premised upon the “no net harm” standard outlined in RSA

1 369:8, requiring that the transaction not “adversely affect rates...of a public
2 utility in the state.” *Liberty Utilities Co.*, Order No. 25,736 (Nov. 21, 2014).
3 Keene has a negative operating income in test year 2016. The OCA is not
4 against consolidation in principle as administrative efficiencies would likely
5 occur. However, the Company has not addressed financial concerns of cost
6 shifting and net harm raised in DG 14-155. The Company has not developed a
7 business case or a financial analysis of Keene's future operations that would
8 indicate a reversal in operating losses. Section IV of my testimony, Revenue
9 Requirement, shows the removal of Keene's revenue requirement in Tables 4
10 through 7.

11 **II.B Concord Training Center**

12 **Q. Please summarize your recommendation relative to the Concord Training**
13 **Center**

14 A. The OCA recommends removal of the Concord Training Center from
15 EnergyNorth's proposed revenue requirement based it's on imprudent planning
16 and management of the project. The Company acted imprudently by failing to
17 conduct a meaningful business case analysis, perform a financial benefit-cost
18 analysis, or evaluate alternatives to owning a training center during its
19 planning and capital budget approval process. Additionally, following the
20 decision to build the facility, the Company's failure to exercise fundamental
21 project plan monitoring and tracking resulted in cost overruns. The original
22 cost estimate approved in early 2014 was \$1.1 million while the final cost as
23 of test year 2016 was \$3.8 million. Therefore, the OCA's revenue deficiency

1 of \$9,254,383, shown in table 1 column 3, includes a disallowance of the
2 Concord Training Center's revenue requirement. Section IV of my testimony,
3 Revenue Requirement, provides further information on the impact of removing
4 the Concord Training Center from the Company's revenue requirement in
5 Tables 2, 8, and 9.

6 **II.C Capital Project Lifetime Cost Variance**

7 **Q. Please summarize your recommendation relative to tracking costs of**
8 **capital projects.**

9 A. The OCA recommends Liberty modify how it tracks actual costs of its capital

10 projects to show project costs and variances over the projects entire life, not
11 just annually. The purpose of the modification is to identify projects running
12 over budget since inception. Liberty's current cost tracking process does not
13 track costs on a lifetime basis and therefore cannot easily or efficiently
14 identify over budget projects. Under questioning during the August 23, 2017
15 technical session on project costs, the Company was unable to indicate if
16 larger multi-year projects were under or over budget on a lifetime basis.

17 Liberty stated they track capital expenditures on a yearly basis. Capital
18 expenditures for the life of the project are not tracked. Liberty's ineffective
19 control of capital expenditures and capital expenditure cost variances are also
20 documented in the 2016 Management Audit which is discussed in Section IV A
21 of my testimony - Context of 2016 Management Audit.

22

23

1 **III: BACKGROUND**

2 **Q. Please discuss the Company's previous dockets relevant to issues in your**
3 **testimony.**

4 A. Three dockets relevant to issues discussed in my testimony are:

5 DG 14-155: Sale of New Hampshire Gas Corporation to Liberty Utilities
6 EnergyNorth Gas (Keene or Keene division). Staff and OCA explain potential
7 cost shifting risks to existing EnergyNorth customers if Keene is rolled into
8 EnergyNorth systems (and rates), and that financial concerns can be addressed
9 in future rate cases. Commission Order 25,736 on 11/21/2014 cites the no net
10 harm standard of RSA 369:8, requiring Keene maintain separate distribution
11 rates. According to the financial data included in the Company's 17-048
12 filing, Keene has negative earnings in test year 2016. I am not aware of any
13 Company analysis such as a business plan, cash flow analysis, or financial
14 plan including a forecast of future earnings that addresses potential cost
15 shifting. Section V of my testimony, "Revenue Requirement" removes Keene's
16 revenue requirement from the Company's consolidated proposal.

17 DG 14-180: EnergyNorth Distribution Rate case. This docket establishes
18 EnergyNorth's current rates. EnergyNorth witness Christian Brouillard
19 introduces the Concord Training Center¹ forecast to be used and useful by
20 March 2015 and included as part of Liberty's proposed step increase. This
21 docket mandated a Liberty Consulting Group's report titled "Management and
22 Operations Audit of the Customer Service and Accounting Functions of
23 Liberty Utilities" (referred to as "2016 Management Audit" in my testimony).
24 Section IV of my testimony, "Concord Training Center" discusses the 2016
25 Management Audit as context and evidence that Liberty's management training
26 center capital project was imprudent.

¹ "New Training Center in Concord (2014: approximately \$1,450,000): EnergyNorth will be constructing a new state of the art Training Center in Concord. The new Liberty Utilities Center (LUTC) will be built at 10 Broken Bridge Road, Concord on property owned by the Company. The new two-story building will be approximately 6,200 square feet and contain two instructional classrooms to accommodate 15 students each, two offices, one lab, two accessible restrooms, and an accessible lift to the second-floor and lunchroom. The new facility will serve as a multi-purpose training center for year-round training of those employees who provide service to EnergyNorth and/or Granite State, and will provide a variety of technical hands-on training to meet federal and state mandated requirements for training, certification and re-certification for gas and electric employees and outside utility contractors. The LUTC outside grounds will have simulated gas distribution "leak field" for leak classification and gas line training" DG 14-180 Bates 175

1 DE 16-383: GSEC 2016 Distribution Rate case. In this docket the Concord
2 Training Center cost recovery decision, relative to GSEC proposed training
3 center lease payment to EnergyNorth, is deferred to EnergyNorth's next rate
4 case. Order No 26,005.

5 **IV: CONCORD TRAINING CENTER**

6 **IV.A Context of 2016 Management Audit**

7 **Q. Before discussing training center specifically, please provide a contextual**
8 **overview of Liberty's management of its planning and capital budgeting**
9 **process since the 2012 acquisition and DE 11-040.**

10 A. The 2016 Management Audit is part of the 14-180 docket I discussed briefly in
11 Section III Background of my testimony. The audit occurred as Liberty was
12 experiencing major operational, information technology, and customer service
13 issues following parent Algonquin Power and Utilities Corporation's (APUC)
14 purchase of GSEC and ENG.² The Liberty acquisition required APUC to
15 design and build, from scratch, all the back-office systems for GSEC and
16 ENG. The Liberty acquisition also represented APUC's first experience
17 running an energy utility.³

18 The 2016 Management Audit's third section is titled "III. Planning and
19 Budgeting". This section of the audit conveys three explicit conclusions
20 relevant to my discussion of the Concord Training Center.⁴

² DG 11-040 Order No. 25,370 approves transfer of ownership of GSEC, ENG to Liberty Energy Utilities Corp.

³ Liberty Utilities acquired CalPeco Electric System, and electric distribution utility serving 48,500 customers, in 2011. Reference January 2017 Liberty Utilities Finance GP1 page 15.

⁴ Liberty Consulting Group. "Final Report on A Management and Operations Audit of the Customer Service and Accounting Functions of Liberty Utilities." August 12, 2016. Available at:
https://www.puc.nh.gov/regulatory/Docketbk/2014/14-180/LETTERS-MEMOS-TARIFFS/14-180_2016-08-15_STAFF_LCG_MANAGEMENT_AUDIT_FINAL_RPT.PDF

1 First, it found that Liberty’s planning and analysis of capital projects is
2 inadequate, stating that “Oakville Finance and the parent board were
3 approving capital budgets of 80 plus line items that appear not to have been:
4 [f]ully analyzed, [s]ubjected to considerations of alternatives, [s]upported by
5 business case and capital expenditure applications, or [s]ubjected to detailed
6 cost estimates.” *id.* at III-26.⁵

7 Second, it concludes that internal planning and capital budgeting policies are
8 not generally followed, stating that “New Hampshire operations are not
9 following the policy requirements, especially the requirement that business
10 cases be fully prepared.” *id.*

11 Third, relevant to my discussion and recommendation on life time tracking of
12 capital budgeting expenditures, the report describes Liberty’s cost-tracking for
13 capital expenditures as inadequate, stating that “[r]ecent capital expense
14 variances demonstrate a lack of effective control of capital expenditures.” *id.* at
15 III-27.

16
17 **Q. Do the conclusions you’ve cited from the audit section “Planning and**
18 **Budgeting” apply to the Concord Training Center that was being approved**
19 **at the time?**

20 A. Yes, consistent with the 2016 Management Audit’s conclusions that senior
21 management and the parent company’s board approved “80 plus line items” of
22 capital projects without proper analysis, the discovery phase of DG 17-048

⁵Oakville Finance is located in Oakville Ontario and is part of APUC senior management.

1 provides evidence that the Concord Training Center project was poorly
2 managed from inception, to approval, to local construction and ultimate
3 completion at 270 percent over budget. Liberty management acted
4 imprudently by failing to adequately identify and review possible less costly
5 alternatives to building, owning and running a new training center. Liberty
6 management also failed to follow internal policy requirements cited earlier,
7 including the requirement that “business cases be fully prepared.”

8 **Q. What financial risks exist for rate payers due to Liberty not performing**
9 **prudent capital budgeting and planning steps prior to construction a**
10 **dedicated training center?**

11 A. Liberty’s lack of analysis in 2013-2014 created a risk that the incurred costs of
12 building and maintaining a 6,200 square foot \$3.8 million training facility
13 could have been avoided if an analysis of other alternatives was performed,
14 benefits weighed, and net present values (NPV) of alternative solutions
15 compared – following standard business and finance best practices.

16 **IV.B Evidence of Imprudence**

17 **Q. Regarding evidence, what time period does OCA view as relevant when**
18 **evaluating prudence of Liberty’s decision to build the Concord Training**
19 **Center?**

20 A. OCA’s assessment of prudence is limited to documentation and analysis that
21 existed at the time when the actual capital budgeting decision was made. To
22 the best of my knowledge, and notwithstanding the fact that some documents
23 of evidence lack senior management signatures, the decision to build the
24 training center occurred in early 2014. Any and all documents leading up to

1 the early 2014 decision are the OCA’s primary evidence. Conversely, post
2 decision documents, including discovery, testimony and other retrospective
3 summaries of new benefits and new uses possible uses for the facility (for
4 example customer outreach, training related events, emergency backup site)
5 are not viewed relevant in the 2014 decision to build and own.⁶

6 **Q. Please describe the scope of evidence you reviewed.**

7 A. OCA reviewed filings and discovery related to the training center for dockets
8 DG 14-180, DE 16-383, DG 16-560, and DG 17-048. I reviewed DE 11-040
9 and the 2016 Management Audit. Included in my review was Liberty’s
10 response to comprehensive data request OCA 4-20 in DG 17-048 requesting
11 the business case that senior management used to approve the training center,
12 the analysis of need for a new training center, the analysis of costs and
13 benefits of a new training center, and the analysis of alternative solutions
14 including the costs and benefits of such alternative solutions. See JJB-2.

15 **Q. What evidence exists that Liberty’s 2013-2014 planning and capital budget**
16 **process, relative to the decision to build the Concord Training Center, was**
17 **not prudent?**

18 A. To my knowledge the only documentation of Liberty’s analysis leading up to
19 approval of the training center, is a 1/24/2014 two page business case received
20 by the OCA on or near the August 28, 2017 technical session labeled PB-2.1

⁶ Robert Burns, National Regulatory Research Institute, April 1985 “*The Prudent Investment Test in the 1980s*”
(describing prudency evaluation as based on information known at the time of the decision to invest)
<http://ipu.msu.edu/wp-content/uploads/2016/12/Burns-Prudent-Investment-Test-84-16-85-1.pdf>

1 and PB-2.2 See JJB-1 Liberty 1/24/2014 and 5/1/2014 updated Training Center
2 Business Case.

3 **Q. Please review the 1/24/2014 two page business case Liberty relied on to**
4 **approve the Concord Training Center in early 2014.**

5 A. The business case shows:

- 6 1. \$1,028,100 estimated cost to build the training center. This was later
7 updated to \$1,053,100 on 5/1/2014;
- 8 2. National Grid Training facility in Millbury, MA is listed as the
9 only alternative;
- 10 3. \$400,000 annual estimated cost of using an outside agency for
11 training;
- 12 4. “Simple ROI for the project has payback in less than 3 years” is the
13 only financial assessment provided; and
- 14 5. “No risk foreseen if construction schedule is met” is the complete
15 risk assessment.

16
17 The business case does not have supporting calculation schedules, does not
18 include an analysis of forecast training needs, does not assess all risks, does
19 not provide an analysis of factors that could mitigate risks, and does not
20 adequately explain or analyze costs and forecasted return on investment (ROI).

21 In summary the document lacks depth and does not exhibit the required level
22 of analysis or contain necessary information to properly analyze the merits of
23 building and running a dedicated training center compared to other training
24 alternatives.

25 Regarding the assessment of risk, “No risk foreseen if construction schedule is
26 met”, this section of the business case analysis excludes the review of other
27 risks (beyond a construction schedule delay), and excludes a discussion of risk

1 mitigation. There is no discussion of steps, completed or planned, the
2 Company performed, or would perform, in order to minimize the impact of
3 risks on rate payers from risks. For example, was the risk of underestimating
4 project costs identified and were steps taken to minimize this risk through
5 prudent planning before deciding to build the facility?⁷ And, would project
6 management be prudent once the project was green lighted?⁸ At what level
7 would unmitigated risks, such as cost overruns, offset the economics of the
8 project? Strategically, owning and operating a training center would require
9 Liberty to build new areas of internal expertise and experience that did not
10 exist in 2014. A dedicated facility would add new overhead fixed costs⁹ that
11 would be in addition to existing training costs (for example trainers, staff,
12 supplies, support costs, supplies and support) that would continue into the
13 future.¹⁰ Essentially, Liberty was expanding beyond an electric and gas
14 distribution company to also include training center business. Compounding
15 these risks is the fact that parent APUC management and local Liberty
16 management were struggling to resolve operational issues at both ENG and
17 GSEC.¹¹ To some extent, these risks contributed toward 270 percent cost
18 overruns, and prevented expected savings in overall training costs as expected.

⁷ Final cost to build the training center was \$3.8 million. Reference See JJB-3 OCA 4-26

⁸ Project management of the Concord Training Center was outsourced to vendors See JJB-4 OCA 4-23

⁹ OCA calculates a training center revenue requirement to exceed \$800,000 annually.

¹⁰ Liberty training costs, that are in addition to costs of owning the Concord Training Center, include two professional full time trainers. Reference JJB-5 Staff Tech 3-2

¹¹ Reference related Liberty dockets including DG 11-040, DG 14-180, DG 16-383

1 Regarding the analysis of \$400,000 estimated external training costs, and the
2 financial assessment of a 3 year payback, there is no supporting documentation
3 of assumptions and calculations. The document does not provide explanation
4 or rationale for using simple payback method as a basis for this capital
5 budgeting decision. In summary, the analysis of costs and ROI is unsupported
6 while the business case assessment of risk is shortsighted, misleading, and
7 lacking strategic insight.

8 **Q. Did Liberty exercise prudent planning, capital budgeting, and decision**
9 **making with the Concord Training Center?**

10 A. No. For reasons stated above, and performance consistent with conclusions
11 made in the 2016 Management Audit, the decision to build the Concord
12 Training Center was imprudent and places the burden of those imprudently
13 incurred costs on ratepayers through the instant docket's revenue requirement.
14 Liberty's management of the Training Center project is accurately described as
15 absentee management.

16
17 **V: REVENUE REQUIREMENT**

18 **Q. Please summarize the impact of OCA's recommendations on**
19 **EnergyNorth's proposed revenue requirement.**

20 A. Table 2 incorporates the OCA's above-mentioned recommendations into an
21 overall revenue requirement and compares it with EnergyNorth's requested
22 revenue requirement. A narrative describing the overall revenue requirement
23 follows the table, along with further tables and discussion detailing

1 adjustments associated with Keene, the Concord Training Center, and, and the
 2 rate of return suggested by the OCA.

Table 2: Summary of Impact of OCA’s Recommendations to EnergyNorth Operating Income and Revenue Deficiency

								1604: v11-23-17 Staff TS 1-1 Supplemental 17-048	
								Test Year	2016
								Tax factor	1.65
								OCA ROE	0.0840
								OCA WACC	0.0641
	col 1	col 2	col 3	col 4	col 5	col 6	col 7		
	Company Request ENG	OCA Adjustment ENG	OCA proposed Adjusted ENG	Impact of OCA WACC Recommendation	OCA Recommendation (ENG division)	\$ Total Adjustment (ENG division)	% (ENG division)		
1	NOI Requirement	\$ 18,398,298	\$ (266,103)	\$ 18,132,196	\$ (2,339,638)	\$ 15,792,558	\$ (2,605,741)	-14.2%	
2	NOI Present Rates	\$ 9,961,580	\$ 229,200	\$ 10,190,780	\$ -	\$ 10,190,780	\$ 229,200	2.3%	
3	NOI Deficiency	\$ 8,436,718	\$ (495,303)	\$ 7,941,416	\$ (2,339,638)	\$ 5,601,778	\$ (2,834,941)	-33.6%	
3	4 Revenue Deficien	\$ 13,924,275	\$ (817,466)	\$ 13,106,809	\$ (3,861,426)	\$ 9,245,383	\$ (4,678,892)	-33.6%	

4

5 **V.A Overall Revenue Requirement**

6 **Q. What revenue increase has Liberty requested?**

7 A. The Company's 4/28/2017 petition requested recovery of an annual deficiency
 8 of \$13,749,361 based on a consolidated rate base of \$252,028,685 which
 9 represented an 11.21% increase in total operating revenues for EnergyNorth
 10 and Keene combined. The Company also requested approval for a step
 11 increase, concurrent with the permanent rate increase, to recover an annual
 12 revenue deficiency of \$6,071,562 for EnergyNorth and Keene combined. (see
 13 Bates 009 and Bates 028).

14 In September 2017 the Company submitted updated revenue requirement
 15 schedules (Staff Tech 1-1). The updated consolidated revenue deficiency was
 16 \$15,030,653 for EnergyNorth and Keene combined. In the week of November
 17 20, 2017 the Company submitted Supplement Staff Tech 1-1 final revenue

1 requirement schedules showing a consolidated revenue deficiency of
2 \$13,924,275 based on a consolidated rate base of \$249,8991,998 which the
3 OCA has used in its revenue requirement calculations.¹²

4 **Q. When was the Company's current revenue requirement for distribution**
5 **set?**

6 A. The Company's last rate case was DG 14-180. Distribution rates were
7 established in Order No. 25,797. *Liberty Utilities Corp.*, Order No. 25,797
8 (June 26, 2015).

9 **Q. What is the breakdown of Liberty's updated \$14,808,946 consolidated**
10 **revenue deficiency?**

11 A. The consolidated revenue deficiency of ENG and Keene is \$14,808,946 as
12 shown below in line 4 of Table 3 "Consolidating Revenue Requirements of
13 Energy North and Keene.

Table 3: Consolidating Revenue Requirements of EnergyNorth and Keene - Including Rate Base Balances

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048						
	col 1			col 2		col 3
Line	Company Request ENG	+		Company Request Keene	=	Consolidated 1604 ENG +Keene
1	NOI Requirement	\$ 18,398,298	+	\$ 167,103	=	\$ 18,565,401
2	NOI Present Rates	\$ 9,961,580	+	\$ (368,919)	=	\$ 9,592,661
3	NOI Deficiency	\$ 8,436,718	+	\$ 536,022	=	\$ 8,972,740
4	Revenue Deficiency	\$ 13,924,275	+	\$ 884,671	=	\$ 14,808,946
5	Rate Base	\$ 249,891,998	+	\$ 2,269,649	=	\$ 252,161,647

14
15 **Q. What test year has the Company used in this request?**

16 A. The Company's request is based on a 2016 test year.

17 **Q. How did the Company calculate its consolidated revenue requirement?**

¹² Note some OCA calculations may differ slightly from Company's calculations due to processing and rounding differences.

1 A. According to the Company, 2016 test year revenues were adjusted for flow
2 through items, and adjusted for known and measurable items, which resulted in
3 test year pro forma net operating income reflecting normalized revenues at
4 current rates, expenses and net operating incomes for rate making purposes.
5 My understanding is that this methodology was utilized for both Energy North
6 and Keene.

7 **Q. Did the OCA calculate a consolidated revenue requirement?**

8 A. No, as stated earlier in my testimony, OCA has calculated a revenue
9 requirement for Energy North only. Therefore our recommendation is not a
10 consolidated revenue requirement and does not make a recommendation
11 relative to Keene's revenue requirement.

12 **Q. Please describe OCA's methodology for calculating revenue requirements**
13 **in this docket.**

14 A. Summary recommendations are presented in initial tables, which are supported
15 with further tables containing details of adjustments. In conducting my
16 analysis I first removed Keene's revenue requirements. Keene adjustments are
17 discussed in the next part of my testimony. Second, I adjusted Energy North
18 revenue requirement removing the Concord Training Center revenue
19 requirements including rate base and operating expenses. Following these
20 adjustments I calculated the impact of OCA's proposed return.

21

1 **V.B Revenue Requirement Tables and Schedules**

2 **Keene Adjustments**

3 **Q. Please explain the purpose of the Keene adjustments.**

4 A. As discussed earlier, the OCA is not reviewing or recommending a Keene
5 revenue requirement in this docket. The purpose of the Keene adjustments is
6 to remove Keene's requirement in order to allow a revenue requirement
7 analysis exclusively focused on the Energy North proposed \$13,924,275
8 revenue deficiency. Table 4 below shows the Company's revenue requirement
9 proposal excluding Keene in column 3.

Table 4: Summary of NOI and Revenue Deficiency With and Without Keene

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048				
	col 1	col 2	col 3	
	Consolidated 1604 ENG +Keene	OCA Adjustment remove Keene	Company Request ENG	
1 NOI Requirement	\$ 18,565,401	\$ (167,103)	\$ 18,398,298	
2 NOI Present Rates	\$ 9,592,661	\$ 368,919	\$ 9,961,580	
3 NOI Deficiency	\$ 8,972,740	\$ (536,022)	\$ 8,436,718	
4 Revenue Deficiency	\$ 14,808,946	\$ (884,671)	\$ 13,924,275	

10

11

12 **Q. What specific adjustments were made to remove Keene's revenue**
13 **requirement?**

14 A. Two sets of adjustments were made to remove Keene. Regarding rate base,
15 Table 5 shows individual rate base components, and Table 6 shows the actual
16 rate base balance being removed from the consolidated request. Regarding
17 operating expenses, Table 7 shows individual expenses removed from the
18 consolidated request.

1 **Q. Please discuss Table 5 "Adjustment to Remove Keene from Revenue**
2 **Requirement - Rate Base.**

3 A. Table 5 "Adjustments to Remove Keene Revenue Requirement - Rate Base"

4 shows the Keene related adjustments to the Company's consolidated rate base.

Table 5: Adjustment to Remove Keene Revenue Requirement - Rate Base

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048				
	col 1	col 2	col 3	
Line	OCA Adjustment	Adjustment Amount	Company Proposal w Keene	
1	adj 2.1 Utility Plant (Keene RB)	\$ (4,690,027)	\$	474,281,599
2	adj 2.2 Accumulated Dep (Keene RB)	\$ 2,209,805	\$	(156,574,775)
3	adj 2.3 Supplies (Keene RB)	\$ (115,674)	\$	6,948,817
4	adj 2.3a Cash Working Capital (Keene RB)	\$ (98,758)	\$	2,750,118
5	adj 2.4 Prepayments (Keene RB)	\$ (62,099)	\$	2,767,078
6	adj 2.5 Audit Issue (Keene RB)	\$ (34,424)	\$	34,424
7	adj 2.6 Deferred Inc Tax Cr (Keene RB)	\$ 473,107	\$	(80,054,998)
8	adj 2.7 Customer Deposits (Keene RB)	\$ 48,421	\$	(1,823,289)

5

6

7 **Q. Please discuss Table 6 "Adjustment to Rate Base balance -Remove Keene".**

8 A. Table 6, "Adjustment to Rate Base Balances - remove Keene", shows Keene's

9 rate base of \$2,181,474 being removed from the consolidated balance. The

10 Energy North rate base balance, prior to OCA adjustment, is \$249,891,998

11 shown in column.

Table 6: Adjustments to Rate Base Balance- Remove Keene

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048				
	col 1	col 2	col 3	
Line	Consolidated 1604 ENG +Keene	OCA Adjustment remove Keene	Company Request ENG	
1	Rate Base	\$ 252,073,472	\$ (2,181,474)	\$ 249,891,998

12

13

1 **Q. Please discuss Table 7 "Adjustment to Remove Keene Revenue**
2 **Requirement - Operations".**

3 A. Table 7, "Adjustment to Remove Keene Revenue Requirement - Operations"
4 column 2 shows adjustments to revenue, depreciation and O&M removing
5 Keene operations from the revenue requirement.

Table 7: Adjustments to Remove Keene Revenue Requirement - Operations

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048

	col 1	col 2	col 3
Line	OCA Adjustment	Adjustment Amount	Company Proposal w Keene
1	adj 2.8 O&M Gas (Keene)	\$ 25,461	\$ (903,867)
2	adj 2.9 O&M Distribution (Keene)	\$ (276,381)	\$ 12,815,613
3	adj 2.10 Customer Accounting (Keene)	\$ (52,413)	\$ 6,161,305
4	adj 2.11 General Administrative (Keene)	\$ (1,094,370)	\$ 12,823,203
5	adj 2.12 Depreciation (Keene)	\$ (380,289)	\$ 19,337,592
6	adj 2.33 Other taxes (Keene)	\$ (207,116)	\$ 11,145,837
7	adj 2.13 Fed Income Tax (Keene)	\$ 272,379	\$ 1,751,253
8	adj 3.1 Revenue Adjustment (Keene)	\$ (1,343,810)	\$ 70,693,241

6
7

8 **Concord Training Center Adjustments**

9 **Q. Please explain the purpose of the Concord Training Center adjustments**
10 **being made to the ENG revenue requirement.**

11 A. As discussed, the OCA's position is that the training center capital project was
12 not prudently managed and is not appropriate for inclusion in Energy North's
13 rate base or revenue requirements.

14 **Q. What specific adjustments were made to remove the Concord Training**
15 **Center revenue requirement?**

16 A. Two sets of adjustments were made to remove the revenue requirement.
17 Regarding rate base, Table 8 shows the net rate base reduction. Regarding
18 operating expenses, Table 9 shows the training center expenses removed from
19 the consolidated request.

1 **Q. Please discuss Table 8 "Adjustment to Energy North - Rate Base".**

2 A. Table 8 "Adjustments to Energy North - Rate Base" shows the Training Center
3 related adjustments to the Company's consolidated rate base.

Table 8: Adjustment to EnergyNorth - Rate Base

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048

	col 1	col 2
Line	OCA Adjustment	Adjustment Amount
1	adj 1.1 Training Center Utility Plant	\$ (3,614,297)

4

5

6 **Q. Please discuss Table 9 "Adjustment to Energy North – Operations".**

7 A. Table 9 "Adjustments to Energy North - Operations" shows adjustments for
8 depreciation and expenses associated with the Concord Training Center.

Table 9: Adjustments to EnergyNorth - Operations

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048

		col 2	col 3
Line	OCA Adjustment	Adjustment Amount	Company Proposal w Keene
1	adj 1.2 Training Center O&M	\$ (71,700)	\$ 12,815,613
2	adj 1.3 Training Center depreciation exp	\$ (129,000)	\$ 19,337,592
3	adj 1.4 Training Center other taxes	\$ (28,500)	\$ 11,145,837

9

10

11 **Q. What is the impact on Energy North's revenue requirement based on the**
12 **disallowance of the training center?**

13 A. The disallowance of the training center reduces the revenue deficiency by
14 \$817,446. See Table 2 column 2.

15 **Return and Rate Base Schedules**

16 **Q. Please discuss Table 10 "Capital Structure and Cost".**

17 A. Table 10 "Capital Structure and Costs" summarizes the Company's capital
18 structure and shows the cost of capital's impact on the company's required

1 revenues based on the ROE recommendation of 8.4% by OCA witness Dr.
2 Chattopadhyay, compared to 10.3% proposed by the Company. The OCA is
3 recommending a 6.413% Weighted Average Cost of Capital (WACC) compared
4 to the Company's proposed WACC of 7.363%. The Company's balance sheet
5 reflects book value capital structure of 36.9% debt and 63.1% equity. Both the
6 Company and the OCA use a theoretical weighting of 50% debt and 50%
7 equity for calculating the WACC.

Table 10: Capital Structure and Costs

	col 1	col 2	col 3	col 4
Line		Annual Report	Consolidated 1604 ENG +Keene	OCA Recommendation (ENG division)
1	Debt	\$ 90,000,000		
2	Equity	\$ 153,649,425		
3			Theoretical	Theoretical
4	Debt Weighting	36.94%	50.00%	50.00%
5	Equity Weighting	63.06%	50.00%	50.00%
6	ROE		10.30%	8.40%
7	WACC after tax		7.363%	6.413%

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9

10 **Q. Please summarize all OCA rate base adjustments.**
11 A. Table 11 Adjustments to Rate Base Balances – Consolidated” shows OCA’s
12 rate base adjustments.

Table 11: Adjustments to Rate Base Balances - Consolidated

1604: v11-23-17 Staff TS 1-1 Supplemental 17-048

		col 1	col 2	col 3	col 4	col 5
Line		Consolidated 1604 ENG +Keene	OCA Adjustment remove Keene	Company Request ENG	OCA Adjustment ENG	OCA proposed Adjusted ENG
1	Rate Base	\$ 252,161,647	\$ (2,269,649)	\$ 249,891,998	\$ (3,614,297)	\$ 246,277,701

1

2

3 **Q. What is OCA’s final revenue requirement recommendation?**

4 A. The OCA recommends removal of all Keene revenue requirements and step
5 increases, disallowance of the Concord Training Center, and an Energy North
6 revenue deficiency no greater than \$9,245,383.

7 **Q. Does this conclude your testimony?**

8 A. Yes.