





STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DE 15-137

Energy Efficiency Resource Standard

Joint Rebuttal Testimony of Karen M. Asbury, Cindy L. Carroll, Carol M. Woods, Eric M. Stanley, Heather M. Tebbetts, Rhonda J. Bisson, and Edward A. Davis On Behalf of Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities New Hampshire Electric Cooperative, Inc. Public Service Company of New Hampshire d/b/a Eversource Energy Unitil Energy Systems, Inc. Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities Northern Utilities, Inc.

March 1, 2016



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1 I. Introduction of Witnesses

2 **Q.** Please state your names.

A. Karen M. Asbury and Cindy L. Carroll (Unitil), Carol M. Woods (NHEC), Eric M. Stanley
and Heather M. Tebbetts (Liberty), Rhonda J. Bisson and Edward A. Davis (Eversource
Energy).

6 Q. Have you previously filed direct testimony in this proceeding?

A. Cindy L. Carroll, Carol M. Woods, Eric M. Stanley, and Rhonda J. Bisson submitted joint
testimony on behalf of the Utilities in this proceeding on December 9, 2015.

9	Q.	For those of you who have not already filed testimony, by whom are you employed and
10		in what capacity?
11	A.	Karen M. Asbury: I am Director of Regulatory Services for Unitil Service Corp., an affiliate
12		of Northern Utilities, Inc. and Unitil Energy Systems, Inc., which are all subsidiaries of
13		Unitil Corporation. My primary responsibilities are directing rate and regulatory filings.
14		Edward A. Davis: I am Director of Rates for Eversource Energy. I am responsible for
15		activities related to rate design, cost of service and other rate-related matters for the
16		Eversource Energy operating companies.
17		Heather M. Tebbetts: I am a Utility Analyst for Liberty Utilities Service Corp. and in this
18		capacity, am responsible for providing rate-related services for the Liberty Utilities
19		operating companies.

1	Q.	Please describe your business and educational backgrounds.
2	A.	Karen M. Asbury: I received a Bachelor of Science Degree in Mathematics from the
3		University of New Hampshire in 1987. I joined Unitil Service Corp. in January 1988 and
4		have held various positions in the regulatory/rate department.
5		Edward A. Davis: I received a Bachelor of Science degree in Electrical Engineering from
6		the University of Hartford in 1988, and a Master of Business Administration degree from
7		the University of Connecticut in 1997. I joined Eversource Energy's predecessor, Northeast
8		Utilities, in 1979 and have held positions with responsibilities in the areas of consumer
9		economics, engineering, operations, wholesale and retail marketing, and rate design,
10		regulation and administration.
11		Heather M. Tebbetts: I received a Bachelor of Science degree in Finance from Franklin
12		Pierce University in 2004. I received a Master's of Business Administration from Southern
13		New Hampshire University in 2007. I joined Liberty in October of 2014 as a Utility
14		Analyst. Prior to my employment at Liberty, I was employed by Public Service Company
15		of New Hampshire ("PSNH") as a Senior Analyst in NH Revenue Requirements from 2010
16		to 2014. Prior to my position in NH Revenue Requirements, I was a Staff Accountant in
17		PSNH's Property Tax group from 2007 to 2010, and a Customer Service Representative III
18		in PSNH's Customer Service Department from 2004 to 2007.

19 Q. Have you previously testified before the New Hampshire Public Utilities Commission?

20 A. Karen M. Asbury: Yes, I have previously testified on numerous occasions before the

21 Commission on rate related matters.

1 Edward A. Davis: Yes, I have previously testified before the Commission.

Heather M. Tebbetts: Yes, I have previously testified on numerous occasions before the
 Commission.

4 Q.

What is the purpose of this rebuttal testimony?

The Utilities continue to aggressively support efficiency throughout New Hampshire. The 5 A. 6 Utilities propose the adoption of their testimony in full, as it provides a transparent and balanced solution for the development and implementation of an EERS in New Hampshire. 7 It also allows for the amount of energy efficiency pursued on an annual basis to be tailored 8 9 to the level at which the Commission deems appropriate. In response to the other proposals received in this docket, the following testimony addresses issues related to: comparisons of 10 LRAM and decoupling; lost revenue recovery caps and adjustments; gas conversion 11 customers; savings targets; uniform utility savings; and a clarification of the System 12 Benefits Charge ("SBC") rate components. 13

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II. Lost Revenue Recovery – Comparing LRAM vs. Decoupling

15Q.Testimony filed by parties other than the Utilities on December 9, 2015 propose an16initial Lost Revenue Adjustment Mechanism ("LRAM") with a transition to full

- 17 decoupling as soon as practicable. Do the Utilities agree with this approach?
- A. No. The Utilities believe that as part of an EERS, an LRAM is the most appropriate and
 efficient mechanism for compensating utilities for lost revenues resulting from energy
 efficiency measures. By definition, an EERS is focused only on energy efficiency. An
- 21 LRAM addresses only lost revenues resulting from energy efficiency measures and no other

1		causes. Full decoupling, by contrast, encompasses all aspects of an individual distribution
2		company's business, not just its energy efficiency programs. The LRAM proposed by the
3		Utilities is administratively more efficient than decoupling because it can be implemented
4		without a rate case, thereby allowing all utilities to have an LRAM in place
5		contemporaneously with their EERS programs. In contrast, a decoupling mechanism can
6		only properly be implemented following individual company full rate cases. As stated in
7		Commission Order 24,934 in Docket No. DE 07-064, at page 22: "Regardless of the model
8		used, it would be appropriate to propose revenue decoupling in the context of a rate case in
9		order to avoid single-issue ratemaking." Additionally, the Study Committee established by
10		Senate Bill 60 (N.H. Laws of 2015, Chapter 148) to investigate implementation of
11		decoupling for New Hampshire utilities recommended in its final report that if decoupling is
12		pursued in New Hampshire, it would be best achieved in the context of an individual
13		utility's rate case proceeding. In view of the foregoing, decoupling is not a viable solution
14		for recovering lost revenue resulting solely from energy efficiency measures.
15	0.	Staff's Direct Testimony, at page 42, line 835 states that "unintended, windfall profits
1.6	χ.	sould normely? from implementing on LDAM that is not construlty designed. Do the
16		could result "from implementing an LKAWI that is not carefully designed. Do the
17		Utilities agree with this statement?
18	A.	No. A properly designed LRAM restores revenues of an individual distribution company to
19		the level that would have been achieved without the implementation of energy efficiency

- 20 measures. By definition, there is no profit under the LRAM that is beyond what the
- 21 distribution company is allowed to achieve under rates that have been approved by the
- 22 Commission, and which were designed without regard to such energy efficiency measures
- 23 being implemented. With an LRAM, a utility is left in the financial position contemplated
- by its last rate case, *i.e.*, equal to where it would have been absent any energy efficiency

measures, no better or worse. Additionally, since an LRAM is calculated through a
documented formula, and the energy efficiency savings are based upon current EM&V
studies, the accuracy of the calculations of lost revenues claimed for recovery are verifiable
and demonstrate that the recovery is justified, similar to how performance incentives are
currently handled. Finally, the rates calculated under the LRAM are subject to the review
and approval of the Commission on an annual basis through an adjudicatory proceeding
which provides for full transparency.

8 Q. Please describe the general methodology used to calculate lost revenues via an LRAM, 9 as proposed by the Utilities.

A. Under the Utilities' proposal, all measures installed after the initiation and implementation 10 11 of an EERS will have 100% of their savings included in the lost revenue calculation until 12 the measures expire. The expiration date of any individual measure will depend upon the measure life of the specific measure installed. Once a measure expires, 100% of those 13 savings will be removed from the calculation, just as is done with reporting savings in ISO-14 15 NE's Forward Capacity Market. In Year One (on day one) of the EERS, lost revenues will begin at zero. Any forecasted savings resulting from energy efficiency programs for that 16 year will be included in the lost revenue calculation, and will be the basis for the revenue to 17 be collected through the LRAM. Once the actual amount of energy efficiency program 18 savings achieved becomes known, the LRAM will be reconciled to ensure the proper 19 amount of lost revenues are collected. The reconciled savings for those measures installed 20 will be carried forward and included in subsequent LRAM calculations until they each 21 expire. Year Two will include the reconciled Year One savings as well as the forecasted 22 23 Year Two savings in the lost revenue calculation and will be reconciled in the same manner

as the Year One savings. For each distribution company this process will continue until a
 rate case for that company occurs, at which time the lost revenues specific to that utility will
 reset to zero and the calculation will start anew.

Q. Staff's Direct Testimony, at page 37, line 744 indicates that LRAM should be included as a cost within the cost-effectiveness test for energy efficiency programs. Do the Utilities agree with this approach?

7 A. No. The Utilities firmly believe that it is inappropriate to include LRAM as part of any 8 cost-effectiveness test for energy efficiency measures. As NHSEA et al correctly noted in 9 the attachment to their testimony at page 14 "lost revenue is *not* an additional cost of energy efficiency programs". It is also important to note that the Utilities are not aware of, and no 10 party has identified, any jurisdictions in the United States that view lost revenues as a cost 11 12 of energy efficiency and include it as part of a cost-effectiveness test. The Utilities' view is also supported by the Regulatory Assistance Project ("RAP") which has stated "...lost 13 revenues are not a new or an incremental cost in the same way that the program 14 15 administration costs are a new and incremental cost of implementing energy efficiency programs, and they should not be applied as such in screening a new energy efficiency 16 resource."¹. 17

While it is not entirely clear what would happen to energy efficiency programs in New Hampshire if lost revenues were to be considered as costs, what is clear is that the cost to achieve each saved kWh or therm would increase, and all energy efficiency programs would need to be re-evaluated each year. Programs that are currently cost-effective could become cost-ineffective, since benefits would remain constant but the cost side of the equation

¹ http://www.raponline.org/document/download/id/6149, page 16

would increase. Also, programs that are cost-effective and successful in other states (none
of which include LBR in their cost effectiveness tests) might not be viable in New
Hampshire because those programs could not be delivered cost effectively. This would
result in New Hampshire utilities not being able to incent measures and offer programs that
are similar to those of their peers in other jurisdictions, thereby making it difficult to meet
enhanced savings goals under an EERS. For the foregoing reasons, Staff's inclusion of
LRAM as a cost in the cost-effectiveness test is improper.

8 III. Lost Revenue Recovery – Cap and Adjustments on Recovery

9 Q. At page 39, lines 774-776 and lines 784-786 of their Direct Testimony, Staff asserts that
10 there should be a cap placed on the amount of lost revenues that are allowed to be
11 collected. Do the Utilities agree with Staff's position?

12 A. No, the Utilities do not believe there should be a cap on lost revenues. Lost revenues are a byproduct of energy efficiency savings. Therefore, as energy efficiency savings increase, 13 the corresponding lost revenues would increase as well. Lost revenue recovery simply 14 15 restores the assumed relationship between sales level and revenue requirements that were the basis for setting rates in each utility's rate case. A cap on lost revenue recovery would 16 prevent a utility from recovering all of its lost revenues attributable to energy efficiency. In 17 that instance, a revenue shortfall is created, the purpose of an LRAM is not fulfilled, and the 18 19 result is confiscatory. For all of the foregoing reasons, a cap on lost revenue recovery is improper. 20 Additionally, having a cap in place that renders lost revenues above a certain level 21

22 unrecoverable would create a disincentive for the Utilities to pursue energy efficiency

beyond the cap. If the overall financial impact of installing measures beyond a cap is

negative (i.e. lost future sales, the revenue from which cannot be collected), it would
 discourage any investment beyond the cap. It would likewise discourage the pursuit of all
 cost-effective energy efficiency measures and could leave significant potential savings
 unrealized.

Q. At page 40, lines 801-809 of their Direct Testimony, Staff asserts that there should be a retirement adjustment to reduce previously installed measures' savings by 50% when they retire. Do the Utilities agree with Staff?

8 A. No. The backward looking retirement adjustment proposed by Staff should not be used. The 9 Utilities understand the Staff adjustment to be based upon the assumption that when an installed energy efficiency measure is retired (for example, an energy efficient washing 10 11 machine breaks down and is replaced), "the associated savings come to an end...the 12 utilities' revenues will increase and LR will decrease" (Staff Testimony, Page 40, Lines 803-805). Staff's adjustment then applies a discount of 50% to this theoretical increase in 13 energy use. Given the advances in technologies, higher federal standards and energy codes, 14 15 and consumer tastes, this assumption is not justified. A measure that qualified as "highly efficient" years ago is essentially the low-end version of a product now. Therefore, as those 16 old measures expire, they will be replaced by measures that are at least as efficient as the old 17 efficient measure, and, as a result, sales will either remain constant or decrease as those old 18 measures expire and new measures are installed. Furthermore, Staff's backward looking 19 retirement adjustment does not consider that utilities have filed rate cases. Staff's reduction 20 of lost revenue based on 50% of an assumed increase in sales occurring upon the retirement 21 of energy efficiency measures is unfounded and confiscatory. 22

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Q. Please further describe the changes in standards and codes that have occurred over
 time which supports the Utilities' position that delivered sales will either hold flat or
 further decline as measures expire.

A. The Federal Government established appliance and equipment efficiency standards starting 4 with the Energy Policy and Conservation Act in 1975. Since that time, standards have been 5 6 expanded and increased multiple times with amendments to the original act, the National Appliance Energy Conservation Act of 1987, the Energy Policy Act of 1992, the Energy 7 Policy Act of 2005 and the Energy Independence and Security Act of 2007. To comply 8 9 with these Acts, the Department of Energy (DOE) is required to regularly review and update all standards and test procedures for appliances manufactured and sold in the United States. 10 State Building Codes are similarly reviewed and updated on a regular basis. The 11 International Code Council develops model codes and standards on a 3-year cycle. The 12 State Building Code Review Board is required by New Hampshire Statute to review and 13 amend the state-adopted code. The State Building Code was adopted in 2002, revised in 14 2010 and a new version is presently before the legislature for adoption in 2016. 15

The effect of the updates to these federal requirements and building codes is that minimum efficiency standards have increased over time for appliances, equipment and building construction. Given the average lifetime of measures, it would be highly unlikely and uneconomical for customers to replace a program product with a product that uses more energy than an energy efficient model purchased years ago.

Refrigerators provide a useful example. For a customer who received an incentive for a new
 refrigerator in 2004, the Utilities would have calculated savings based on the difference

between an Energy Star unit (annual usage of 445kWh at that time) and a Federal Standard 1 unit (524 kWh annually at that time). The incentive would be based upon the assumption 2 that the Energy Star model would provide annual savings of 79 kWh over the standard 3 model. When that refrigerator reached the end of its useful life (the Utilities assume a 12 4 year life, so that would occur in 2016), the customer could then purchase a Federal Standard 5 unit or another Energy Star unit. The 2016 federal standard unit uses 438 kWh a year. If 6 half of customers purchase the baseline unit and half of customers purchase a new Energy 7 Star unit (394 kWh annually), then the load 'growth' is actually negative—the load on the 8 9 grid decreases by 29 kWh.

Lighting provides another example. A customer who replaced a 60W incandescent bulb 10 with a 9W LED in 2011 would save 51 kWh annually. By 2020, well before that LED's 11 2031 expiration date, federal standards will have increased such that incandescent and 12 13 halogen bulbs can no longer be purchased, and conversations with manufacturers indicate that they no longer plan to produce CFLs either. The customer's new baseline option 14 therefore would be an LED or another new technology. The new option in 2031 would be at 15 16 least as efficient as the LED from 2010 and likely more efficient given the trend for improvements in technology. Therefore, a decrease in load is actually more likely in this 17 18 scenario than load growth.

In addition, there are other measures for which a reversal to the original state would be completely impractical, such as with insulation. The Utilities assume a conservative 25 year life for this measure, to account for changes in usage, renovations, etc. However, for many homes, that insulation is still in place and in use at the end of the 25 years, and a homeowner

is unlikely to open their walls and replace it with a lesser amount of insulation.

2	Q.	How do the Utilities propose to handle retirement of measures installed before and
3		after the implementation of an EERS?
4	A.	No measures installed prior to the implementation of an EERS will affect the calculation of
5		lost revenues whatsoever. In the Utilities' proposal, measures installed prior to the
6		implementation of an EERS are ineligible for lost revenue recovery. For energy efficiency
7		measures installed as part of the EERS that expire based on their measure life or through a
8		rate case, their savings would no longer be counted as described on page 7.
9	Q.	Should there be a reduction to the recovery of future lost distribution revenue for
10		measures installed after the implementation of an EERS?
11	A.	No. While Staff has proposed a so-called "one-time" incremental adjustment to lost
12		distribution revenue, that adjustment would result in a permanent, annual reduction to the
13		total level of lost revenue recovery. At the time the proposed EERS would begin, sales and
14		therefore distribution revenue for each utility will have already been lower due to
15		cumulative EERS measures installed up to that point. Since the Utilities are seeking only to
16		recover lost distribution revenue for measures installed after the implementation of an
17		EERS, implementation of Staff's proposal for an incremental adjustment would deny the
18		recovery of a significant level of actual lost distribution revenue for energy efficiency
19		savings achieved each year once the EERS was implemented.

1	IV.	Lost Revenue Recovery – Gas Conversion Customers

2	Q.	At page 41, lines 810-816 of Staff's Direct Testimony, Staff states: "In a significant
3		number of gas heating and hot water installations, it appears that customers
4		convert/switch from oil to gas; thus, gas sales volumes increase. This increase in gas
5		sales volumes reduces the utilities' LR. Much of this conversion/switching is assumed
6		to be associated with the installation of new high efficiency gas heating and hot water
7		installations; thus, the Model reduces the calculated LR accordingly." Do the Utilities
8		agree with Staff's assumptions?
9	A.	No. Based on actual experience, the Utilities believe that Staff's assumptions are not
10		correct.
11	0	Plaasa avalain
11	Q.	T lease explain.
12	А.	The natural gas utilities account for anticipated new customer growth in their respective
13		planning processes and in rate cases. Although adding new customers increases sales, new
14		customer additions also create new costs such as those associated with service lines, meters
15		and in some cases natural gas main extensions. Thus, while adding a new gas customer may
16		increase sales, it is incorrect to view these sales as compensating the utility for lost revenue
17		attributable to energy efficiency.
18	0.	Staff also states in its proposal (see page 41, lines 810-816 of Staff proposal), "Much of
10	C	
19		this conversion/switching is assumed to be associated with the installation of new high
20		efficiency gas heating and hot water installations; thus, the Model reduces the
21		calculated LR accordingly." Are Staff's assumptions correct?
22	A.	No, Staff's assumptions are not correct.

1 Q

Q. Please explain.

2 A. In 2015, Liberty Utilities provided 687 energy efficiency rebates for new high efficiency space heating system installations that qualified for its Residential ENERGY STAR 3 Products program and Commercial & Industrial Small Business and Large Business 4 programs, where both existing natural gas customers and new natural gas customers may be 5 eligible to receive energy efficiency rebates. Of this total, 167 energy efficiency rebates 6 were to new natural gas customers who were previously using heating oil, propane or 7 electricity for space heating, or only 24% (24% = 167/687) of the total rebates provided for 8 9 the programs aforementioned. Also for reference, Liberty Utilities added 681 new natural gas customers in 2015 that were previously using heating oil, propane or electricity for 10 space heating. Therefore, only 25% (25% = 167/681) of new natural gas heating customers 11 who were previously using heating oil, propane or electricity for space heating received 12 energy efficiency heating system rebates as part of their conversion/switch. These 13 conversion customers did not make a significant capital investment to switch from propane 14 or oil heat to natural gas in order to receive an energy efficiency rebate. They switched to 15 natural gas because of the long term financial benefit of natural gas. The energy efficiency 16 17 rebates as designed incented them to install high efficiency natural gas equipment rather than a less expensive, and less efficient model. 18

Q. What explains the low percentage of customer participants in Liberty Utilities energy efficiency programs who were previously using heating oil, propane or electricity for space heating?

A. There are several reasons why new natural gas customers do not choose to participate in the
 company's energy efficiency programs. First, the cost premium of installing a high

efficiency boiler or furnace versus a standard efficiency boiler or furnace can be in the 1 thousands of dollars and is an economic barrier to many customers. Second, there can be 2 physical limitations in a building that prevent the installation of high efficiency equipment 3 due to venting requirements. Lastly, for new customers who are switching from heating oil 4 to natural gas, these customers may have the option of installing a natural gas conversion 5 6 burner kit that allows them to convert to natural gas without having to invest a new heating system. Natural gas conversion burner kits are not an energy efficient option, but they can 7 be an inexpensive option for customers who cannot afford, or do not want to pay, the cost 8 premium of new high efficiency equipment. 9

Similarly, propane heating customers who convert to natural gas may have the option of using their existing heating system by only making minor modifications. This option also does not represent the most energy efficient option for customers, but many also choose it because it is less expensive than the cost of new high efficiency heating equipment.

Q. Do you agree with Staff's proposal that the natural gas utilities LR calculation should be reduced based on new natural gas conversion customer additions?

16 A. No.

17 Q. Please explain the Utilities' position.

A. Staff's proposal for reducing the natural gas utilities LR calculation appears to be based on
 the assumption that current incentives for high efficiency heating systems are primarily
 going to new gas conversion customers, therefore helping to compensate the natural gas
 utilities for lost revenue because without such programs they would be providing energy

efficiency incentives to significantly fewer participants. As described above, this is not the
 case. It is worth noting that Staff did not specifically recommend that the electric utilities
 LR calculation be reduced based on new electric customer additions that are achieved each
 year, which we believe supports our interpretation of the assumptions in their proposal.

5 Similarly, Staff's proposal also appears to assume that the natural gas energy efficiency 6 programs are a driving factor in customer sales activities, without which the natural gas 7 utilities would not be growing their customer bases to the same degree. While the natural 8 gas utilities' new gas sales and marketing activities prioritize messaging about energy 9 efficiency programs, as discussed above, only a relatively small percentage of new gas 10 customers are currently participating in the programs.

Q. What are the potential implications of Staff's recommendation that the natural gas utilities' LR calculation subtract new natural gas conversion customers?

By removing new natural gas conversion customer additions from the LR calculation. Staff 13 A. 14 introduces an element that discourages the natural gas utilities from seeking to convert heating oil, propane and electricity customers to natural gas or promoting energy efficiency 15 16 programs to new natural gas conversion customers. The utilities believe this is contradictory to the desired mission of establishing an EERS in New Hampshire, which is to 17 achieve all cost effective energy efficiency. The most opportune time to motivate and incent 18 19 a customer to install a high efficiency heating system is at the point in time when the customer is added to the natural gas utility. Once a customer installs a system it can be over 20 a decade or longer before that customer may even consider installing a replacement. 21

1	Q.	Are you aware of any utilities in other jurisdictions that are required to subtract new
2		customer additions from their lost revenue calculation?

3 A. No.

4	Q.	Has Liberty Utilities previously provided information to Commission Staff regarding
5		new customer additions and associated energy efficiency rebates?

A. Yes. In Docket No. DE 14-216, Liberty Utilities provided responses to Staff 3-009 and
Staff 3-010 regarding the same issue. Please see Attachment 1 for the discovery responses.

8 V.

V. <u>Savings Targets</u>

9 Q. Please explain why the Utilities' approach to setting savings targets is preferable to the approaches taken by other parties in this docket.

A. The Utilities believe, as stated in their testimony filed December 9, 2015, that savings goals 11 should be developed in a manner where savings goals are established with an ultimate 12 savings target of all achievable cost-effective energy efficiency over time, along with setting 13 annual sales targets over at least a three-year period based upon demonstrated savings 14 potential and the level of energy efficiency funding available to the electric and gas utilities. 15 16 This is more reasonable than using a single data point for establishing savings targets, as suggested in other proposals filed in this case, because it combines bottom-up planning 17 (which focuses on the savings that are reasonable for each individual measure) with a top-18 19 down planning approach (which focuses on what savings are reasonable and achievable for the entire portfolio of energy efficiency programs and the state as a whole). 20 In contrast, other proposals recommend that the Commission should adopt EERS savings 21 targets based solely on the single data point of achievement and/or goals set in other New 22 England states and recommend solely on putting New Hampshire "in-line" with surrounding 23

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1	states. The length of time that the other states have had to ramp up to current goals, and the
2	level of funding that such states have committed to energy efficiency were not demonstrated
3	to have been taken into account.

In addition, the proposals are not taking into account the differences that exist between New
Hampshire and other New England states such as the economic reality that more
commercially and industrially populous neighboring states provide more opportunities for
energy efficiency. For example, Massachusetts has 5.1 times the population of New
Hampshire, but it has 6.5 times the gross domestic product ("GDP") of New Hampshire, and
Connecticut has 2.7 times the population of New Hampshire but 3.6 times the GDP²,

10 providing for greater opportunities for energy efficiency.

11 Nevertheless, New Hampshire compares well with its neighbors in terms of low energy 12 consumption per real dollar of state GDP³, according to the EIA, ranking 10th in the nation

- 13 ahead of Vermont and Maine.
- 14 Similarly, Staff's recommended savings targets rely heavily on "the EERS targets adopted
- by neighboring New England states and those who have adopted EERS in a more gradual
- 16 fashion as exemplified by the Mid-Western States." *Staff Direct Testimony*, pp. 46-47, lines
- 17 924-926. For the reasons stated above, setting savings targets based solely on a comparison
- 18

to other jurisdictions is flawed. In fact, Staff recognized this flaw in its testimony which

² GDP by State - <u>http://bea.gov/iTable/index_regional.cfm</u> State Population Estimates - <u>http://www.census.gov/popest/data/state/totals/2015/index.html</u>

³ http://www.eia.gov/state/seds/data.cfm?incfile=/state/seds/sep_sum/html/rank_use_gdp.html&sid=US

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states that "comparison with neighboring states entails the risk that states do differ." *Staff Direct Testimony*, p. 47, line 928.

3	Q.	In developing its savings targets, did Staff consider other sources of information?
4	A.	Yes. In addition to relying upon savings targets set in other states, Staff indicates that it
5		relied on a review of "the market potential studies prepared by VEIC and GDS". Staff
6		Direct Testimony, p.46, lines 923-924.

Q. Do the Utilities believe that the VEIC and GDS studies provide sufficient or reliable
information for establishing gas savings targets for New Hampshire?

No. The Utilities believe that those resources are also insufficient for establishing New 9 A. Hampshire EERS savings targets for 2017-2019. In fact, Staff acknowledges the limitations 10 of these sources in its testimony stating "Staff understands that potential studies, while 11 providing a suitable road map, do assume targets based on all potential measures being 12 deployed." Staff Direct Testimony, p. 47, lines 926-927). In other words, although cost 13 effective energy efficiency opportunities may be available, if they are not fully deployed, 14 savings goals will not be realized. Therefore, the likelihood of customers' willingness or 15 ability to adopt measures must be taken into consideration when determining savings goals. 16

17 The GDS study entitled "Additional Opportunities for Energy Efficiency in New

Hampshire" is dated. It was completed in 2009, relied upon data from 2008 (or earlier) and
 only projected potential savings out to 2018. Because the study was conducted so long ago
 it does not take into account currently available measures and technologies, federal or state

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efficiency standards, avoided costs, evaluation studies, cost drivers, and state policy objectives as they have developed over time.

3 The other study that Staff reviewed was a study completed by VEIC in 2013, "Increasing *Energy Efficiency in New Hampshire, Realizing our Potential*". Although this study is 4 more recent than the GDS study, it also has limitations as a resource for setting New 5 Hampshire EERS savings targets for 2017 and beyond. The estimated total amount of cost-6 7 effective energy efficiency in New Hampshire identified in the VEIC study was based on "the study team's review of the GDS 2009 NH Potential Study combined with a review of 8 9 savings from energy efficiency programs currently offered in the state". Increasing Energy Efficiency in New Hampshire, Realizing our Potential, Final Report, Vermont Energy 10 11 Investment Corporation, 2013, p. 14, §2.3. Since the VEIC study relied upon the GDS Study from 2009 as well as program experience before 2013, this study does not incorporate 12 13 the most recent past energy efficiency program experience or the most current forward-14 looking information available.

Q. How do the Utilities believe that the Commission should proceed with establishing
 savings goals under an EERS?

A. For the reasons stated above, the Utilities strongly recommend that the Commission not
adopt the savings goals recommended by the other parties as part of this proceeding.

- 19 Instead, the Commission should adopt the goal setting approach outlined by the Utilities in
- 20 their Direct Testimony, *i.e.*, energy savings targets should be developed through a
- 21 comprehensive planning process that includes detailed energy efficiency program plans
- 22 designed to achieve savings targets cost effectively over a three year planning horizon. The

savings targets and program budgets should be based on a specified level of funding
 available to the utilities. In this way, savings goals under an EERS in New Hampshire will
 be set based on a comprehensive analysis that considers demonstrated savings potential and
 the appropriate level of energy efficiency funding necessary to achieve the savings goals.

Q. Please refer to Staff's direct testimony Page 116, line 2198. It appears that Staff is proposing a uniform level of energy efficiency savings for each utility. Should there be a uniform savings target for each utility?

A. No. The Utilities recommend the current process be utilized where separate savings targets 8 9 are defined for each utility. The individual utilities make up disproportionate segments of the target, and those results are then aggregated to reach the overall target set for the state. 10 Since each utility has an unequal proportion of residential, small C&I, or large C&I 11 12 customers, equal savings cannot realistically be expected from all utilities without negatively affecting the costs to achieve these savings. The current process allows the 13 14 limited funding available to the Utilities to be put to best use, i.e. maximum savings at the lowest available cost. 15

16 VI. <u>SBC Rate Components</u>

Q. Please clarify the Utilities' proposal for EERS funding and lost revenue recovery through the SBC.

19 A. All electric distribution companies currently assess the same System Benefits Charge

20 ("SBC") of \$0.00330 per kWh on all delivery kWh for all rate classes. The SBC includes

21 two components: energy efficiency funding (currently \$0.00180 per kWh) and an amount

20

set by statute (currently \$0.00150 per kWh) to fund the statewide Residential Electric

1	Assistance Program. Under the Utilities' proposal, these existing components would
2	continue to be the same across all the distribution companies, recognizing the energy
3	efficiency component may change as determined by the Commission. However, with the
4	exception of the NHEC, a third component, the LRAM rate specific to each company,
5	would be added to the SBC. The LRAM rate is specific to each utility since it depends both
6	on savings measures implemented by each utility and on that utility's distribution rates.
7	When these components are combined, each utility would thus have its own, specific SBC
8	rate, which would be applied on a uniform basis, to all delivery kWh for all rate classes.

9 <u>Conclusion</u>

10 The Utilities continue to vigorously support and implement energy efficiency. Pursuing this 11 lowest cost resource through cost effective measures enables customers to benefit, both in 12 the short and long term. The proposal laid out by the Utilities allows for an EERS to be as 13 successful as possible, while maintaining transparency, balance, and flexibility.